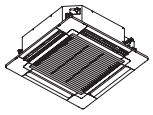
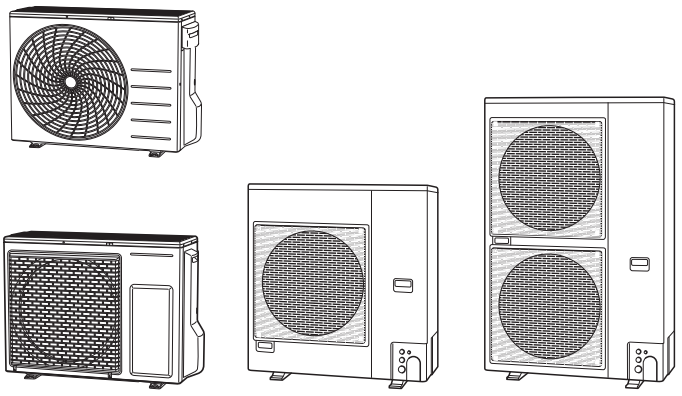
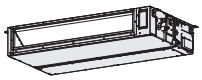
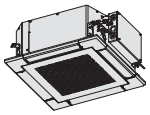
Panasonic

Order No. SBPAC1908013CE

TECHNICAL DATA & SERVICE MANUAL

R32

INVERTER

Indoor Unit		Outdoor Unit
	4-Way Cassette	
	Middle Static Pressure Duct	
	Wall Mounted	
	Ceiling	
	4-Way Cassette 60 × 60	

■ R32 Models

Model No.

Indoor Unit

Type	Indoor Units Type	25	36	45	50	60	71	100	125	140
U3	4-Way Cassette	–	S-3650PU3E			S-6071PU3E		S-1014PU3E		
F3	Middle Static Pressure Duct	–	S-3650PF3E			S-6071PF3E		S-1014PF3E		
K3	Wall Mounted	–	S-3650PK3E			S-6010PK3E			–	–
T3	Ceiling	–	S-3650PT3E			S-6071PT3E		S-1014PT3E		
Y3	4-Way Cassette 60 × 60	S-25PY3E	S-36PY3E	–	S-50PY3E	S-60PY3E	–	–	–	–

Outdoor Unit

Type	Outdoor Unit Type	25	36	50	60	71	100	125	140
PZ3	Single Split (1-phase)	U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A	U-100PZ3E5	U-125PZ3E5	U-140PZ3E5
	Single Split (3-phase)	-	-	-	-	-	U-100PZ3E8	U-125PZ3E8	U-140PZ3E8
PZH3	Single Split (1-phase)	-	U-36PZH3E5	U-50PZH3E5	U-60PZH3E5	U-71PZH3E5	U-100PZH3E5	U-125PZH3E5	U-140PZH3E5
	Single Split (3-phase)	-	-	-	-	U-71PZH3E8	U-100PZH3E8	U-125PZH3E8	U-140PZH3E8

REFERENCE NO. **SM830283-06**

IMPORTANT!
Please Read Before Starting

This air conditioner must be installed by the sales dealer or installer.
This information is provided for use only by authorized persons.

For safe installation and trouble-free operation, you must:

- Read the Installation Instructions of the indoor and outdoor unit as well.
- Carefully read this instruction booklet before beginning.
- This air conditioner is required to have the remote controller which is adaptable to nanoe™X function.
- Follow each installation or repair step exactly as shown.
- This air conditioner shall be installed in accordance with National Wiring Regulations.
- That compliance with national gas regulations shall be observed.
- The product meets the technical requirements of EN/IEC 61000-3-3.
- Pay close attention to all warning and caution notices given in this manual.

WARNING	This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.
CAUTION	This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

If Necessary, Get Help
These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

In Case of Improper Installation
The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

WARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- **(Middle Static Pressure Duct Type)** Auxiliary devices which may be a **potential ignition source** shall not be installed in the duct work. Examples of such **potential ignition sources** are hot surfaces with a temperature exceeding 700°C and electric switching devices.
- **(Middle Static Pressure Duct Type)** For appliances connected via an air duct system to one or more rooms, only auxiliary devices approved by the appliance manufacturer or declared suitable with the refrigerant shall be installed in connecting ductwork.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- The following checks shall be applied to installations using flammable refrigerants. Appliance shall be installed, operated and stored in a room with a floor area larger than [Amin] m^2. As for [Amin], see “CHECK OF DENSITY LIMIT”.

SPECIAL PRECAUTIONS

WARNING When Wiring

ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully see the wiring diagram and “1-10. Electrical Wiring” when wiring. Improper connections and inadequate grounding can cause **accidental injury or death.**
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.
- Provide a power outlet to be used exclusively for each unit.
- Provide a power outlet exclusively for each unit, and full disconnection means having a contact separation by 3 mm in all poles must be incorporated in the fixed wiring in accordance with the wiring rules.
- To prevent possible hazards from insulation failure, the unit must be grounded.

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
  The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.
- This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD).
  Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.

When Transporting

- It need two or more people to carry may out the installation work.
- Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

When storing…

⚠ WARNING

- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- The appliance shall be stored in a room without continuously operating open flames (for example: an operating gas appliance) and ignition sources (for example: an operating electric heater).

- The appliance shall be stored so as to prevent mechanical damage from occurring.

When Installing…

- Select an installation location which is rigid and strong enough to support or hold the unit, and select a location for easy maintenance.
- In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
- An unventilated area where the appliance using flammable refrigerants is installed shall be so constructed that should any refrigerant leak, it will not stagnate so as to create a fire or explosion hazard.

(Middle Static Pressure Duct Type)

- Ducts connected to an appliance shall not contain a **potential ignition source**;
- For appliances connected via an air duct system to one or more rooms, the supply and return air shall be directly ducted to the space.

…In a Room

Properly insulate any tubing run inside a room to prevent “sweating” that can cause dripping and water damage to walls and floors.

⚠ CAUTION Keep the fire alarm and the air outlet at least 1.5 m away from the unit.

…In Moist or Uneven Locations

Use a raised concrete pad or concrete blocks to provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.

…In an Area with High Winds

Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

…In a Snowy Area (for Heat Pump-type Systems)

Install the outdoor unit on a raised platform that is higher than drifting snow. Provide snow vents.

(4-Way Cassette Type, Ceiling Type, 4-Way Cassette 60 × 60 Type)
…At least 2.2m

Indoor unit of this air conditioner shall be installed in a height of at least 2.2 m.

(Middle Static Pressure Duct Type (horizontal installation), Wall Mounted Type)…At least 1.8m

Indoor unit of this air conditioner shall be installed in a height of at least 1.8 m.

…In laundry rooms

Do not install in laundry rooms. Indoor unit is not drip proof.

When Connecting Refrigerant Tubing

Pay particular attention to refrigerant leakages.

⚠ WARNING

- When performing piping work, do not mix air except for specified refrigerant (R32) in refrigeration cycle. It causes capacity down, and risk of explosion and injury due to high tension inside the refrigerant cycle.
- If the refrigerant comes in contact with a flame, it produces toxic gases and fire.
- Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury, etc.

- Ventilate the room immediately in the event of a refrigerant gas leakage during installation. Be careful not to allow contact of the refrigerant gas with a flame as this will cause the generation of toxic gases and fire.
- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leak-free connection.
- Check carefully for leaks before starting the test run.
- Do not leak refrigerant while piping work for an installation or re-installation, and while repairing refrigeration parts. Handle liquid refrigerant carefully as it may cause frostbite.
- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.
- Electronic leak detectors may be used to detect refrigerant leaks but, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the lower flammable limit (LFL) of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

When Servicing

- Contact to the sales dealer or service dealer for a repair.
- Be sure to turn off the power before servicing.
- Turn the power OFF at the main power box (mains), wait at least 10 minutes until it is discharged, then open the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit.

WARNING

- This product must not be modified or disassembled under any circumstances. Modified or disassembled unit may cause fire, electric shock or injury.
- Do not clean inside the indoor and outdoor units by users. Engage authorized dealer or specialist for cleaning.
- In case of malfunction of this appliance, do not repair by yourself. Contact to the sales dealer or service dealer for a repair and disposal.

CAUTION

- Ventilate any enclosed areas when installing or testing the refrigeration system. Leaked refrigerant gas, on contact with fire or heat, can produce dangerously toxic gases.
- Confirm after installation that no refrigerant gas is leaking. If the gas comes in contact with a burning stove, gas water heater, electric room heater or other heat source, it can cause the generation of toxic gases and fire.

Others

When disposal of the product, do follow the precautions in “11. Recovery” on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6, 1-11-2-4-6 and comply with national regulations.

WARNING

- Do not sit or step on the unit. You may fall down accidentally.



CAUTION

- Do not touch the air inlet or the sharp aluminum fins of the outdoor unit. You may get injured.



- Do not stick any object into the FAN CASE.
  You may be injured and the unit may be damaged.





SERVICING

⚠ CAUTION

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, (2) to (6) shall be completed prior to conducting work on the system.

(1) Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

(2) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(3) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(4) If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

(5) No person carrying out work in relation to a refrigerating system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

(6) Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

(7) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.

- The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.

- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

(8) Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised. Initial safety checks shall include:

- That capacitors are discharged. This shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

  NOTE:

  The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

REMOVAL AND EVACUATION

⚠ CAUTION

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used.
  However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:
  - Remove refrigerant.
  - Purge the circuit with inert gas.
  - Evacuate.
  - Purge again with inert gas.
  - Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be “flushed” with Oxygen free nitrogen (OFN) to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and there is ventilation available.

CHARGING PROCEDURES

NOTE:

See “1-11-2. Installation Instructions of Outdoor Unit”.

DECOMMISSIONING

⚠ CAUTION

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
  - Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
  - All personal protective equipment is available and being used correctly.
  - The recovery process is supervised at all times by a competent person.

- Recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.
e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
f) Make sure that cylinder is situated on the scales before recovery takes place.
g) Start the recovery machine and operate in accordance with instructions.
h) Do not overfill cylinders. (No more than 80% volume liquid charge).
i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.

  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging / discharging.

RECOVERY

NOTE:

See “11. Recovery” on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6 and 1-11-2-4-6.

Check of Density Limit

1. Outdoor

1-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

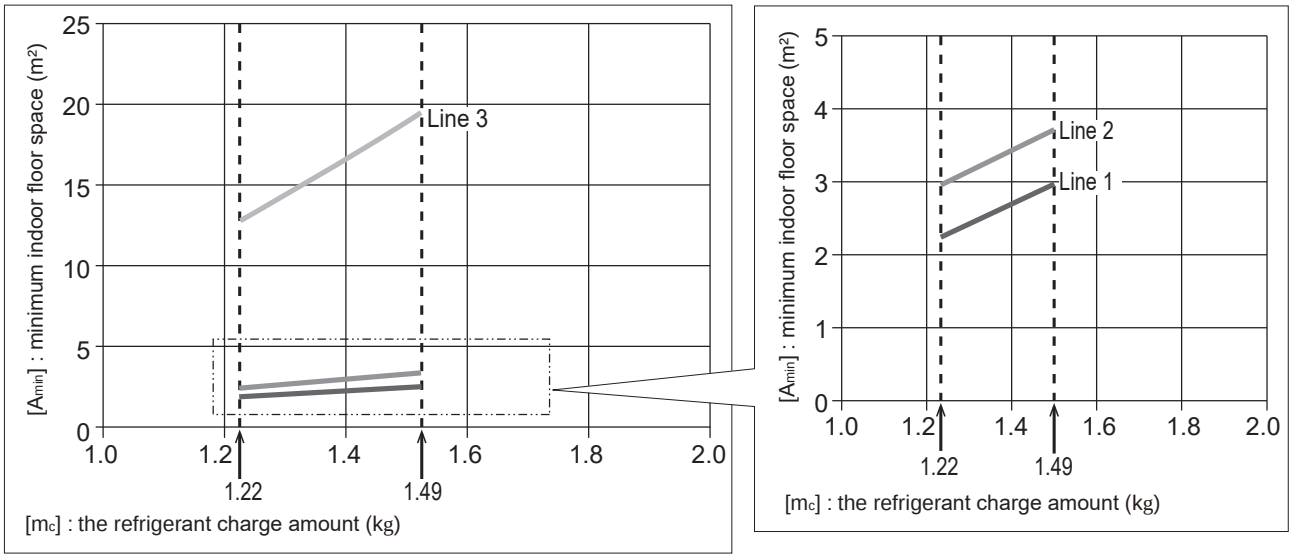


Table 1-1-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$m_c \leq 1.22$: Can be installed
$1.22 < m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-1-1 and below.
Fig. 2-1-1, Table 2-1-1.
Fig. 2-2-1, Table 2-2-2.
Fig. 2-3-1, Table 2-3-1.
Fig. 2-4-1, Table 2-4-1.
Fig. 2-5-1, Table 2-5-1.
$m_c > m_{max}$: Cannot be installed

	U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A
m_{max} (kg)	0.95	0.95	1.33	1.30	1.49

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-1-20.

(conditions : U-71PZ3E5A Total pipe length = 40 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 1.32 \text{ kg} + (0.017 \text{ kg} * (40 \text{ m} - 30 \text{ m})) = 1.49 \text{ kg}$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

1-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

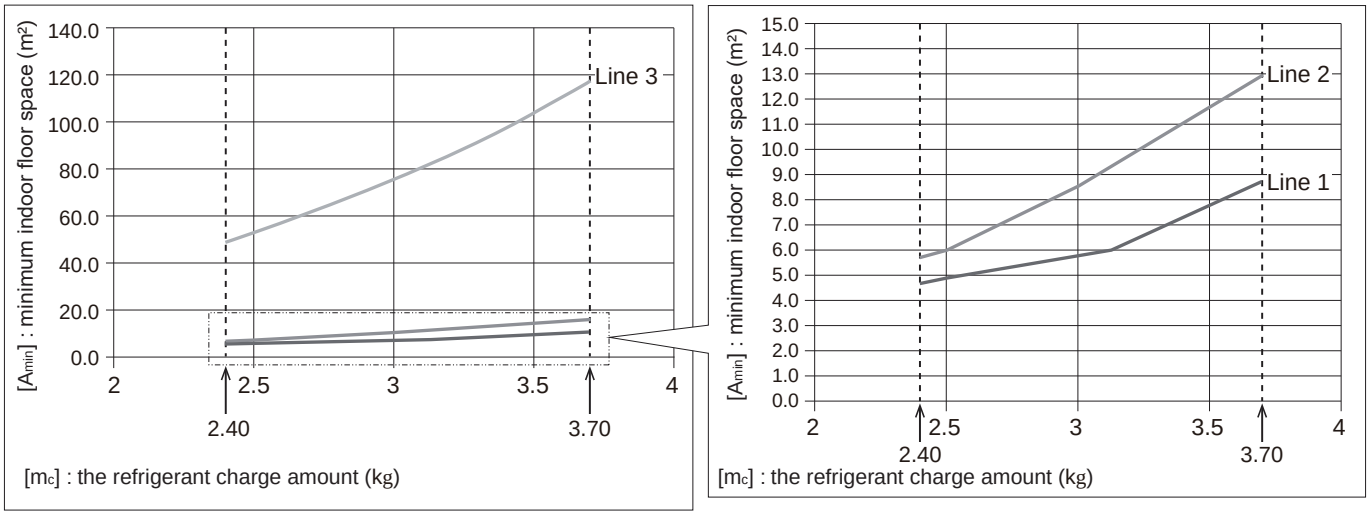


Table 1-2-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$2.40 \leq m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-2-1 and below.
Fig. 2-1-1, Table 2-1-1.
Fig. 2-2-1, Table 2-2-2.
Fig. 2-3-1, Table 2-3-1.
Fig. 2-4-1, Table 2-4-1.
Fig. 2-5-1, Table 2-5-1.

$m_c > m_{max}$: Cannot be installed

	U-100PZ3E5 U-100PZ3E8	U-125PZ3E5, U-140PZ3E5 U-125PZ3E8, U-140PZ3E8
m_{max}	3.30 kg	3.70 kg

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-2-20.

(conditions : U-140PZ3E5 Total pipe length = 50 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 2.80 \text{ kg} + (0.045 \text{ kg} * (50 \text{ m} - 30 \text{ m})) = 3.70 \text{ kg}$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

1-3. U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

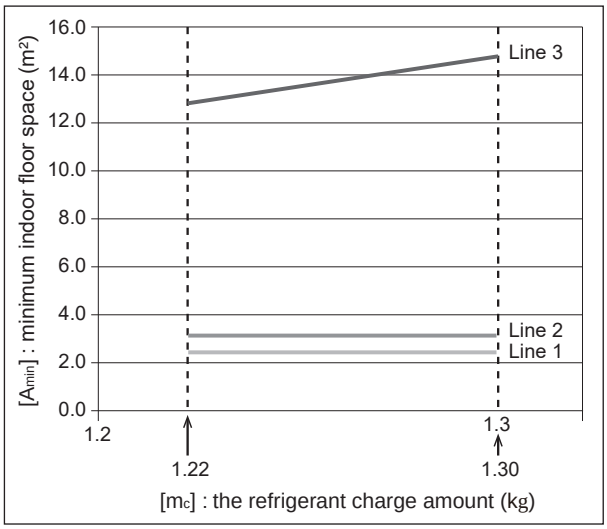


Table 1-3-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$m_c \leq 1.22$: Can be installed
$1.22 < m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-3-1 and below.
Fig. 2-1-1, Table 2-1-1.
Fig. 2-2-1, Table 2-2-2.
Fig. 2-3-1, Table 2-3-1.
Fig. 2-4-1, Table 2-4-1.
Fig. 2-5-1, Table 2-5-1.
$m_c > m_{max}$: Cannot be installed

	U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
m_{max} (kg)	1.28	1.28	1.30

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-3-19.

(conditions : U-60PZH3E5 Total pipe length = 40 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 1.15 \text{ kg} + (0.015 \text{ kg} * (40 \text{ m} - 30 \text{ m})) = 1.30 \text{ kg}$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

1-4. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

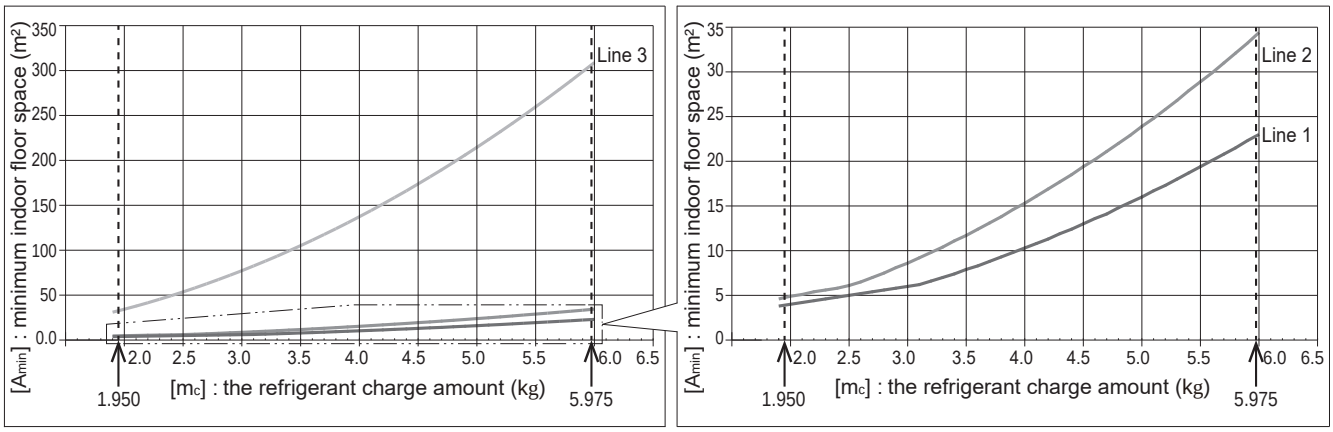


Table 1-4-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$1.950 \leq m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-4-1 and below.
Fig. 2-1-1, Table 2-1-1.
Fig. 2-2-1, Table 2-2-2.
Fig. 2-3-1, Table 2-3-1.
Fig. 2-4-1, Table 2-4-1.
Fig. 2-5-1, Table 2-5-1.
$m_c > m_{max}$: Cannot be installed

	U-71PZH3E5 U-71PZH3E8	U-100PZH3E5, U-125PZH3E5, U-140PZH3E5 U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
m_{max}	2.850 kg	5.975 kg

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-4-19.

(conditions : U-71PZH3E5 (TWIN) Total pipe length = 40 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 1.95 \text{ kg} + (0.045 \text{ kg} * (40 \text{ m} - 30 \text{ m})) = 2.400 \text{ kg}$$

(conditions : U-125PZH3E5 (TRIPLE) Total pipe length = 65 m)

- Please see "7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS-Refrigerant charging" on page 1-11-2-4-23.

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 3.05 \text{ kg} + (0.045 \text{ kg} * (65 \text{ m} - 20 \text{ m})) = 5.075 \text{ kg}$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

2. Indoor

2-1. 4-Way Cassette Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see "4. REFRIGERANT INSTALLATION" on page 1-11-2-1-20, 1-11-2-2-20, 1-11-2-3-19 and 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

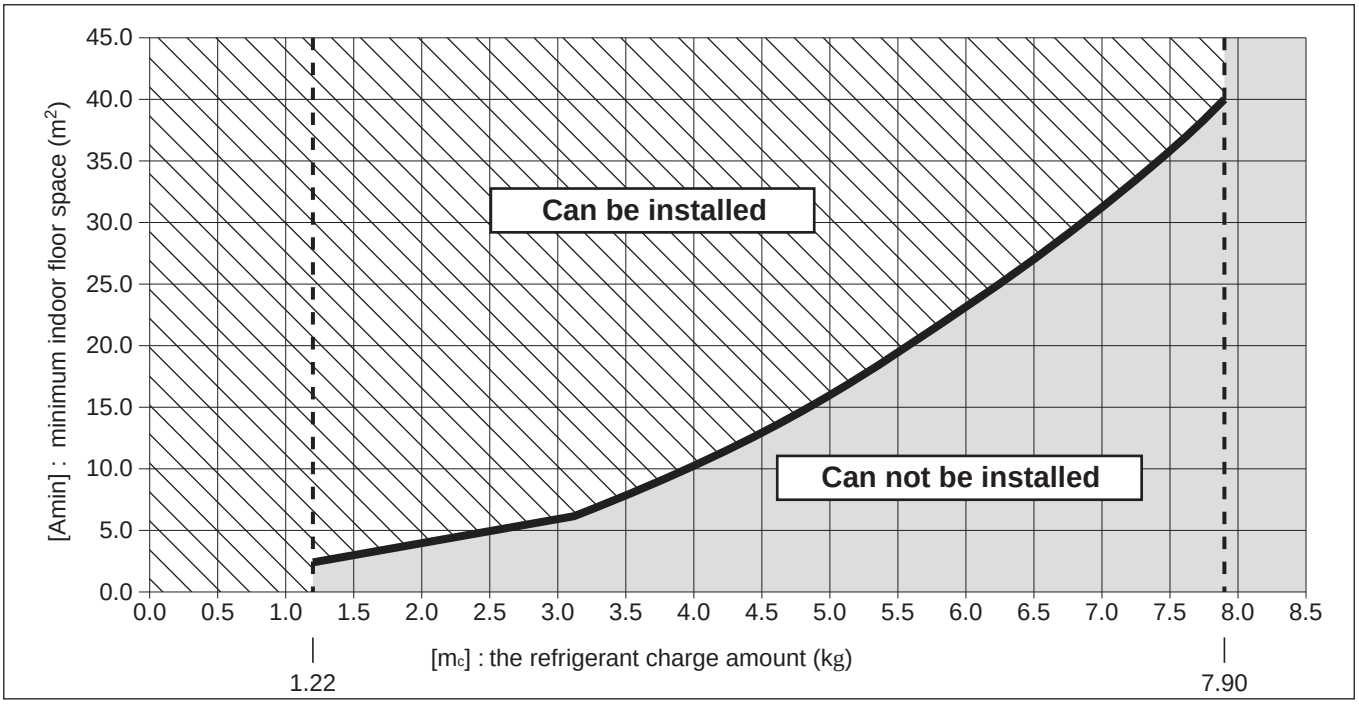


Fig. 2-1-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).
[Amin] : Minimum indoor floor space (m^2)

Table 2-1-1

[m_c]	[Amin]	[m_c]	[Amin]	[m_c]	[Amin]	[m_c]	[Amin]
1.22	2.5	2.9	5.8	4.6	13.6	6.3	25.4
1.3	2.6	3.0	6.0	4.7	14.1	6.4	26.2
1.4	2.8	3.1	6.2	4.8	14.8	6.5	27.0
1.5	3.0	3.2	6.6	4.9	15.4	6.6	27.9
1.6	3.2	3.3	7.0	5.0	16.0	6.7	28.7
1.7	3.4	3.4	7.4	5.1	16.7	6.8	29.6
1.8	3.6	3.5	7.9	5.2	17.3	6.9	30.4
1.9	3.8	3.6	8.3	5.3	18.0	7.0	31.3
2.0	4.0	3.7	8.8	5.4	18.7	7.1	32.2
2.1	4.2	3.8	9.3	5.5	19.4	7.2	33.1
2.2	4.4	3.9	9.8	5.6	20.1	7.3	34.1
2.3	4.6	4.0	10.3	5.7	20.8	7.4	35.0
2.4	4.8	4.1	10.8	5.8	21.5	7.5	35.9
2.5	5.0	4.2	11.3	5.9	22.3	7.6	36.9
2.6	5.2	4.3	11.9	6.0	23.0	7.7	37.9
2.7	5.4	4.4	12.4	6.1	23.8	7.8	38.9
2.8	5.6	4.5	13.0	6.2	24.6	7.9	39.9

2-2. Middle Static Pressure Duct Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

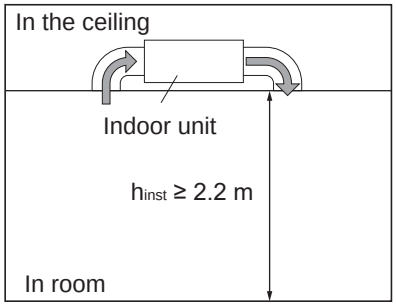
Regarding the refrigerant charge amount [m_c] used in the appliance, see "4. REFRIGERANT INSTALLATION" on page 1-11-2-1-20, 1-11-2-2-20, 1-11-2-3-19 and 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

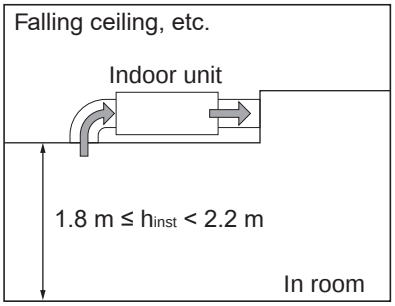
Table 2-2-1

Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	Middle Static Pressure Duct (Horizontal installation)	Line 1
1.8 m $\leq h_{inst} <$ 2.2 m	Middle Static Pressure Duct (Horizontal installation)	Line 2
$h_{inst} <$ 1.8 m	Middle Static Pressure Duct (Vertical installation)	Line 3

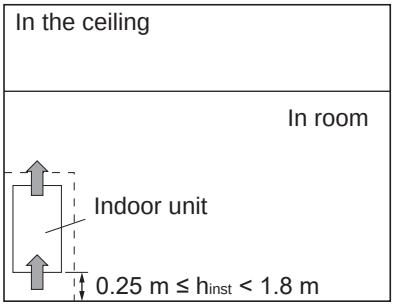
Line 1



Line 2



Line 3



The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:
Use the graph or Table 2-2-2 to determine the minimum indoor floor space.

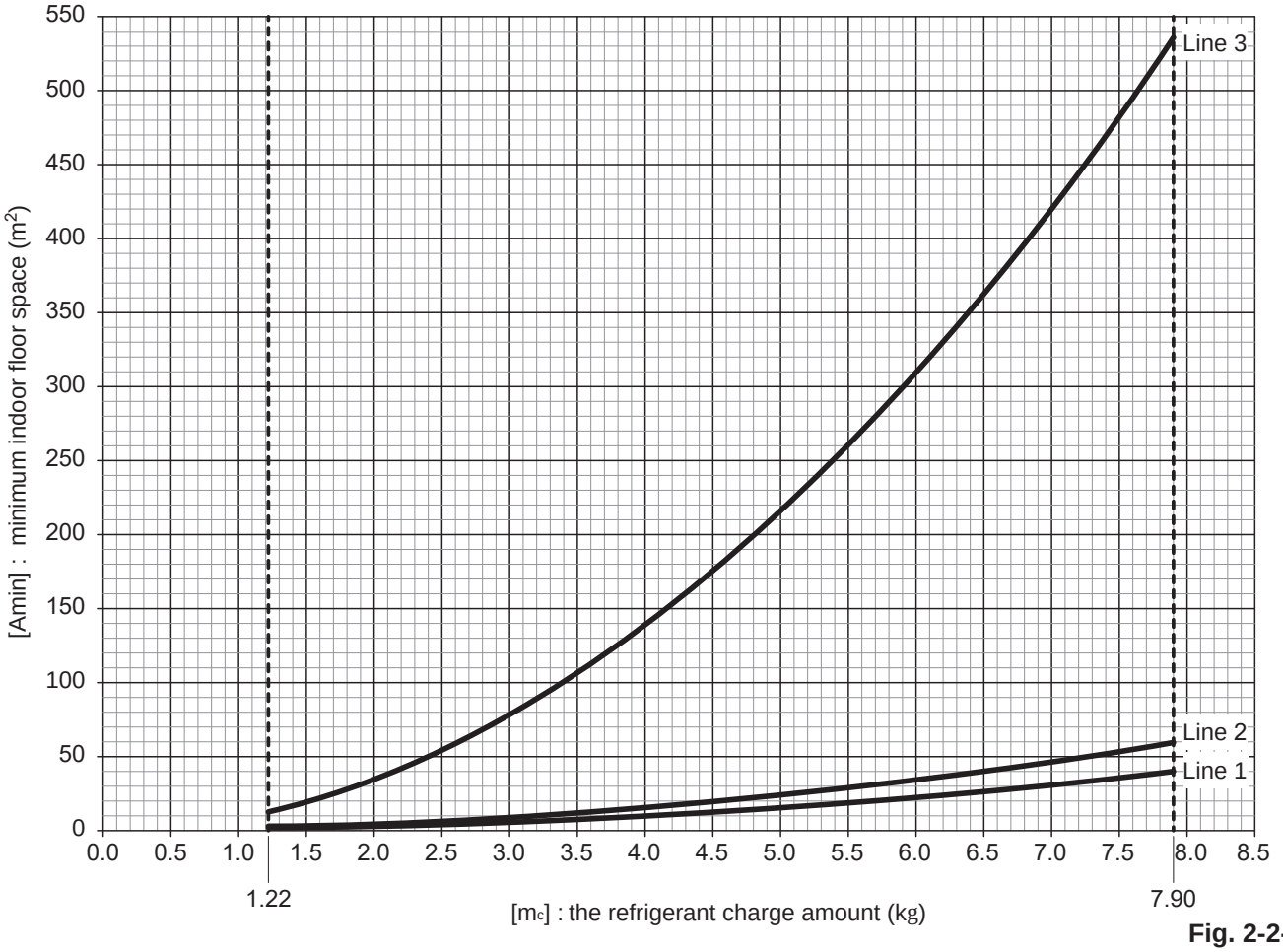


Fig. 2-2-1

Table 2-2-2

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
1.22	2.5	3.0	12.8
1.3	2.6	3.2	14.5
1.4	2.8	3.4	16.8
1.5	3.0	3.7	19.3
1.6	3.2	3.9	22.0
1.7	3.4	4.2	24.8
1.8	3.6	4.4	27.8
1.9	3.8	4.6	31.0
2.0	4.0	4.9	34.3
2.1	4.2	5.1	37.8
2.2	4.4	5.4	41.5
2.3	4.6	5.6	45.4
2.4	4.8	5.8	49.4
2.5	5.0	6.1	53.6
2.6	5.2	6.5	58.0
2.7	5.4	7.0	62.6
2.8	5.6	7.5	67.3
2.9	5.8	8.1	72.2
3.0	6.0	8.6	77.2
3.1	6.2	9.2	82.5
3.2	6.6	9.8	87.9
3.3	7.0	10.4	93.4
3.4	7.4	11.1	99.2

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
3.5	7.9	11.7	105.1
3.6	8.3	12.4	111.2
3.7	8.8	13.1	117.5
3.8	9.3	13.8	123.9
3.9	9.8	14.6	130.5
4.0	10.3	15.3	137.3
4.1	10.8	16.1	144.2
4.2	11.3	16.9	151.4
4.3	11.9	17.7	158.7
4.4	12.4	18.5	166.1
4.5	13.0	19.4	173.8
4.6	13.6	20.2	181.6
4.7	14.1	21.1	189.5
4.8	14.8	22.0	197.7
4.9	15.4	22.9	206.0
5.0	16.0	23.9	214.5
5.1	16.7	24.8	223.2
5.2	17.3	25.8	232.0
5.3	18.0	26.8	241.0
5.4	18.7	27.9	250.2
5.5	19.4	28.9	259.6
5.6	20.1	29.9	269.1
5.7	20.8	31.0	278.8

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
5.8	21.5	32.1	288.6
5.9	22.3	33.2	298.7
6.0	23.0	34.4	308.9
6.1	23.8	35.5	319.3
6.2	24.6	36.7	329.8
6.3	25.4	37.9	340.6
6.4	26.2	39.1	351.5
6.5	27.0	40.3	362.5
6.6	27.9	41.6	373.8
6.7	28.7	42.8	385.2
6.8	29.6	44.1	396.8
6.9	30.4	45.4	408.5
7.0	31.3	46.8	420.4
7.1	32.2	48.1	432.5
7.2	33.1	49.5	444.8
7.3	34.1	50.9	457.3
7.4	35.0	52.3	469.9
7.5	35.9	53.7	482.7
7.6	36.9	55.1	495.6
7.7	37.9	56.6	508.7
7.8	38.9	58.1	522.0
7.9	39.9	59.6	535.5

$m_c \leq 1.22$: Can be installed
$1.22 < m_c \leq m_{max}$: Can be installed above “Density Limit Line” *1
*1 See Table 2-2-1 and the Fig. 2-2-1 when deciding “Density Limit Line”.

2-3. Wall Mounted Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20, 1-11-2-2-20, 1-11-2-3-19 and 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

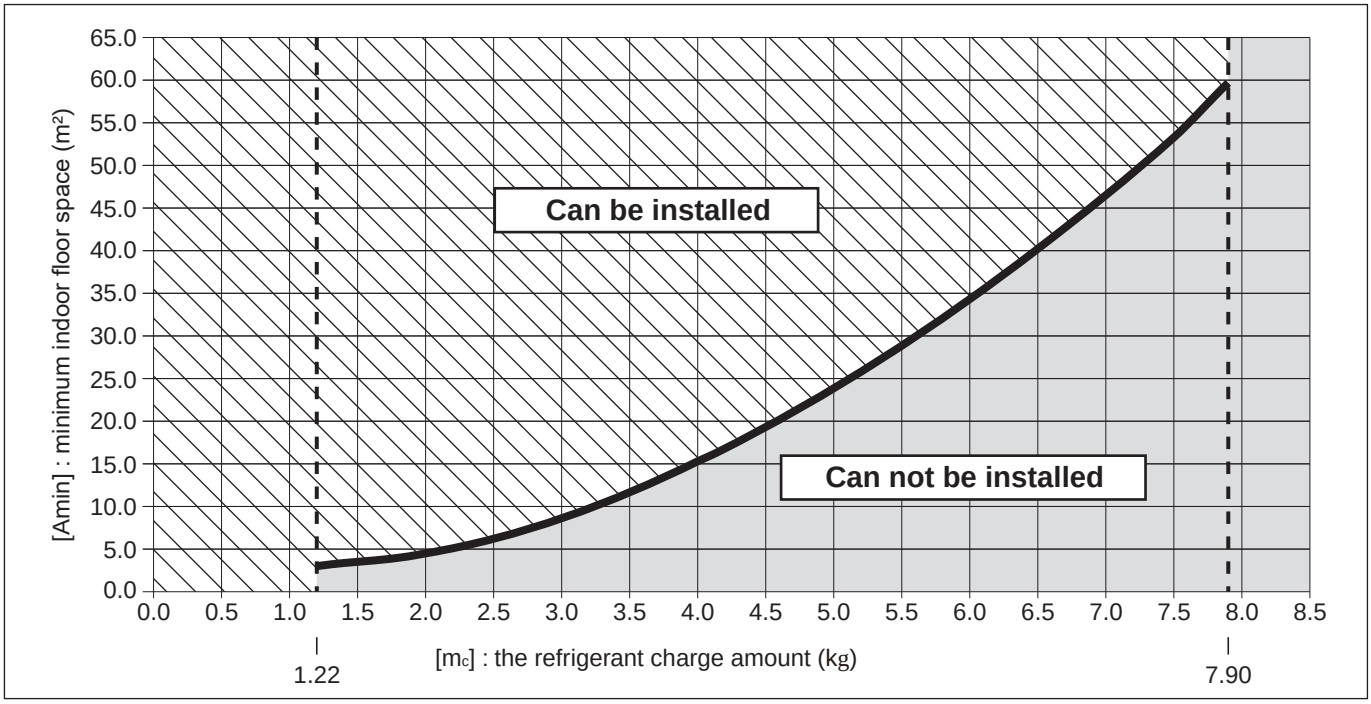


Fig. 2-3-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 2-3-1

[m_c]	[Amin]
1.22	3.0
1.3	3.2
1.4	3.4
1.5	3.7
1.6	3.9
1.7	4.2
1.8	4.4
1.9	4.6
2.0	4.9
2.1	5.1
2.2	5.4
2.3	5.6
2.4	5.9
2.5	6.1
2.6	6.4
2.7	6.9
2.8	7.5

[m_c]	[Amin]
2.9	8.0
3.0	8.6
3.1	9.1
3.2	9.7
3.3	10.3
3.4	11.0
3.5	11.6
3.6	12.3
3.7	13.0
3.8	13.7
3.9	14.4
4.0	15.2
4.1	15.9
4.2	16.7
4.3	17.5
4.4	18.4
4.5	19.2

[m_c]	[Amin]
4.6	20.1
4.7	20.9
4.8	21.8
4.9	22.8
5.0	23.7
5.1	24.6
5.2	25.6
5.3	26.6
5.4	27.6
5.5	28.7
5.6	29.7
5.7	30.8
5.8	31.9
5.9	33.0
6.0	34.1
6.1	35.2
6.2	36.4

[m_c]	[Amin]
6.3	37.6
6.4	38.8
6.5	40.0
6.6	41.2
6.7	42.5
6.8	43.8
6.9	45.1
7.0	46.4
7.1	47.7
7.2	49.1
7.3	50.4
7.4	51.8
7.5	53.2
7.6	54.7
7.7	56.1
7.8	57.6
7.9	59.1

2-4. Ceiling Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20, 1-11-2-2-20, 1-11-2-3-19 and 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

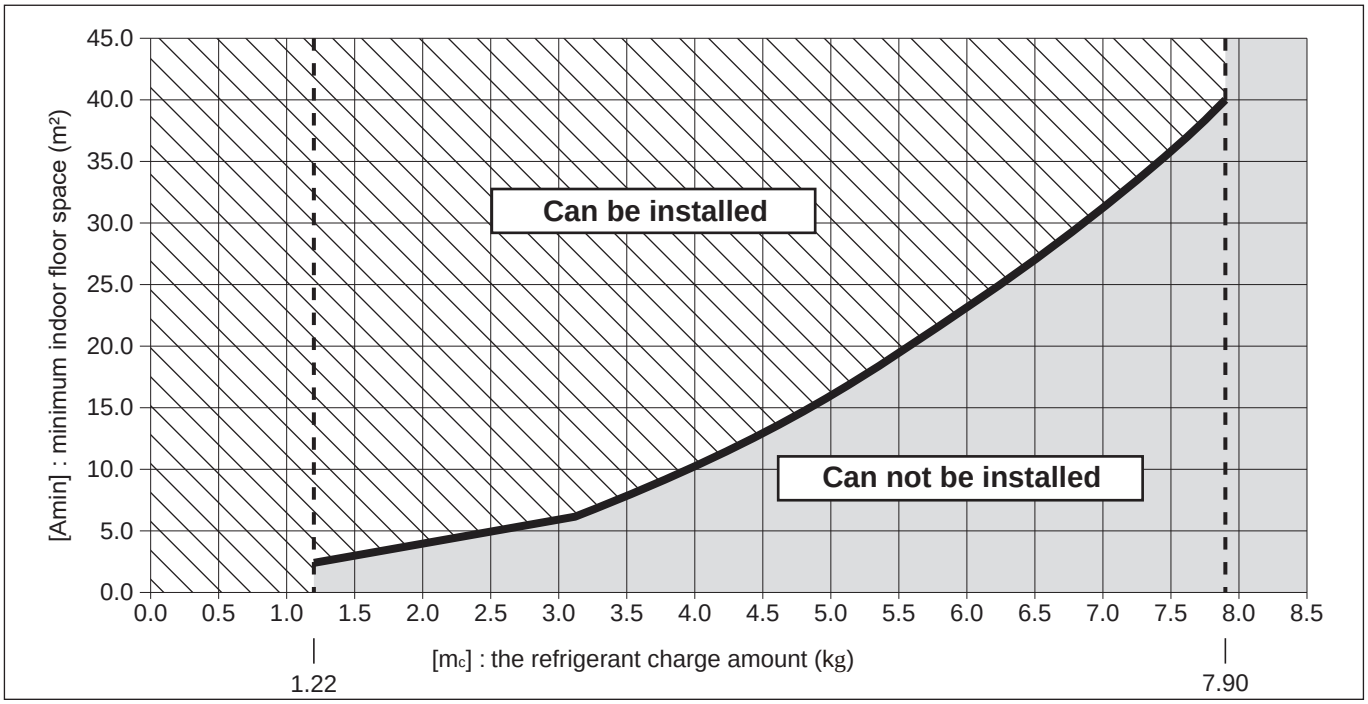


Fig. 2-4-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 2-4-1

[m_c]	[Amin]	[m_c]	[Amin]	[m_c]	[Amin]	[m_c]	[Amin]
1.22	2.5	2.9	5.8	4.6	13.4	6.3	25.2
1.3	2.6	3.0	6.0	4.7	14.0	6.4	26.0
1.4	2.8	3.1	6.2	4.8	14.6	6.5	26.8
1.5	3.0	3.2	6.5	4.9	15.2	6.6	27.6
1.6	3.2	3.3	6.9	5.0	15.9	6.7	28.5
1.7	3.4	3.4	7.4	5.1	16.5	6.8	29.3
1.8	3.6	3.5	7.8	5.2	17.2	6.9	30.2
1.9	3.8	3.6	8.3	5.3	17.8	7.0	31.1
2.0	4.0	3.7	8.7	5.4	18.5	7.1	32.0
2.1	4.2	3.8	9.2	5.5	19.2	7.2	32.9
2.2	4.4	3.9	9.7	5.6	19.9	7.3	33.8
2.3	4.6	4.0	10.2	5.7	20.6	7.4	34.7
2.4	4.8	4.1	10.7	5.8	21.3	7.5	35.7
2.5	5.0	4.2	11.2	5.9	22.1	7.6	36.6
2.6	5.2	4.3	11.8	6.0	22.8	7.7	37.6
2.7	5.4	4.4	12.3	6.1	23.6	7.8	38.6
2.8	5.6	4.5	12.9	6.2	24.4	7.9	39.6

2-5. 4-Way Cassette 60 × 60 Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space in each room of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20, 1-11-2-2-20, 1-11-2-3-19 and 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

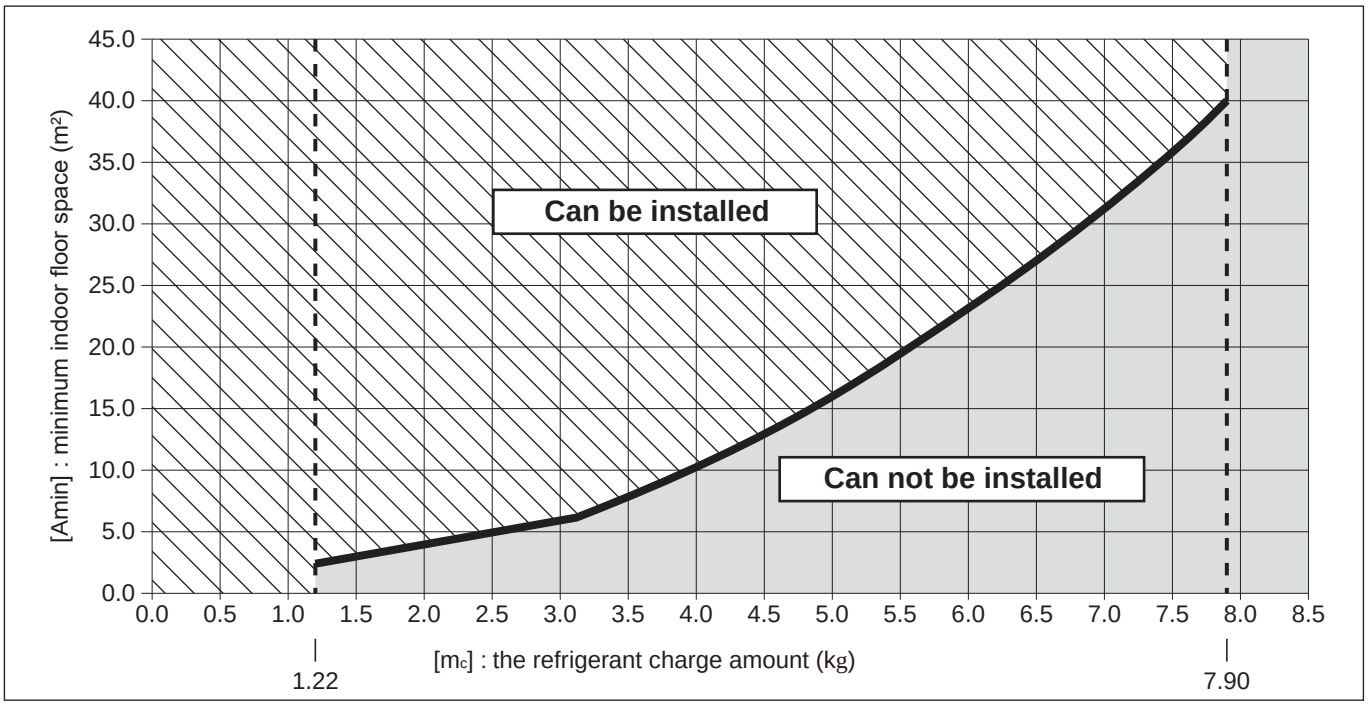


Fig. 2-5-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 2-5-1

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8
1.5	3.0
1.6	3.2
1.7	3.4
1.8	3.6
1.9	3.8
2.0	4.0
2.1	4.2
2.2	4.4
2.3	4.6
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6

[m_c]	[Amin]
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.5
3.3	6.9
3.4	7.4
3.5	7.8
3.6	8.3
3.7	8.7
3.8	9.2
3.9	9.7
4.0	10.2
4.1	10.7
4.2	11.2
4.3	11.8
4.4	12.3
4.5	12.9

[m_c]	[Amin]
4.6	13.4
4.7	14.0
4.8	14.6
4.9	15.2
5.0	15.9
5.1	16.5
5.2	17.2
5.3	17.8
5.4	18.5
5.5	19.2
5.6	19.9
5.7	20.6
5.8	21.3
5.9	22.1
6.0	22.8
6.1	23.6
6.2	24.4

[m_c]	[Amin]
6.3	25.2
6.4	26.0
6.5	26.8
6.6	27.6
6.7	28.5
6.8	29.3
6.9	30.2
7.0	31.1
7.1	32.0
7.2	32.9
7.3	33.8
7.4	34.7
7.5	35.7
7.6	36.6
7.7	37.6
7.8	38.6
7.9	39.6

Precautions for Installation Using New Refrigerant

1. Care regarding tubing

1-1. Process tubing

- Material: Use seamless phosphorous deoxidized copper tube for refrigeration. Wall thickness shall comply with the applicable legislation. The minimal wall thickness must be in accordance with the table below.
- Tubing size: Be sure to use the sizes indicated in the table below.
  For the renewal tubing size, see “INCASE OF REUSING EXISTING REFRIGERANT PIPING” on page 1-11-2-1-22, 1-11-2-2-22, 1-11-2-3-21 and 1-11-2-4-21.
- Use a tube cutter when cutting the tubing, and be sure to remove any flash. This also applies to distribution joints (optional).
- When bending tubing, use a bending radius that is 4 times the outer diameter of the tubing or larger.

CAUTION **Use sufficient care in handling the tubing. Seal the tubing ends with caps or tape to prevent dirt, moisture, or other foreign substances from entering. These substances can result in system malfunction.**

Unit: mm

Material		Temper - O (Soft copper tube)			
Copper tube	Outer diameter	6.35	9.52	12.7	15.88
	Wall thickness	0.8	0.8	0.8	1.0

1-2. Prevent impurities including water, dust and oxide from entering the tubing. Impurities can cause R32 refrigerant deterioration and compressor defects. Due to the features of the refrigerant and refrigerating machine oil, the prevention of water and other impurities becomes more important than ever.

2. Be sure to recharge the refrigerant only in liquid form.

2-1. Since refrigerant composition changes and performance decreases when gas leaks, collect the remaining refrigerant and recharge the required total amount of new refrigerant after fixing the leak.

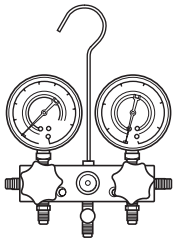
3. Different tools required

3-1. Tool specifications have been changed due to the characteristics of R32.
Some tools for R22- and R407C-type refrigerant systems cannot be used.

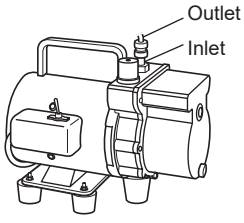
Item	Different tools? (From R22 and R407C)	R410A tools compatible with R32?	Remarks
Manifold gauge	Yes	Yes	Types of refrigerant, refrigerating machine oil, and pressure gauge are different.
Charge hose	Yes	Yes	To resist higher pressure, material must be changed.
Vacuum pump	Yes	Yes	Use a conventional vacuum pump if it is equipped with a check valve. If it has no check valve, purchase and attach a vacuum pump adapter.
Leak detector	Yes	Yes	Leak detectors for CFC and HCFC that react to chlorine do not function because R32 and R410A contains no chlorine. Leak detectors for HFC can be used for R32 and R410A.
Flaring oil	Yes	Yes	For systems that use R22, apply mineral oil (Suniso oil) to the flare nuts on the tubing to prevent refrigerant leakage. For machines that use R32 or R410A, apply synthetic oil (ether oil) to the flare nuts.

* Using tools for R22 and R407C can cause defects.

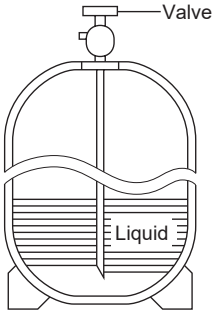
Manifold gauge



Vacuum pump



Single-outlet valve
(with siphon tube)
Liquid refrigerant should be recharged with the cylinder standing on end as shown.



Important Information Regarding The Refrigerant Used

This product contains fluorinated greenhouse gases. Do not vent gases into the atmosphere.

Refrigerant type: R32

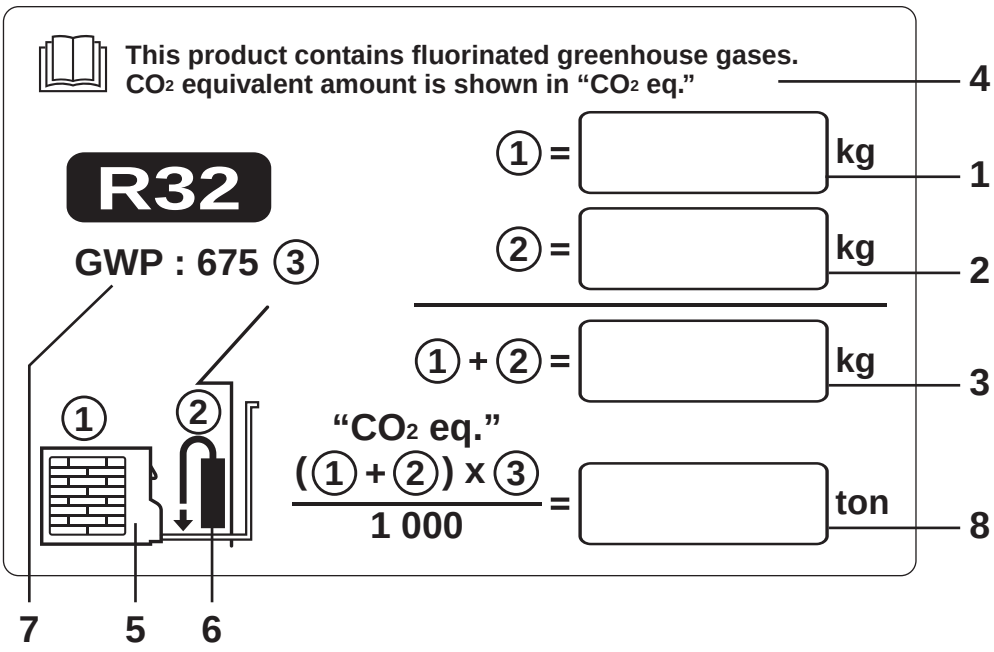
GWP(1) value: 675

(1)GWP = global warming potential

Periodical inspections for refrigerant leaks may be required depending on European or local legislation.
Please contact your local dealer for more information.

Fill in the blanks below with the indelible ink pens.

- ①: the factory refrigerant charge of the product
- ②: the additional refrigerant amount charged in the field
- ① +② : the total refrigerant charge
- (①+②) x③/1000: CO_2 equivalent in tons; multiply the total refrigerant charge by GWP value, then divided by 1000.



1. Factory refrigerant charge of the product: see unit name plate
2. Additional refrigerant amount charged in the field*
3. Total refrigerant charge
4. Contains fluorinated greenhouse gases
5. Outdoor unit
6. Refrigerant cylinder and manifold for charging
7. GWP(global warming potential) of the refrigerant used in this product
8. CO_2 equivalent of fluorinated greenhouse gases contained in this product

* See "4. REFRIGERANT INSTALLATION" on page 1-11-2-1-20, 1-11-2-2-20, 1-11-2-3-19 and 1-11-2-4-19.

Combination of Indoor and Outdoor Units

PZ3

Single-phase

	36	50	60	71	100	125	140
U3	S-3650PU3E (S-3650PU3E(36)) U-36PZ3E5	S-3650PU3E (S-3650PU3E(50)) U-50PZ3E5	S-6071PU3E (S-6071PU3E(60)) U-60PZ3E5A	S-6071PU3E (S-6071PU3E(71)) U-71PZ3E5A	S-1014PU3E (S-1014PU3E(100)) U-100PZ3E5	S-1014PU3E (S-1014PU3E(125)) U-125PZ3E5	S-1014PU3E (S-1014PU3E(140)) U-140PZ3E5
		S-3650PU3E ×2 (S-3650PU3E(50)) U-100PZ3E5	S-6071PU3E ×2 (S-6071PU3E(60)) U-125PZ3E5	S-6071PU3E ×2 (S-6071PU3E(71)) U-140PZ3E5			
F3	S-3650PF3E (S-3650PF3E(36)) U-36PZ3E5	S-3650PF3E (S-3650PF3E(50)) U-50PZ3E5	S-6071PF3E (S-6071PF3E(60)) U-60PZ3E5A	S-6071PF3E (S-6071PF3E(71)) U-71PZ3E5A	S-1014PF3E (S-1014PF3E(100)) U-100PZ3E5	S-1014PF3E (S-1014PF3E(125)) U-125PZ3E5	S-1014PF3E (S-1014PF3E(140)) U-140PZ3E5
		S-3650PF3E ×2 (S-3650PF3E(50)) U-100PZ3E5	S-6071PF3E ×2 (S-6071PF3E(60)) U-125PZ3E5	S-6071PF3E ×2 (S-6071PF3E(71)) U-140PZ3E5			
K3	S-3650PK3E (S-3650PK3E(36)) U-36PZ3E5	S-3650PK3E (S-3650PK3E(50)) U-50PZ3E5	S-6010PK3E (S-6010PK3E(60)) U-60PZ3E5A	S-6010PK3E (S-6010PK3E(71)) U-71PZ3E5A	S-6010PK3E (S-6010PK3E(100)) U-100PZ3E5		
		S-3650PK3E ×2 (S-3650PK3E(50)) U-100PZ3E5	S-6010PK3E ×2 (S-6010PK3E(60)) U-125PZ3E5	S-6010PK3E ×2 (S-6010PK3E(71)) U-140PZ3E5			
T3	S-3650PT3E (S-3650PT3E(36)) U-36PZ3E5	S-3650PT3E (S-3650PT3E(50)) U-50PZ3E5	S-6071PT3E (S-6071PT3E(60)) U-60PZ3E5A	S-6071PT3E (S-6071PT3E(71)) U-71PZ3E5A	S-1014PT3E (S-1014PT3E(100)) U-100PZ3E5	S-1014PT3E (S-1014PT3E(125)) U-125PZ3E5	S-1014PT3E (S-1014PT3E(140)) U-140PZ3E5
		S-3650PT3E ×2 (S-3650PT3E(50)) U-100PZ3E5	S-6071PT3E ×2 (S-6071PT3E(60)) U-125PZ3E5	S-6071PT3E ×2 (S-6071PT3E(71)) U-140PZ3E5			
Y3	S-36PY3E U-36PZ3E5	S-50PY3E U-50PZ3E5	S-60PY3E U-60PZ3E5A				
		S-50PY3E ×2 U-100PZ3E5	S-60PY3E ×2 U-125PZ3E5				

	25
Y3	S-25PY3E U-25PZ3E5

PZ3

3-phase

	36	50	60	71	100	125	140
U3					S-1014PU3E (S-1014PU3E(100)) U-100PZ3E8	S-1014PU3E (S-1014PU3E(125)) U-125PZ3E8	S-1014PU3E (S-1014PU3E(140)) U-140PZ3E8
		S-3650PU3E ×2 (S-3650PU3E(50)) U-100PZ3E8	S-6071PU3E ×2 (S-6071PU3E(60)) U-125PZ3E8	S-6071PU3E ×2 (S-6071PU3E(71)) U-140PZ3E8			
F3					S-1014PF3E (S-1014PF3E(100)) U-100PZ3E8	S-1014PF3E (S-1014PF3E(125)) U-125PZ3E8	S-1014PF3E (S-1014PF3E(140)) U-140PZ3E8
		S-3650PF3E ×2 (S-3650PF3E(50)) U-100PZ3E8	S-6071PF3E ×2 (S-6071PF3E(60)) U-125PZ3E8	S-6071PF3E ×2 (S-6071PF3E(71)) U-140PZ3E8			
K3					S-6010PK3E (S-6010PK3E(100)) U-100PZ3E8		
		S-3650PK3E ×2 (S-3650PK3E(50)) U-100PZ3E8	S-6010PK3E ×2 (S-6010PK3E(60)) U-125PZ3E8	S-6010PK3E ×2 (S-6010PK3E(71)) U-140PZ3E8			
T3					S-1014PT3E (S-1014PT3E(100)) U-100PZ3E8	S-1014PT3E (S-1014PT3E(125)) U-125PZ3E8	S-1014PT3E (S-1014PT3E(140)) U-140PZ3E8
		S-3650PT3E ×2 (S-3650PT3E(50)) U-100PZ3E8	S-6071PT3E ×2 (S-6071PT3E(60)) U-125PZ3E8	S-6071PT3E ×2 (S-6071PT3E(71)) U-140PZ3E8			
Y3		S-50PY3E ×2 U-100PZ3E8	S-60PY3E ×2 U-125PZ3E8				

PZH3

Single-phase

	36	45	50	60	71	100	125	140
U3	S-3650PU3E (S-3650PU3E(36)) U-36PZH3E5		S-3650PU3E (S-3650PU3E(50)) U-50PZH3E5	S-6071PU3E (S-6071PU3E(60)) U-60PZH3E5	S-6071PU3E (S-6071PU3E(71)) U-71PZH3E5	S-1014PU3E (S-1014PU3E(100)) U-100PZH3E5	S-1014PU3E (S-1014PU3E(125)) U-125PZH3E5	S-1014PU3E (S-1014PU3E(140)) U-140PZH3E5
	S-3650PU3E ×2 (S-3650PU3E(36)) U-71PZH3E5		S-3650PU3E ×2 (S-3650PU3E(50)) U-100PZH3E5	S-6071PU3E ×2 (S-6071PU3E(60)) U-125PZH3E5	S-6071PU3E ×2 (S-6071PU3E(71)) U-140PZH3E5			
	S-3650PU3E ×3 (S-3650PU3E(36)) U-100PZH3E5	S-3650PU3E ×3 (S-3650PU3E(45)) U-125PZH3E5	S-3650PU3E ×3 (S-3650PU3E(50)) U-140PZH3E5					
	S-3650PU3E ×4 (S-3650PU3E(36)) U-125PZH3E5							
F3	S-3650PF3E (S-3650PF3E(36)) U-36PZH3E5		S-3650PF3E (S-3650PF3E(50)) U-50PZH3E5	S-6071PF3E (S-6071PF3E(60)) U-60PZH3E5	S-6071PF3E (S-6071PF3E(71)) U-71PZH3E5	S-1014PF3E (S-1014PF3E(100)) U-100PZH3E5	S-1014PF3E (S-1014PF3E(125)) U-125PZH3E5	S-1014PF3E (S-1014PF3E(140)) U-140PZH3E5
	S-3650PF3E ×2 (S-3650PF3E(36)) U-71PZH3E5		S-3650PF3E ×2 (S-3650PF3E(50)) U-100PZH3E5	S-6071PF3E ×2 (S-6071PF3E(60)) U-125PZH3E5	S-6071PF3E ×2 (S-6071PF3E(71)) U-140PZH3E5			
	S-3650PF3E ×3 (S-3650PF3E(36)) U-100PZH3E5	S-3650PF3E ×3 (S-3650PF3E(45)) U-125PZH3E5	S-3650PF3E ×3 (S-3650PF3E(50)) U-140PZH3E5					
	S-3650PF3E ×4 (S-3650PF3E(36)) U-125PZH3E5							
K3	S-3650PK3E (S-3650PK3E(36)) U-36PZH3E5		S-3650PK3E (S-3650PK3E(50)) U-50PZH3E5	S-6010PK3E (S-6010PK3E(60)) U-60PZH3E5	S-6010PK3E (S-6010PK3E(71)) U-71PZH3E5	S-6010PK3E (S-6010PK3E(100)) U-100PZH3E5		
	S-3650PK3E ×2 (S-3650PK3E(36)) U-71PZH3E5		S-3650PK3E ×2 (S-3650PK3E(50)) U-100PZH3E5	S-6010PK3E ×2 (S-6010PK3E(60)) U-125PZH3E5	S-6010PK3E ×2 (S-6010PK3E(71)) U-140PZH3E5			
	S-3650PK3E ×3 (S-3650PK3E(36)) U-100PZH3E5	S-3650PK3E ×3 (S-3650PK3E(45)) U-125PZH3E5	S-3650PK3E ×3 (S-3650PK3E(50)) U-140PZH3E5					
	S-3650PK3E ×4 (S-3650PK3E(36)) U-125PZH3E5							
T3	S-3650PT3E (S-3650PT3E(36)) U-36PZH3E5		S-3650PT3E (S-3650PT3E(50)) U-50PZH3E5	S-6071PT3E (S-6071PT3E(60)) U-60PZH3E5	S-6071PT3E (S-6071PT3E(71)) U-71PZH3E5	S-1014PT3E (S-1014PT3E(100)) U-100PZH3E5	S-1014PT3E (S-1014PT3E(125)) U-125PZH3E5	S-1014PT3E (S-1014PT3E(140)) U-140PZH3E5
	S-3650PT3E ×2 (S-3650PT3E(36)) U-71PZH3E5		S-3650PT3E ×2 (S-3650PT3E(50)) U-100PZH3E5	S-6071PT3E ×2 (S-6071PT3E(60)) U-125PZH3E5	S-6071PT3E ×2 (S-6071PT3E(71)) U-140PZH3E5			
	S-3650PT3E ×3 (S-3650PT3E(36)) U-100PZH3E5	S-3650PT3E ×3 (S-3650PT3E(45)) U-125PZH3E5	S-3650PT3E ×3 (S-3650PT3E(50)) U-140PZH3E5					
	S-3650PT3E ×4 (S-3650PT3E(36)) U-125PZH3E5							
Y3	S-36PY3E U-36PZH3E5		S-50PY3E U-50PZH3E5	S-60PY3E U-60PZH3E5				
	S-36PY3E ×2 U-71PZH3E5		S-50PY3E ×2 U-100PZH3E5	S-60PY3E ×2 U-125PZH3E5				
	S-36PY3E ×3 U-100PZH3E5		S-50PY3E ×3 U-140PZH3E5					
	S-36PY3E ×4 U-125PZH3E5							

PZH3

3-phase

	36	45	50	60	71	100	125	140
U3					S-6071PU3E (S-6071PU3E(71)) U-71PZH3E8	S-1014PU3E (S-1014PU3E(100)) U-100PZH3E8	S-1014PU3E (S-1014PU3E(125)) U-125PZH3E8	S-1014PU3E (S-1014PU3E(140)) U-140PZH3E8
	S-3650PU3E ×2 (S-3650PU3E(36)) U-71PZH3E8		S-3650PU3E ×2 (S-3650PU3E(50)) U-100PZH3E8	S-6071PU3E ×2 (S-6071PU3E(60)) U-125PZH3E8	S-6071PU3E ×2 (S-6071PU3E(71)) U-140PZH3E8			
	S-3650PU3E ×3 (S-3650PU3E(36)) U-100PZH3E8	S-3650PU3E ×3 (S-3650PU3E(45)) U-125PZH3E8	S-3650PU3E ×3 (S-3650PU3E(50)) U-140PZH3E8					
	S-3650PU3E ×4 (S-3650PU3E(36)) U-125PZH3E8							
F3					S-6071PF3E (S-6071PF3E(71)) U-71PZH3E8	S-1014PF3E (S-1014PF3E(100)) U-100PZH3E8	S-1014PF3E (S-1014PF3E(125)) U-125PZH3E8	S-1014PF3E (S-1014PF3E(140)) U-140PZH3E8
	S-3650PF3E ×2 (S-3650PF3E(36)) U-71PZH3E8		S-3650PF3E ×2 (S-3650PF3E(50)) U-100PZH3E8	S-6071PF3E ×2 (S-6071PF3E(60)) U-125PZH3E8	S-6071PF3E ×2 (S-6071PF3E(71)) U-140PZH3E8			
	S-3650PF3E ×3 (S-3650PF3E(36)) U-100PZH3E8	S-3650PF3E ×3 (S-3650PF3E(45)) U-125PZH3E8	S-3650PF3E ×3 (S-3650PF3E(50)) U-140PZH3E8					
	S-3650PF3E ×4 (S-3650PF3E(36)) U-125PZH3E8							
K3					S-6010PK3E (S-6010PK3E(71)) U-71PZH3E8	S-6010PK3E (S-6010PK3E(100)) U-100PZH3E8		
	S-3650PK3E ×2 (S-3650PK3E(36)) U-71PZH3E8		S-3650PK3E ×2 (S-3650PK3E(50)) U-100PZH3E8	S-6010PK3E ×2 (S-6010PK3E(60)) U-125PZH3E8	S-6010PK3E ×2 (S-6010PK3E(71)) U-140PZH3E8			
	S-3650PK3E ×3 (S-3650PK3E(36)) U-100PZH3E8	S-3650PK3E ×3 (S-3650PK3E(45)) U-125PZH3E8	S-3650PK3E ×3 (S-3650PK3E(50)) U-140PZH3E8					
	S-3650PK3E ×4 (S-3650PK3E(36)) U-125PZH3E8							
T3					S-6071PT3E (S-6071PT3E(71)) U-71PZH3E8	S-1014PT3E (S-1014PT3E(100)) U-100PZH3E8	S-1014PT3E (S-1014PT3E(125)) U-125PZH3E8	S-1014PT3E (S-1014PT3E(140)) U-140PZH3E8
	S-3650PT3E ×2 (S-3650PT3E(36)) U-71PZH3E8		S-3650PT3E ×2 (S-3650PT3E(50)) U-100PZH3E8	S-6071PT3E ×2 (S-6071PT3E(60)) U-125PZH3E8	S-6071PT3E ×2 (S-6071PT3E(71)) U-140PZH3E8			
	S-3650PT3E ×3 (S-3650PT3E(36)) U-100PZH3E8	S-3650PT3E ×3 (S-3650PT3E(45)) U-125PZH3E8	S-3650PT3E ×3 (S-3650PT3E(50)) U-140PZH3E8					
	S-3650PT3E ×4 (S-3650PT3E(36)) U-125PZH3E8							
Y3	S-36PY3E ×2 U-71PZH3E8		S-50PY3E ×2 U-100PZH3E8	S-60PY3E ×2 U-125PZH3E8				
	S-36PY3E ×3 U-100PZH3E8		S-50PY3E ×3 U-140PZH3E8					
	S-36PY3E ×4 U-125PZH3E8							

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1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-3650PU3E(36) / U-36PZ3E5

INDOOR			MODEL	S-3650PU3E(36)			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-36PZ3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	3.6	3.6	3.6	-	-	-	1.5	4.0
			BTU/h	12300	12300	12300	-	-	-	5100	13600
	Current		A	-	-	-	3.85	3.70	3.55	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			0.830k	0.830k	0.830k	0.255k	1.050k
	Annual consumption		TOTAL kWh *4	-	-	-	-	415	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.34	4.34 / A	4.34	5.88	3.81
	ErP *6	Pdesign	kW	-	-	-	-	3.6	-	-	-
		SEER	(W/W)	-	-	-	-	8.1	-	-	-
		Annual consumption	kWh	-	-	-	-	156	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	98	98	98	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			46 / -			-	-
			Power Level dB	-			64 / -			-	-
HEATING	Capacity		kW	3.6	3.6	3.6	-	-	-	1.5	4.6
			BTU/h	12300	12300	12300	-	-	-	5100	15700
	Current		A	-	-	-	3.35	3.20	3.05	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			0.710k	0.710k	0.710k	0.230k	1.060k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.07	5.07 / A	5.07	6.52	4.34
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	2.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.8	-	-	-
		Annual consumption	kWh	-	-	-	-	817	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	97	97	97	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			47 / -			-	-
			Power Level dB	-			66 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	8.90 / 1.95k	8.90 / 1.99k	8.90 / 2.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.85 / 3.35	3.70 / 3.20	3.55 / 3.05	-	
Comp output(W)				-			1.10k	1.10k	1.10k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			40			-	
Moisture removal volume			L/h	0.7 (0.7 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 / 13.0 / 11.5			-			-	-
	Heating		m³/min (H/M/L)	14.5 / 13.0 / 11.5			-			-	-
Outdoor Air flow	Cooling		m³/min	-			33.6			-	-
	Heating		m³/min	-			34.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	0.870	0.950	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.59	0.64	-	
Product dimension			Height mm	256			619			-	
			Width mm	840			824			-	
			Depth mm	840			299			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			680			-	
			Width mm	898			958			-	
			Depth mm	898			416			-	
Weight			(NET) kg	19			32			-	
			(GROSS) kg	25			35			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			5 (6)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			3 ~ 15 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m			10 g/m						-	
	Pipe length for additional gas m			7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-3650PU3E(50) / U-50PZ3E5

INDOOR			MODEL	S-3650PU3E(50)			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-50PZ3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	5.0	5.0	5.0	-	-	-	1.5	5.6
			BTU/h	17100	17100	17100	-	-	-	5100	19100
	Current		A	-	-	-	5.95	5.70	5.45	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.280k	1.280k	1.280k	0.240k	1.750k
	Annual consumption		TOTAL kWh *4	-	-	-	-	640	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	6.25	3.20
	ErP *6	Pdesign	kW	-	-	-	-	5.0	-	-	-
		SEER	(W/W)	-	-	-	-	8.0	-	-	-
		Annual consumption	kWh	-	-	-	-	219	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	98	98	98	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			46 / -			-	-
			Power Level dB	-			64 / -			-	-
HEATING	Capacity		kW	5.0	5.0	5.0	-	-	-	1.5	6.4
			BTU/h	17100	17100	17100	-	-	-	5100	21800
	Current		A	-	-	-	5.05	4.85	4.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.080k	1.080k	1.080k	0.200k	1.840k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.63	4.63 / A	4.63	7.50	3.48
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.7	-	-	-
		Annual consumption	kWh	-	-	-	-	1191	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	97	97	97	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			46 / -			-	-
			Power Level dB	-			64 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	10.5 / 2.20k	10.5 / 2.25k	10.5 / 2.30k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.95 / 5.05	5.70 / 4.85	5.45 / 4.65	-	
Comp output(W)				-			1.50k	1.50k	1.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			40			-	
Moisture removal volume			L/h	1.6 (1.6 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 / 13.5 / 11.5			-			-	-
	Heating		m³/min (H/M/L)	16.5 / 13.5 / 11.5			-			-	-
Outdoor Air flow	Cooling		m³/min	-			32.7			-	-
	Heating		m³/min	-			31.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.140	1.330	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.77	0.90	-	
Product dimension			Height mm	256			619			-	
			Width mm	840			824			-	
			Depth mm	840			299			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			680			-	
			Width mm	898			958			-	
			Depth mm	898			416			-	
Weight			(NET) kg	19			35			-	
			(GROSS) kg	25			38			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			5 (6)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			3 ~ 20 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m			15 g/m						-	
	Pipe length for additional gas m			7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-6071PU3E(60) / U-60PZ3E5A

INDOOR			MODEL	S-6071PU3E(60)			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-60PZ3E5A			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	6.0	6.0	6.0	-	-	-	2.0	7.1
			BTU/h	20500	20500	20500	-	-	-	6800	24200
	Current		A	-	-	-	7.45	7.15	6.85	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.610k	1.610k	1.610k	0.290k	2.360k
	Annual consumption		TOTAL kWh *4	-	-	-	-	805	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.73	3.73 / A	3.73	6.90	3.01
	ErP *6	Pdesign	kW	-	-	-	-	6.0	-	-	-
		SEER	(W/W)	-	-	-	-	7.8	-	-	-
		Annual consumption	kWh	-	-	-	-	269	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	98	98	98	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 31 / 28			-			-	-
			Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			47 / -			-	-
			Power Level dB	-			64 / -			-	-
HEATING	Capacity		kW	6.0	6.0	6.0	-	-	-	1.8	7.0
			BTU/h	20500	20500	20500	-	-	-	6100	23900
	Current		A	-	-	-	6.20	5.95	5.70	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.340k	1.340k	1.340k	0.240k	2.200k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.48	4.48 / A	4.48	7.50	3.18
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-	-	-
		Annual consumption	kWh	-	-	-	-	1314	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	98	98	98	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 31 / 28			-			-	-
			Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	13.1 / 2.60k	13.1 / 2.65k	13.1 / 2.70k	-	
Starting current(A) (Cooling/Heating)				-	-	-	7.45 / 6.20	7.15 / 5.95	6.85 / 5.70	-	
Comp output(W)				-			1.70k	1.70k	1.70k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			40			-	
Moisture removal volume			L/h	1.7 (1.7 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 / 16.0 / 13.0			-			-	-
	Heating		m³/min (H/M/L)	21.0 / 16.0 / 13.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			42.6			-	-
	Heating		m³/min	-			41.5			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.78	0.88	-	
Product dimension		Height	mm	256			695			-	
		Width	mm	840			875			-	
		Depth	mm	840			320			-	
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension		Height	mm	302			761			-	
		Width	mm	898			1049			-	
		Depth	mm	898			460			-	
Weight		(NET)	kg	20			42			-	
		(GROSS)	kg	26			46			-	
		Panel (NET)	kg	5			-			-	
Layers limit (actually)				11 (12)			3 (4)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø15.88-Ø12.7) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø9.52-Ø6.35) to the liquid tubing side indoor unit						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			15 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-6071PU3E(71) / U-71PZ3E5A

INDOOR		MODEL	S-6071PU3E(71)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-71PZ3E5A			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.6	7.7
		BTU/h	24200	24200	24200	-	-	-	8900	26300
	Current	A	-	-	-	10.0	9.65	9.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.170k	2.170k	2.170k	0.520k	2.780k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1085	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.27	3.27 / A	3.27	5.00	2.77
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	365	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			66 / -			-	-
HEATING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.1	8.1
		BTU/h	24200	24200	24200	-	-	-	7200	27600
	Current	A	-	-	-	7.80	7.45	7.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.680k	1.680k	1.680k	0.330k	2.400k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.23	4.23 / A	4.23	6.36	3.38
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1583	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			49 / -			-	-
		Power Level dB	-			68 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	14.8 / 3.02k	14.8 / 3.12k	14.8 / 3.22k	-	
Starting current(A) (Cooling/Heating)			-	-	-	10.0 / 7.80	9.65 / 7.45	9.25 / 7.15	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			40			-	
Moisture removal volume		L/h	2.5 (2.5 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 / 16.0 / 13.0			-			-	-
	Heating	m³/min (H/M/L)	22.0 / 16.0 / 13.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			44.7			-	-
	Heating	m³/min	-			45.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.320	1.490	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.89	1.01	-	
Product dimension	Height mm		256			695			-	
	Width mm		840			875			-	
	Depth mm		840			320			-	
Product dimension (Panel)	H×W×D mm		33.5 × 950 × 950			-			-	
Packing dimension	Height mm		302			761			-	
	Width mm		898			1049			-	
	Depth mm		898			460			-	
Weight	(NET) kg		20			50			-	
	(GROSS) kg		26			54			-	
	Panel (NET) kg		5			-			-	
Layers limit (actually)			11 (12)			3 (4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8) *Connect the liquid socket tube(Ø9.52-Ø6.35) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		20 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		17 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-1014PU3E(100) / U-100PZ3E5

INDOOR			MODEL	S-1014PU3E(100)			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZ3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	11.5
			BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current		A	-	-	-	13.1	12.5	12.0	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.620k	2.620k	2.620k	0.560k	4.000k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1310	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.82	3.82 / A	3.82	5.36	2.88
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.8	-	-	-
		Annual consumption	kWh	-	-	-	-	515	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	45 / 38 / 32			-			-	-
			Power Level dB	60 / 53 / 47			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	14.0
			BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current		A	-	-	-	10.1	9.70	9.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.030k	2.030k	2.030k	0.560k	3.900k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.93	4.93 / A	4.93	5.36	3.59
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.4	-	-	-
		Annual consumption	kWh	-	-	-	-	3182	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	45 / 38 / 32			-			-	-
			Power Level dB	60 / 53 / 47			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)				-	-	-	13.0 / 10.1	12.5 / 9.70	12.0 / 9.30	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				90			120			-	
Moisture removal volume			L/h	2.7 (2.7 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			-	-
	Heating		m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			73.0			-	-
	Heating		m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	1.62	2.23	-	
Product dimension			Height mm	319			996			-	
			Width mm	840			980			-	
			Depth mm	840			370			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	365			1134			-	
			Width mm	898			1095			-	
			Depth mm	898			529			-	
Weight			(NET) kg	25			83			-	
			(GROSS) kg	31			91			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF

*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.

*3 Network Impedance shall be applicable for EUROPE and CHINA models.

*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.

*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.

*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.

*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-1. 4-Way Cassette Type S-1014PU3E(125) / U-125PZ3E5

INDOOR			MODEL	S-1014PU3E(125)			-			-
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-125PZ3E5			-
Branch pipe			MODEL	-						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz			
			V	220V	230V	240V	220V	230V	240V	Min / Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2 / 13.5
			BTU/h	42700	42700	42700	-	-	-	10900 / 46100
	Current		A	-	-	-	16.9	16.1	15.4	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			3.490k	3.490k	3.490k	0.600k / 4.800k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1745	-	- / -
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.58	3.58 / A	3.58	5.33 / 2.81
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	- / -
		η_{sc}	%	-	-	-	-	267.0	-	- / -
		Annual consumption	kWh	-	-	-	-	-	-	- / -
		Class		-	-	-	-	-	-	- / -
	Power factor		%	-	-	-	94	94	94	- / -
	Noise indoor *7		dB-A (H/M/L)	46 / 39 / 33			-			- / -
			Power Level dB	61 / 54 / 48			-			- / -
	Noise outdoor		dB-A (H/L)	-			55 / -			- / -
			Power Level dB	-			73 / -			- / -
HEATING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.3 / 15.0
			BTU/h	42700	42700	42700	-	-	-	11300 / 51200
	Current		A	-	-	-	13.6	13.0	12.5	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			2.820k	2.820k	2.820k	0.600k / 4.200k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.43	4.43 / A	4.43	5.50 / 3.57
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	12.5	-	- / -
		Tbivalent	°C	-	-	-	-	-10	-	- / -
		η_{sh}	%	-	-	-	-	157.0	-	- / -
		Annual consumption	kWh	-	-	-	-	-	-	- / -
		elbu(-10°C)	kW	-	-	-	-	0.00	-	- / -
		Class		-	-	-	-	-	-	- / -
	Power factor		%	-	-	-	94	94	94	- / -
	Noise indoor *7		dB-A (H/M/L)	46 / 39 / 33			-			- / -
			Power Level dB	61 / 54 / 48			-			- / -
	Noise outdoor		dB-A (H/L)	-			55 / -			- / -
			Power Level dB	-			73 / -			- / -
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
Max Current(A) / Max Input power(W)				-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-
Starting current(A) (Cooling/Heating)				-	-	-	16.9 / 13.6	16.1 / 13.0	15.4 / 12.5	-
Comp output(W)				-			2.80k	2.80k	2.80k	-
Time Delay fuse max size(A)				-			40			-
Network Impedance(ΩMAX.)				-			-			-
Fan motor output (Indoor/Outdoor) W				90			120			-
Moisture removal volume			L/h	4.8 (4.8 ×1)			-			-
External static pressure			Pa	-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			- / -
	Heating		m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			- / -
Outdoor Air flow	Cooling		m³/min	-			82.0			- / -
	Heating		m³/min	-			80.0			- / -
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-
Product dimension		Height	mm	319			996			-
		Width	mm	840			980			-
		Depth	mm	840			370			-
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-
Packing dimension		Height	mm	365			1134			-
		Width	mm	898			1095			-
		Depth	mm	898			529			-
Weight		(NET)	kg	25			87			-
		(GROSS)	kg	31			95			-
		Panel (NET)	kg	5			-			-
Layers limit (actually)				11 (12)			2 (3)			-
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-
Max Working Pressure HP/LP MPa				4.15 / 2.55						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-
	Connecting method			flared type			flared type			-
	Standard length m			5 m						-
	Pipe length range m			5 ~ 50 m						-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-
	Add gas amount g/m			45 g/m						-
	Pipe length for additional gas m			30 m						-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-1014PU3E(140) / U-140PZ3E5

INDOOR		MODEL	S-1014PU3E(140)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	21.0	20.0	19.2	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.340k	4.340k	4.340k	0.620k	5.500k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2170	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.23	3.23 / A	3.23	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	257.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 40 / 34			-			-	-
		Power Level dB	62 / 55 / 49			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	16.2	15.5	14.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.350k	3.350k	3.350k	0.620k	4.800k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.18	4.18 / A	4.18	5.48	3.33
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	14.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	3.10	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 40 / 34			-			-	-
		Power Level dB	62 / 55 / 49			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	21.0 / 16.2	20.0 / 15.5	19.2 / 14.8	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			120			-	
Moisture removal volume		L/h	6.0 (6.0 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	38.0 / 29.0 / 20.0			-			-	-
	Heating	m³/min (H/M/L)	38.0 / 29.0 / 20.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension		Height mm	319			996			-	
		Width mm	840			980			-	
		Depth mm	840			370			-	
Product dimension (Panel)		H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension		Height mm	365			1134			-	
		Width mm	898			1095			-	
		Depth mm	898			529			-	
Weight		(NET) kg	25			87			-	
		(GROSS) kg	31			95			-	
		Panel (NET) kg	5			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-1. 4-Way Cassette Type S-3650PU3E(50) ×2 / U-100PZ3E5

INDOOR			MODEL	S-3650PU3E(50) ×2			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	11.5
			BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current		A	-	-	-	13.1	12.5	12.0	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.620k	2.620k	2.620k	0.560k	4.000k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1310	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.82	3.82 / A	3.82	5.36	2.88
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.8	-	-	-
		Annual consumption	kWh	-	-	-	-	515	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	14.0
			BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current		A	-	-	-	9.70	9.30	8.90	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.030k	2.030k	2.030k	0.560k	3.900k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.93	4.93 / A	4.93	5.36	3.59
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.4	-	-	-
		Annual consumption	kWh	-	-	-	-	3182	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	95	95	95	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)				-	-	-	13.1 / 9.70	12.5 / 9.30	12.0 / 8.90	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			120			-	
Moisture removal volume			L/h	3.2 (1.6 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			73.0			-	-
	Heating		m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	1.62	2.23	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			980			-	
			Depth mm	840			370			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1134			-	
			Width mm	898			1095			-	
			Depth mm	898			529			-	
Weight			(NET) kg	19			83			-	
			(GROSS) kg	25			91			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-6071PU3E(60) ×2 / U-125PZ3E5

INDOOR			MODEL	S-6071PU3E(60) ×2			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-125PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	13.5
			BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current		A	-	-	-	16.9	16.1	15.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.490k	3.490k	3.490k	0.600k	4.800k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1745	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.58	3.58 / A	3.58	5.33	2.81
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	270.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 31 / 28			-			-	-
			Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.3	15.0
			BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current		A	-	-	-	13.6	13.0	12.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.820k	2.820k	2.820k	0.600k	4.200k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.43	4.43 / A	4.43	5.50	3.57
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	157.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 31 / 28			-			-	-
			Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	16.9 / 13.6	16.1 / 13.0	15.4 / 12.5	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			120			-	
Moisture removal volume			L/h	3.4 (1.7 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			980			-	
			Depth mm	840			370			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1134			-	
			Width mm	898			1095			-	
			Depth mm	898			529			-	
Weight			(NET) kg	20			87			-	
			(GROSS) kg	26			95			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-1. 4-Way Cassette Type S-6071PU3E(71)×2 / U-140PZ3E5

INDOOR		MODEL	S-6071PU3E(71) ×2			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	21.0	20.0	19.2	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.340k	4.340k	4.340k	0.620k	5.500k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2170	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.23	3.23 / A	3.23	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	260.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	16.2	15.5	14.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.350k	3.350k	3.350k	0.620k	4.800k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.18	4.18 / A	4.18	5.48	3.33
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	14.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	3.30	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	21.0 / 16.2	20.0 / 15.5	19.2 / 14.8	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			120			-	
Moisture removal volume		L/h	5.0 (2.5 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	22.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	256			996			-	
	Width	mm	840			980			-	
	Depth	mm	840			370			-	
Product dimension (Panel)	H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension	Height	mm	302			1134			-	
	Width	mm	898			1095			-	
	Depth	mm	898			529			-	
Weight	(NET)	kg	20			87			-	
	(GROSS)	kg	26			95			-	
	Panel (NET)	kg	5			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-1014PU3E(100) / U-100PZ3E8

INDOOR		MODEL	S-1014PU3E(100)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-100PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.5
		BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current	A	-	-	-	4.35	4.15	4.00	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.620k	2.620k	2.620k	0.560k	4.000k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1310	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.82	3.82 / A	3.82	5.36	2.88
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	521	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	45 / 38 / 32			-			-	-
		Power Level dB	60 / 53 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	14.0
		BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current	A	-	-	-	3.40	3.20	3.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.030k	2.030k	2.030k	0.560k	3.900k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.93	4.93 / A	4.93	5.36	3.59
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3182	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	45 / 38 / 32			-			-	-
		Power Level dB	60 / 53 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.35 / 3.40	4.15 / 3.20	4.00 / 3.10	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			120			-	
Moisture removal volume		L/h	2.7 (2.7 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			-	-
	Heating	m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension		Height mm	319			996			-	
		Width mm	840			980			-	
		Depth mm	840			370			-	
Product dimension (Panel)		H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension		Height mm	365			1134			-	
		Width mm	898			1095			-	
		Depth mm	898			529			-	
Weight		(NET) kg	25			83			-	
		(GROSS) kg	31			91			-	
		Panel (NET) kg	5			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-1. 4-Way Cassette Type S-1014PU3E(125) / U-125PZ3E8

INDOOR		MODEL	S-1014PU3E(125)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-125PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	13.5
		BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current	A	-	-	-	5.65	5.35	5.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.490k	3.490k	3.490k	0.600k	4.800k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1745	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.58	3.58 / A	3.58	5.33	2.81
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	265.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 39 / 33			-			-	-
		Power Level dB	61 / 54 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
HEATING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.3	15.0
		BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current	A	-	-	-	4.55	4.35	4.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.820k	2.820k	2.820k	0.600k	4.200k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.43	4.43 / A	4.43	5.50	3.57
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	157.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 39 / 33			-			-	-
		Power Level dB	61 / 54 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.65 / 4.55	5.35 / 4.35	5.15 / 4.15	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			120			-	
Moisture removal volume		L/h	4.8 (4.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			-	-
	Heating	m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			82.0			-	-
	Heating	m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height mm		319			996			-	
	Width mm		840			980			-	
	Depth mm		840			370			-	
Product dimension (Panel)	H×W×D mm		33.5 × 950 × 950			-			-	
Packing dimension	Height mm		365			1134			-	
	Width mm		898			1095			-	
	Depth mm		898			529			-	
Weight	(NET) kg		25			87			-	
	(GROSS) kg		31			95			-	
	Panel (NET) kg		5			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-1014PU3E(140) / U-140PZ3E8

INDOOR		MODEL	S-1014PU3E(140)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-140PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	7.00	6.65	6.40	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.340k	4.340k	4.340k	0.620k	5.500k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2170	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.23	3.23 / A	3.23	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	256.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 40 / 34			-			-	-
		Power Level dB	62 / 55 / 49			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	5.40	5.15	4.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.350k	3.350k	3.350k	0.620k	4.800k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.18	4.18 / A	4.18	5.48	3.33
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	14.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	3.10	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 40 / 34			-			-	-
		Power Level dB	62 / 55 / 49			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.00 / 5.40	6.65 / 5.15	6.40 / 4.95	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			120			-	
Moisture removal volume		L/h	6.0 (6.0 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	38.0 / 29.0 / 20.0			-			-	-
	Heating	m³/min (H/M/L)	38.0 / 29.0 / 20.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	319			996			-	
	Width	mm	840			980			-	
	Depth	mm	840			370			-	
Product dimension (Panel)	H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension	Height	mm	365			1134			-	
	Width	mm	898			1095			-	
	Depth	mm	898			529			-	
Weight	(NET)	kg	25			87			-	
	(GROSS)	kg	31			95			-	
	Panel (NET)	kg	5			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-1. 4-Way Cassette Type S-3650PU3E(50) ×2 / U-100PZ3E8

INDOOR			MODEL	S-3650PU3E(50) ×2			-			-
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-100PZ3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	11.5
			BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current		A	-	-	-	4.35	4.15	4.00	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.620k	2.620k	2.620k	0.560k	4.000k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1310	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.82	3.82 / A	3.82	5.36	2.88
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.7	-	-	-
		Annual consumption	kWh	-	-	-	-	521	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	14.0
			BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current		A	-	-	-	3.30	3.15	3.05	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.030k	2.030k	2.030k	0.560k	3.900k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.93	4.93 / A	4.93	5.36	3.59
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.4	-	-	-
		Annual consumption	kWh	-	-	-	-	3182	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)				-	-	-	4.35 / 3.30	4.15 / 3.15	4.00 / 3.05	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			120			-	
Moisture removal volume			L/h	3.2 (1.6 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			73.0			-	-
	Heating		m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.62	2.23	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			980			-	
			Depth mm	840			370			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1134			-	
			Width mm	898			1095			-	
			Depth mm	898			529			-	
Weight			(NET) kg	19			83			-	
			(GROSS) kg	25			91			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-1. PZ3

1-1-1-1. 4-Way Cassette Type S-6071PU3E(60) ×2 / U-125PZ3E8

INDOOR			MODEL	S-6071PU3E(60) ×2			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-125PZ3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	13.5
			BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current		A	-	-	-	5.65	5.35	5.15	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.490k	3.490k	3.490k	0.600k	4.800k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1745	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.58	3.58 / A	3.58	5.33	2.81
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	269.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 31 / 28			-			-	-
			Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.3	15.0
			BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current		A	-	-	-	4.55	4.35	4.15	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.820k	2.820k	2.820k	0.600k	4.200k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.43	4.43 / A	4.43	5.50	3.57
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	157.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 31 / 28			-			-	-
			Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.65 / 4.55	5.35 / 4.35	5.15 / 4.15	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			120			-	
Moisture removal volume			L/h	3.4 (1.7 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension		Height	mm	256			996			-	
		Width	mm	840			980			-	
		Depth	mm	840			370			-	
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension		Height	mm	302			1134			-	
		Width	mm	898			1095			-	
		Depth	mm	898			529			-	
Weight		(NET)	kg	20			87			-	
		(GROSS)	kg	26			95			-	
		Panel (NET)	kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-1. 4-Way Cassette Type S-6071PU3E(71)×2 / U-140PZ3E8

INDOOR			MODEL	S-6071PU3E(71) ×2			-			-
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-140PZ3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	15.0
			BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current		A	-	-	-	7.00	6.65	6.40	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.340k	4.340k	4.340k	0.620k	5.500k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2170	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.23	3.23 / A	3.23	5.32	2.73
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	259.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 31 / 28			-			-	-
			Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			56 / -			-	-
			Power Level dB	-			74 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.4	16.0
			BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current		A	-	-	-	5.40	5.15	4.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.350k	3.350k	3.350k	0.620k	4.800k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.18	4.18 / A	4.18	5.48	3.33
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	14.0	-	-	-
		Tbivalent	°C	-	-	-	-	-7	-	-	-
		η_{sh}	%	-	-	-	-	152.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	3.30	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 31 / 28			-			-	-
			Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			56 / -			-	-
			Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)				-	-	-	7.00 / 5.40	6.65 / 5.15	6.40 / 4.95	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			120			-	
Moisture removal volume			L/h	5.0 (2.5 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	22.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	22.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			84.0			-	-
	Heating		m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			980			-	
			Depth mm	840			370			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1134			-	
			Width mm	898			1095			-	
			Depth mm	898			529			-	
Weight			(NET) kg	20			87			-	
			(GROSS) kg	26			95			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-3650PF3E(36) / U-36PZ3E5

INDOOR			MODEL	S-3650PF3E(36)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-36PZ3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	3.4	3.4	3.4	-	-	-	1.5	4.0
			BTU/h	11600	11600	11600	-	-	-	5100	13600
	Current		A	-	-	-	4.15	4.00	3.85	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			0.900k	0.900k	0.900k	0.300k	1.140k
	Annual consumption		TOTAL kWh *4	-	-	-	-	450	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.00	3.51
	ErP *6	Pdesign	kW	-	-	-	-	3.4	-	-	-
		SEER	(W/W)	-	-	-	-	6.0	-	-	-
		Annual consumption	kWh	-	-	-	-	198	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	98	98	98	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			46 / -			-	-
			Power Level dB	-			64 / -			-	-
HEATING	Capacity		kW	3.4	3.4	3.4	-	-	-	1.5	4.6
			BTU/h	11600	11600	11600	-	-	-	5100	15700
	Current		A	-	-	-	3.85	3.70	3.50	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			0.820k	0.820k	0.820k	0.280k	1.310k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.36	3.51
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	2.4	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.0	-	-	-
		Annual consumption	kWh	-	-	-	-	839	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	97	97	97	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			47 / -			-	-
			Power Level dB	-			66 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	8.90 / 1.95k	8.90 / 1.99k	8.90 / 2.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	4.15 / 3.85	4.00 / 3.70	3.85 / 3.50	-	
Comp output(W)				-			1.10k	1.10k	1.10k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			40			-	
Moisture removal volume			L/h	0.9 (0.9 ×1)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 / 13.0 / 10.0			-			-	-
	Heating		m³/min (H/M/L)	14.0 / 13.0 / 10.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			33.6			-	-
	Heating		m³/min	-			34.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	0.870	0.950	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.59	0.64	-	
Product dimension			Height mm	250			619			-	
			Width mm	800			824			-	
			Depth mm	730			299			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	805			680			-	
			Width mm	1065			958			-	
			Depth mm	340			416			-	
Weight			(NET) kg	25			32			-	
			(GROSS) kg	30			35			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				3 (4)			5 (6)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			3 ~ 15 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m			10 g/m						-	
	Pipe length for additional gas m			7.5 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-3650PF3E(50) / U-50PZ3E5

INDOOR		MODEL	S-3650PF3E(50)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-50PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	5.3
		BTU/h	17100	17100	17100	-	-	-	5100	18100
	Current	A	-	-	-	8.35	8.00	7.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.800k	1.800k	1.800k	0.320k	1.920k
	Annual consumption	TOTAL kWh *4	-	-	-	-	900	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.78	2.78 / D	2.78	4.69	2.76
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	267	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	34 / 30 / 25			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
HEATING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	5.9
		BTU/h	17100	17100	17100	-	-	-	5100	20100
	Current	A	-	-	-	6.45	6.20	5.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.380k	1.380k	1.380k	0.280k	1.930k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.62	3.62 / A	3.62	5.36	3.06
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	3.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1303	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	34 / 30 / 25			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.5 / 2.20k	10.5 / 2.25k	10.5 / 2.30k	-	
Starting current(A) (Cooling/Heating)			-	-	-	8.35 / 6.45	8.00 / 6.20	7.65 / 5.95	-	
Comp output(W)			-			1.50k	1.50k	1.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			107			40			-	
Moisture removal volume		L/h	1.9 (1.9 ×1)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 / 15.0 / 12.0			-			-	-
	Heating	m³/min (H/M/L)	16.0 / 15.0 / 12.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			32.7			-	-
	Heating	m³/min	-			31.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.140	1.330	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.77	0.90	-	
Product dimension	Height	mm	250			619			-	
	Width	mm	800			824			-	
	Depth	mm	730			299			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			680			-	
	Width	mm	1065			958			-	
	Depth	mm	340			416			-	
Weight	(NET)	kg	25			35			-	
	(GROSS)	kg	30			38			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			5 (6)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 20 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-6071PF3E(60) / U-60PZ3E5A

INDOOR		MODEL	S-6071PF3E(60)			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-60PZ3E5A			-		
Branch pipe		MODEL	-								
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz					
		V	220V	230V	240V	220V	230V	240V		Min	Max
COOLING	Capacity	kW	5.7	5.7	5.7	-	-	-		2.0	6.3
		BTU/h	19400	19400	19400	-	-	-		6800	21500
	Current	A	-	-	-	7.45	7.15	6.85		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			1.610k	1.610k	1.610k		0.340k	2.400k
	Annual consumption	TOTAL kWh *4	-	-	-	-	805	-		-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.54	3.54 / A	3.54		5.88	2.63
	ErP *6 Pdesign	kW	-	-	-	-	5.7	-		-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.4	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	310	-		-	-
	ErP *6 Class		-	-	-	-	A++	-		-	-
	Power factor	%	-	-	-	98	98	98		-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-				-	-
		Power Level dB	53 / 49 / 46			-				-	-
	Noise outdoor	dB-A (H/L)	-			47 / -				-	-
		Power Level dB	-			64 / -				-	-
HEATING	Capacity	kW	5.7	5.7	5.7	-	-	-		1.8	7.0
		BTU/h	19400	19400	19400	-	-	-		6100	23900
	Current	A	-	-	-	6.55	6.25	6.00		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			1.410k	1.410k	1.410k		0.290k	2.480k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.04	4.04 / A	4.04		6.21	2.82
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.4	-		-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-		-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1376	-		-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-		-	-
	ErP *6 Class		-	-	-	-	A+	-		-	-
	Power factor	%	-	-	-	98	98	98		-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-				-	-
		Power Level dB	53 / 49 / 46			-				-	-
	Noise outdoor	dB-A (H/L)	-			48 / -				-	-
		Power Level dB	-			65 / -				-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
Max Current(A) / Max Input power(W)			-	-	-	13.1 / 2.60k	13.1 / 2.65k	13.1 / 2.70k		-	
Starting current(A) (Cooling/Heating)			-	-	-	7.45 / 6.55	7.15 / 6.25	6.85 / 6.00		-	
Comp output(W)			-			1.70k	1.70k	1.70k		-	
Time Delay fuse max size(A)			-			20				-	
Network Impedance(ΩMAX.)			-			-				-	
Fan motor output (Indoor/Outdoor) W			165			40				-	
Moisture removal volume		L/h	1.7 (1.7 ×1)			-				-	
External static pressure		Pa	30 (MIN10 - MAX150)			-				-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-				-	-
	Heating	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-				-	-
Outdoor Air flow	Cooling	m³/min	-			42.6				-	-
	Heating	m³/min	-			41.5				-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300		-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88		-	
Product dimension	Height mm		250			695				-	
	Width mm		1000			875				-	
	Depth mm		730			320				-	
Product dimension (Panel)	H×W×D mm		-			-				-	
Packing dimension	Height mm		805			761				-	
	Width mm		1265			1049				-	
	Depth mm		340			460				-	
Weight	(NET) kg		30			42				-	
	(GROSS) kg		36			46				-	
	Panel (NET) kg		-			-				-	
Layers limit (actually)			3 (4)			3 (4)				-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C				-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C				-	
Max Working Pressure HP/LP MPa			4.15 / 2.55							-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)				-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø15.88-Ø12.7) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø9.52-Ø6.35) to the liquid tubing side indoor unit							-	
	Connecting method		flared type			flared type				-	
	Standard length m		5 m							-	
	Pipe length range m		3 ~ 40 m							-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)							-	
	Add gas amount g/m		15 g/m							-	
	Pipe length for additional gas m		30 m							-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-6071PF3E(71) / U-71PZ3E5A

INDOOR		MODEL	S-6071PF3E(71)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZ3E5A			-	
Branch pipe		MODEL	-							
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.6	7.7
		BTU/h	23200	23200	23200	-	-	-	8900	26300
	Current	A	-	-	-	9.95	9.50	9.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.140k	2.140k	2.140k	0.570k	2.860k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1070	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.18	3.18 / B	3.18	4.56	2.69
	ErP *6 Pdesign	kW	-	-	-	-	6.8	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	391	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			66 / -			-	-
HEATING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.1	8.1
		BTU/h	23200	23200	23200	-	-	-	7200	27600
	Current	A	-	-	-	7.90	7.55	7.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.700k	1.700k	1.700k	0.370k	2.670k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.00	4.00 / A	4.00	5.68	3.03
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1591	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			49 / -			-	-
		Power Level dB	-			68 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	14.8 / 3.02k	14.8 / 3.12k	14.8 / 3.22k	-	
Starting current(A) (Cooling/Heating)			-	-	-	9.95 / 7.90	9.50 / 7.55	9.10 / 7.25	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			165			40			-	
Moisture removal volume		L/h	2.7 (2.7 ×1)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
	Heating	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			44.7			-	-
	Heating	m³/min	-			45.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.320	1.490	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.89	1.01	-	
Product dimension	Height	mm	250			695			-	
	Width	mm	1000			875			-	
	Depth	mm	730			320			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			761			-	
	Width	mm	1265			1049			-	
	Depth	mm	340			460			-	
Weight	(NET)	kg	30			50			-	
	(GROSS)	kg	36			54			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			3 (4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8) *Connect the liquid socket tube(Ø9.52-Ø6.35) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		20 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		17 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-1014PF3E(100) / U-100PZ3E5

INDOOR		MODEL	S-1014PF3E(100)			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-100PZ3E5			-		
Branch pipe		MODEL	-								
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz					
		V	220V	230V	240V	220V	230V	240V	Min	Max	
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.0	11.4	
		BTU/h	32400	32400	32400	-	-	-	10200	38900	
	Current	A	-	-	-	13.3	12.7	12.2	-	-	
	Input power	W	-	-	-	-	-	-	-	-	
		TOTAL W	-			2.660k	2.660k	2.660k	0.590k	4.840k	
	Annual consumption	TOTAL kWh *4	-	-	-	-	1330	-	-	-	
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.57	3.57 / A	3.57	5.08	2.36	
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-	-	-	
	ErP *6 SEER	(W/W)	-	-	-	-	6.6	-	-	-	
	ErP *6 Annual consumption	kWh	-	-	-	-	502	-	-	-	
	ErP *6 Class		-	-	-	-	A++	-	-	-	
	Power factor	%	-	-	-	91	91	91	-	-	
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-			-	-	
		Power Level dB	56 / 52 / 48			-			-	-	
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-	
		Power Level dB	-			70 / -			-	-	
HEATING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.0	13.5	
		BTU/h	32400	32400	32400	-	-	-	10200	46100	
	Current	A	-	-	-	11.6	11.1	10.6	-	-	
	Input power	W	-	-	-	-	-	-	-	-	
		TOTAL W	-			2.320k	2.320k	2.320k	0.590k	4.500k	
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.08	3.00	
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-	
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-	
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-	
	ErP *6 Annual consumption	kWh	-	-	-	-	2795	-	-	-	
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-	
	ErP *6 Class		-	-	-	-	A	-	-	-	
	Power factor	%	-	-	-	91	91	91	-	-	
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-			-	-	
		Power Level dB	56 / 52 / 48			-			-	-	
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-	
		Power Level dB	-			70 / -			-	-	
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
Max Current(A) / Max Input power(W)			-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-		
Starting current(A) (Cooling/Heating)			-	-	-	13.3 / 11.6	12.7 / 11.1	12.2 / 10.6	-		
Comp output(W)			-			2.50k	2.50k	2.50k	-		
Time Delay fuse max size(A)			-			35			-		
Network Impedance(ΩMAX.)			-			-			-		
Fan motor output (Indoor/Outdoor) W			259			120			-		
Moisture removal volume		L/h	3.2 (3.2 ×1)			-			-		
External static pressure		Pa	40 (MIN10 - MAX150)			-			-		
Indoor Air flow *7	Cooling	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-			-	-	
	Heating	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-			-	-	
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-	
	Heating	m³/min	-			73.0			-	-	
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-		
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-		
Product dimension	Height	mm	250			996			-		
	Width	mm	1400			980			-		
	Depth	mm	730			370			-		
Product dimension (Panel)	H×W×D	mm	-			-			-		
Packing dimension	Height	mm	805			1134			-		
	Width	mm	1665			1095			-		
	Depth	mm	340			529			-		
Weight	(NET)	kg	39			83			-		
	(GROSS)	kg	45			91			-		
	Panel (NET)	kg	-			-			-		
Layers limit (actually)			3 (4)			2 (3)			-		
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-		
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-		
Max Working Pressure HP/LP MPa			4.15 / 2.55						-		
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-		
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-		
	Connecting method		flared type			flared type			-		
	Standard length m		5 m						-		
	Pipe length range m		5 ~ 50 m						-		
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-		
	Add gas amount g/m		45 g/m						-		
	Pipe length for additional gas m		30 m						-		

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-1014PF3E(125) / U-125PZ3E5

INDOOR			MODEL	S-1014PF3E(125)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZ3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.5
			BTU/h	41300	41300	41300	-	-	-	10900	46100
	Current		A	-	-	-	17.2	16.4	15.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.560k	3.560k	3.560k	0.630k	4.900k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1780	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.08	2.76
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	257.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.3	15.0
			BTU/h	41300	41300	41300	-	-	-	11300	51200
	Current		A	-	-	-	16.4	15.7	15.0	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.400k	3.400k	3.400k	0.630k	4.740k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.56	3.56 / B	3.56	5.24	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	142.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	17.2 / 16.4	16.4 / 15.7	15.8 / 15.0	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				259			120			-	
Moisture removal volume			L/h	4.1 (4.1 ×1)			-			-	
External static pressure			Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
	Heating		m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension		Height	mm	250			996			-	
		Width	mm	1400			980			-	
		Depth	mm	730			370			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1134			-	
		Width	mm	1665			1095			-	
		Depth	mm	340			529			-	
Weight		(NET)	kg	39			87			-	
		(GROSS)	kg	45			95			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-1014PF3E(140) / U-140PZ3E5

INDOOR		MODEL	S-1014PF3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	15.0
		BTU/h	45700	45700	45700	-	-	-	11300	51200
	Current	A	-	-	-	20.5	19.6	18.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.240k	4.240k	4.240k	0.650k	5.860k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2120	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.16	3.16 / B	3.16	5.08	2.56
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	252.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 29			-			-	-
		Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.4	16.0
		BTU/h	45700	45700	45700	-	-	-	11600	54600
	Current	A	-	-	-	17.2	16.4	15.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.560k	3.560k	3.560k	0.650k	5.280k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.76	3.76 / A	3.76	5.23	3.03
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	140.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 29			-			-	-
		Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	20.5 / 17.2	19.6 / 16.4	18.8 / 15.8	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			259			120			-	
Moisture removal volume		L/h	4.9 (4.9 ×1)			-			-	
External static pressure		Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
	Heating	m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension		Height mm	250			996			-	
		Width mm	1400			980			-	
		Depth mm	730			370			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	805			1134			-	
		Width mm	1665			1095			-	
		Depth mm	340			529			-	
Weight		(NET) kg	39			87			-	
		(GROSS) kg	45			95			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-3650PF3E(50) ×2 / U-100PZ3E5

INDOOR			MODEL	S-3650PF3E(50) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.0	11.4
			BTU/h	32400	32400	32400	-	-	-	10200	38900
	Current		A	-	-	-	13.7	13.1	12.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.750k	2.750k	2.750k	0.580k	4.920k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1375	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.45	3.45 / A	3.45	5.17	2.32
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.0	-	-	-
		Annual consumption	kWh	-	-	-	-	548	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	34 / 30 / 25			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.0	13.5
			BTU/h	32400	32400	32400	-	-	-	10200	46100
	Current		A	-	-	-	11.5	11.0	10.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.400k	2.400k	2.400k	0.580k	4.570k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.17	2.95
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	3.9	-	-	-
		Annual consumption	kWh	-	-	-	-	2777	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A	-	-	-
	Power factor		%	-	-	-	95	95	95	-	-
	Noise indoor *7		dB-A (H/M/L)	34 / 30 / 25			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)				-	-	-	13.7 / 11.5	13.1 / 11.0	12.6 / 10.5	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			120			-	
Moisture removal volume			L/h	3.8 (1.9 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.0 ×2 / 15.0 ×2 / 12.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.0 ×2 / 15.0 ×2 / 12.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			73.0			-	-
	Heating		m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.62	2.23	-	
Product dimension			Height mm	250			996			-	
			Width mm	800			980			-	
			Depth mm	730			370			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	805			1134			-	
			Width mm	1065			1095			-	
			Depth mm	340			529			-	
Weight			(NET) kg	25			83			-	
			(GROSS) kg	30			91			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				3 (4)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-6071PF3E(60) ×2 / U-125PZ3E5

INDOOR			MODEL	S-6071PF3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.5
			BTU/h	41300	41300	41300	-	-	-	10900	46100
	Current		A	-	-	-	17.2	16.5	15.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.570k	3.570k	3.570k	0.550k	4.910k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1785	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.39	3.39 / A	3.39	5.82	2.75
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	259.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.3	15.0
			BTU/h	41300	41300	41300	-	-	-	11300	51200
	Current		A	-	-	-	16.5	15.7	15.1	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.410k	3.410k	3.410k	0.550k	4.740k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.55	3.55 / B	3.55	6.00	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	143.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	17.2 / 16.5	16.5 / 15.7	15.8 / 15.1	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			120			-	
Moisture removal volume			L/h	3.4 (1.7 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension		Height	mm	250			996			-	
		Width	mm	1000			980			-	
		Depth	mm	730			370			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1134			-	
		Width	mm	1265			1095			-	
		Depth	mm	340			529			-	
Weight		(NET)	kg	30			87			-	
		(GROSS)	kg	36			95			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Similtaneous (Twin) - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-6071PF3E(71)×2 / U-140PZ3E5

INDOOR		MODEL	S-6071PF3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	15.0
		BTU/h	45700	45700	45700	-	-	-	11300	51200
	Current	A	-	-	-	20.5	19.6	18.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.240k	4.240k	4.240k	0.650k	5.860k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2120	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.16	3.16 / B	3.16	5.08	2.56
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	254.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.4	16.0
		BTU/h	45700	45700	45700	-	-	-	11600	54600
	Current	A	-	-	-	17.2	16.4	15.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.560k	3.560k	3.560k	0.650k	5.280k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.76	3.76 / A	3.76	5.23	3.03
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	141.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	20.5 / 17.2	19.6 / 16.4	18.8 / 15.8	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			165			120			-	
Moisture removal volume		L/h	5.4 (2.7 ×2)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	250			996			-	
	Width	mm	1000			980			-	
	Depth	mm	730			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1134			-	
	Width	mm	1265			1095			-	
	Depth	mm	340			529			-	
Weight	(NET)	kg	30			87			-	
	(GROSS)	kg	36			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-1014PF3E(100) / U-100PZ3E8

INDOOR		MODEL	S-1014PF3E(100)			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-100PZ3E8			-		
Branch pipe		MODEL	-								
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz					
		V	220V	230V	240V	380V	400V	415V	Min	Max	
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.0	11.4	
		BTU/h	32400	32400	32400	-	-	-	10200	38900	
	Current	A	-	-	-	4.45	4.20	4.05	-	-	
	Input power	W	-	-	-	-	-	-	-	-	
		TOTAL W	-			2.660k	2.660k	2.660k	0.590k	4.840k	
	Annual consumption	TOTAL kWh *4	-	-	-	-	1330	-	-	-	
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.57	3.57 / A	3.57	5.08	2.36	
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-	-	-	
	ErP *6 SEER	(W/W)	-	-	-	-	6.5	-	-	-	
	ErP *6 Annual consumption	kWh	-	-	-	-	508	-	-	-	
	ErP *6 Class		-	-	-	-	A++	-	-	-	
	Power factor	%	-	-	-	91	91	91	-	-	
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-			-	-	
		Power Level dB	56 / 52 / 48			-			-	-	
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-	
		Power Level dB	-			70 / -			-	-	
HEATING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.0	13.5	
		BTU/h	32400	32400	32400	-	-	-	10200	46100	
	Current	A	-	-	-	3.85	3.70	3.55	-	-	
	Input power	W	-	-	-	-	-	-	-	-	
		TOTAL W	-			2.320k	2.320k	2.320k	0.590k	4.500k	
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.08	3.00	
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-	
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-	
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-	
	ErP *6 Annual consumption	kWh	-	-	-	-	2795	-	-	-	
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-	
	ErP *6 Class		-	-	-	-	A	-	-	-	
	Power factor	%	-	-	-	91	91	91	-	-	
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-			-	-	
		Power Level dB	56 / 52 / 48			-			-	-	
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-	
		Power Level dB	-			70 / -			-	-	
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
Max Current(A) / Max Input power(W)			-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-		
Starting current(A) (Cooling/Heating)			-	-	-	4.45 / 3.85	4.20 / 3.70	4.05 / 3.55	-		
Comp output(W)			-			2.50k	2.50k	2.50k	-		
Time Delay fuse max size(A)			-			15			-		
Network Impedance(ΩMAX.)			-			-			-		
Fan motor output (Indoor/Outdoor) W			259			120			-		
Moisture removal volume		L/h	3.2 (3.2 ×1)			-			-		
External static pressure		Pa	40 (MIN10 - MAX150)			-			-		
Indoor Air flow *7	Cooling	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-			-	-	
	Heating	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-			-	-	
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-	
	Heating	m³/min	-			73.0			-	-	
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-		
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-		
Product dimension	Height	mm	250			996			-		
	Width	mm	1400			980			-		
	Depth	mm	730			370			-		
Product dimension (Panel)	H×W×D	mm	-			-			-		
Packing dimension	Height	mm	805			1134			-		
	Width	mm	1665			1095			-		
	Depth	mm	340			529			-		
Weight	(NET)	kg	39			83			-		
	(GROSS)	kg	45			91			-		
	Panel (NET)	kg	-			-			-		
Layers limit (actually)			3 (4)			2 (3)			-		
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-		
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-		
Max Working Pressure HP/LP MPa			4.15 / 2.55						-		
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-		
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-		
	Connecting method		flared type			flared type			-		
	Standard length m		5 m						-		
	Pipe length range m		5 ~ 50 m						-		
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-		
	Add gas amount g/m		45 g/m						-		
	Pipe length for additional gas m		30 m						-		

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-1014PF3E(125) / U-125PZ3E8

INDOOR		MODEL	S-1014PF3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	13.5
		BTU/h	41300	41300	41300	-	-	-	10900	46100
	Current	A	-	-	-	5.75	5.45	5.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.560k	3.560k	3.560k	0.630k	4.900k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1780	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.08	2.76
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	256.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
HEATING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.3	15.0
		BTU/h	41300	41300	41300	-	-	-	11300	51200
	Current	A	-	-	-	5.50	5.20	5.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.400k	3.400k	3.400k	0.630k	4.740k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.56	3.56 / B	3.56	5.24	3.16
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	142.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.75 / 5.50	5.45 / 5.20	5.25 / 5.05	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			259			120			-	
Moisture removal volume		L/h	4.1 (4.1 ×1)			-			-	
External static pressure		Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			82.0			-	-
	Heating	m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	250			996			-	
	Width	mm	1400			980			-	
	Depth	mm	730			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1134			-	
	Width	mm	1665			1095			-	
	Depth	mm	340			529			-	
Weight	(NET)	kg	39			87			-	
	(GROSS)	kg	45			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-1014PF3E(140) / U-140PZ3E8

INDOOR			MODEL	S-1014PF3E(140)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZ3E8			-	
Branch pipe			MODEL	-							
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	15.0
			BTU/h	45700	45700	45700	-	-	-	11300	51200
	Current		A	-	-	-	6.85	6.50	6.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.240k	4.240k	4.240k	0.650k	5.860k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2120	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.16	3.16 / B	3.16	5.08	2.56
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	251.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 29			-			-	-
			Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor		dB-A (H/L)	-			56 / -			-	-
			Power Level dB	-			74 / -			-	-
HEATING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.4	16.0
			BTU/h	45700	45700	45700	-	-	-	11600	54600
	Current		A	-	-	-	5.75	5.45	5.25	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.560k	3.560k	3.560k	0.650k	5.280k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.76	3.76 / A	3.76	5.23	3.03
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	140.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 29			-			-	-
			Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor		dB-A (H/L)	-			56 / -			-	-
			Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.85 / 5.75	6.50 / 5.45	6.30 / 5.25	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				259			120			-	
Moisture removal volume			L/h	4.9 (4.9 ×1)			-			-	
External static pressure			Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
	Heating		m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			84.0			-	-
	Heating		m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension		Height	mm	250			996			-	
		Width	mm	1400			980			-	
		Depth	mm	730			370			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1134			-	
		Width	mm	1665			1095			-	
		Depth	mm	340			529			-	
Weight		(NET)	kg	39			87			-	
		(GROSS)	kg	45			95			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-3650PF3E(50) ×2 / U-100PZ3E8

INDOOR			MODEL	S-3650PF3E(50) ×2			-			-
PANEL			MODEL	-			-			-
OUTDOOR			MODEL	-			U-100PZ3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min / Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.0 / 11.4
			BTU/h	32400	32400	32400	-	-	-	10200 / 38900
	Current		A	-	-	-	4.60	4.35	4.20	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			2.750k	2.750k	2.750k	0.580k / 4.920k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1375	-	- / -
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.45	3.45 / A	3.45	5.17 / 2.32
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	- / -
		SEER	(W/W)	-	-	-	-	6.0	-	- / -
		Annual consumption	kWh	-	-	-	-	554	-	- / -
		Class		-	-	-	-	A+	-	- / -
	Power factor		%	-	-	-	91	91	91	- / -
	Noise indoor *7		dB-A (H/M/L)	34 / 30 / 25			-			- / -
			Power Level dB	57 / 53 / 48			-			- / -
	Noise outdoor		dB-A (H/L)	-			52 / -			- / -
			Power Level dB	-			70 / -			- / -
HEATING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.0 / 13.5
			BTU/h	32400	32400	32400	-	-	-	10200 / 46100
	Current		A	-	-	-	3.90	3.70	3.60	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			2.400k	2.400k	2.400k	0.580k / 4.570k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.17 / 2.95
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	- / -
		Tbivalent	°C	-	-	-	-	-10	-	- / -
		SCOP	(W/W)	-	-	-	-	3.9	-	- / -
		Annual consumption	kWh	-	-	-	-	2778	-	- / -
		elbu(-10°C)	kW	-	-	-	-	0.00	-	- / -
		Class		-	-	-	-	A	-	- / -
	Power factor		%	-	-	-	93	93	93	- / -
	Noise indoor *7		dB-A (H/M/L)	34 / 30 / 25			-			- / -
			Power Level dB	57 / 53 / 48			-			- / -
	Noise outdoor		dB-A (H/L)	-			52 / -			- / -
			Power Level dB	-			70 / -			- / -
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
Max Current(A) / Max Input power(W)				-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-
Starting current(A) (Cooling/Heating)				-	-	-	4.60 / 3.90	4.35 / 3.70	4.20 / 3.60	-
Comp output(W)				-			2.50k	2.50k	2.50k	-
Time Delay fuse max size(A)				-			15			-
Network Impedance(ΩMAX.)				-			-			-
Fan motor output (Indoor/Outdoor) W				107			120			-
Moisture removal volume			L/h	3.8 (1.9 ×2)			-			-
External static pressure			Pa	30 (MIN10 - MAX150)			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.0 ×2 / 15.0 ×2 / 12.0 ×2			-			- / -
	Heating		m³/min (H/M/L)	16.0 ×2 / 15.0 ×2 / 12.0 ×2			-			- / -
Outdoor Air flow	Cooling		m³/min	-			73.0			- / -
	Heating		m³/min	-			73.0			- / -
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.62	2.23	-
Product dimension			Height mm	250			996			-
			Width mm	800			980			-
			Depth mm	730			370			-
Product dimension (Panel)			H×W×D mm	-			-			-
Packing dimension			Height mm	805			1134			-
			Width mm	1065			1095			-
			Depth mm	340			529			-
Weight			(NET) kg	25			83			-
			(GROSS) kg	30			91			-
			Panel (NET) kg	-			-			-
Layers limit (actually)				3 (4)			2 (3)			-
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-
Max Working Pressure HP/LP MPa				4.15 / 2.55						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-
	Connecting method			flared type			flared type			-
	Standard length m			5 m						-
	Pipe length range m			5 ~ 50 m						-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-
	Add gas amount g/m			45 g/m						-
	Pipe length for additional gas m			30 m						-

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-1. PZ3

1-1-1-2. Middle Static Pressure Duct Type S-6071PF3E(60) ×2 / U-125PZ3E8

INDOOR			MODEL	S-6071PF3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZ3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO13253 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.5
			BTU/h	41300	41300	41300	-	-	-	10900	46100
	Current		A	-	-	-	5.75	5.50	5.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.570k	3.570k	3.570k	0.550k	4.910k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1785	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.39	3.39 / A	3.39	5.82	2.75
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	257.9	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.3	15.0
			BTU/h	41300	41300	41300	-	-	-	11300	51200
	Current		A	-	-	-	5.50	5.25	5.05	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.410k	3.410k	3.410k	0.550k	4.740k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.55	3.55 / B	3.55	6.00	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	143.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.75 / 5.50	5.50 / 5.25	5.30 / 5.05	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			120			-	
Moisture removal volume			L/h	3.4 (1.7 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.89	2.50	-	
Product dimension		Height	mm	250			996			-	
		Width	mm	1000			980			-	
		Depth	mm	730			370			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1134			-	
		Width	mm	1265			1095			-	
		Depth	mm	340			529			-	
Weight		(NET)	kg	30			87			-	
		(GROSS)	kg	36			95			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-2. Middle Static Pressure Duct Type S-6071PF3E(71)×2 / U-140PZ3E8

INDOOR		MODEL	S-6071PF3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO13253 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	15.0
		BTU/h	45700	45700	45700	-	-	-	11300	51200
	Current	A	-	-	-	6.85	6.50	6.30	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.240k	4.240k	4.240k	0.650k	5.860k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2120	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.16	3.16 / B	3.16	5.08	2.56
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	253.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.4	16.0
		BTU/h	45700	45700	45700	-	-	-	11600	54600
	Current	A	-	-	-	5.75	5.45	5.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.560k	3.560k	3.560k	0.650k	5.280k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.76	3.76 / A	3.76	5.23	3.03
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	141.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.85 / 5.75	6.50 / 5.45	6.30 / 5.25	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			165			120			-	
Moisture removal volume		L/h	5.4 (2.7 ×2)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	250			996			-	
	Width	mm	1000			980			-	
	Depth	mm	730			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1134			-	
	Width	mm	1265			1095			-	
	Depth	mm	340			529			-	
Weight	(NET)	kg	30			87			-	
	(GROSS)	kg	36			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-3650PK3E(36) / U-36PZ3E5

INDOOR		MODEL	S-3650PK3E(36)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-36PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.5	4.0
		BTU/h	12300	12300	12300	-	-	-	5100	13600
	Current	A	-	-	-	4.05	3.85	3.70	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.870k	0.870k	0.870k	255	1.07k
	Annual consumption	TOTAL kWh *4	-	-	-	-	435	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.14	4.14 / A	4.14	5.88	3.74
	ErP *6 Pdesign	kW	-	-	-	-	3.6	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	166	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
HEATING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.5	4.6
		BTU/h	12300	12300	12300	-	-	-	5100	15700
	Current	A	-	-	-	3.65	3.50	3.35	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.780k	0.780k	0.780k	230	1.12k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.62	4.62 / A	4.62	6.52	4.11
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	2.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	872	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			47 / -			-	-
		Power Level dB	-			66 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	8.90 / 1.95k	8.90 / 1.99k	8.90 / 2.04k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.05 / 3.65	3.85 / 3.50	3.70 / 3.35	-	
Comp output(W)			-			1.10k	1.10k	1.10k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			40			-	
Moisture removal volume		L/h	0.9 (0.9 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	13.0 / 11.0 / 9.0			-			-	-
	Heating	m³/min (H/M/L)	13.0 / 11.0 / 9.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			33.6			-	-
	Heating	m³/min	-			34.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	0.870	0.950	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.59	0.64	-	
Product dimension	Height mm		302			619			-	
	Width mm		1120			824			-	
	Depth mm		236			299			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			680			-	
	Width mm		1190			958			-	
	Depth mm		378			416			-	
Weight	(NET) kg		13			32			-	
	(GROSS) kg		16			35			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11 (12)			5 (6)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 15 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		10 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-3650PK3E(50) / U-50PZ3E5

INDOOR		MODEL	S-3650PK3E(50)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-50PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	5.6
		BTU/h	17100	17100	17100	-	-	-	5100	19100
	Current	A	-	-	-	6.60	6.30	6.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.420k	1.420k	1.420k	240	1.85k
	Annual consumption	TOTAL kWh *4	-	-	-	-	710	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.52	3.52 / A	3.52	6.25	3.03
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	237	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
HEATING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	6.4
		BTU/h	17100	17100	17100	-	-	-	5100	21800
	Current	A	-	-	-	5.60	5.35	5.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.190k	1.190k	1.190k	200	2.02k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.20	4.20 / A	4.20	7.50	3.17
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1273	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.5 / 2.20k	10.5 / 2.25k	10.5 / 2.30k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.60 / 5.60	6.30 / 5.35	6.05 / 5.10	-	
Comp output(W)			-			1.50k	1.50k	1.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			40			-	
Moisture removal volume		L/h	1.8 (1.8 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 / 13.5 / 11.0			-			-	-
	Heating	m³/min (H/M/L)	16.0 / 13.5 / 11.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			32.7			-	-
	Heating	m³/min	-			31.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.140	1.330	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.77	0.90	-	
Product dimension		Height mm	302			619			-	
		Width mm	1120			824			-	
		Depth mm	236			299			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	282			680			-	
		Width mm	1190			958			-	
		Depth mm	378			416			-	
Weight		(NET) kg	13			35			-	
		(GROSS) kg	16			38			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			11 (12)			5 (6)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 20 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(60) / U-60PZ3E5A

INDOOR		MODEL	S-6010PK3E(60)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-60PZ3E5A			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.1	6.1	6.1	-	-	-	2.0	7.1
		BTU/h	20800	20800	20800	-	-	-	6800	24200
	Current	A	-	-	-	7.70	7.35	7.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.660k	1.660k	1.660k	290	2.36k
	Annual consumption	TOTAL kWh *4	-	-	-	-	830	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.67	3.67 / A	3.67	6.90	3.01
	ErP *6 Pdesign	kW	-	-	-	-	6.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	305	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			47 / -			-	-
		Power Level dB	-			64 / -			-	-
HEATING	Capacity	kW	6.1	6.1	6.1	-	-	-	1.8	7.0
		BTU/h	20800	20800	20800	-	-	-	6100	23900
	Current	A	-	-	-	6.45	6.15	5.90	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.390k	1.390k	1.390k	240	2.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.39	4.39 / A	4.39	7.50	3.18
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1370	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.1 / 2.60k	13.1 / 2.65k	13.1 / 2.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.70 / 6.45	7.35 / 6.15	7.05 / 5.90	-	
Comp output(W)			-			1.70k	1.70k	1.70k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			40			-	
Moisture removal volume		L/h	2.0 (2.0 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
	Heating	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.6			-	-
	Heating	m³/min	-			41.5			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension		Height mm	302			695			-	
		Width mm	1120			875			-	
		Depth mm	236			320			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	282			761			-	
		Width mm	1190			1049			-	
		Depth mm	378			460			-	
Weight		(NET) kg	14			42			-	
		(GROSS) kg	17			46			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			11 (12)			3 (4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(71) / U-71PZ3E5A

INDOOR		MODEL	S-6010PK3E(71)			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-71PZ3E5A			-		
Branch pipe		MODEL	-								
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz					
		V	220V	230V	240V	220V	230V	240V		Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-		2.6	7.7
		BTU/h	24200	24200	24200	-	-	-		8900	26300
	Current	A	-	-	-	10.4	10.0	9.55		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			2.250k	2.250k	2.250k		520	2.78k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1125	-		-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.16	3.16 / B	3.16		5.00	2.77
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-		-	-
	ErP *6 SEER	(W/W)	-	-	-	-	5.8	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	429	-		-	-
	ErP *6 Class		-	-	-	-	A+	-		-	-
	Power factor	%	-	-	-	98	98	98		-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-				-	-
		Power Level dB	63 / 60 / 56			-				-	-
	Noise outdoor	dB-A (H/L)	-			48 / -				-	-
		Power Level dB	-			66 / -				-	-
HEATING	Capacity	kW	7.1	7.1	7.1	-	-	-		2.1	8.1
		BTU/h	24200	24200	24200	-	-	-		7200	27600
	Current	A	-	-	-	7.80	7.45	7.15		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			1.680k	1.680k	1.680k		330	2.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.23	4.23 / A	4.23		6.36	3.38
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-		-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-		-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1653	-		-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-		-	-
	ErP *6 Class		-	-	-	-	A+	-		-	-
	Power factor	%	-	-	-	98	98	98		-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-				-	-
		Power Level dB	63 / 60 / 56			-				-	-
	Noise outdoor	dB-A (H/L)	-			49 / -				-	-
		Power Level dB	-			68 / -				-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
Max Current(A) / Max Input power(W)			-	-	-	14.8 / 3.02k	14.8 / 3.12k	14.8 / 3.22k		-	
Starting current(A) (Cooling/Heating)			-	-	-	10.4 / 7.80	10.0 / 7.45	9.55 / 7.15		-	
Comp output(W)			-			2.00k	2.00k	2.00k		-	
Time Delay fuse max size(A)			-			20				-	
Network Impedance(ΩMAX.)			-			-				-	
Fan motor output (Indoor/Outdoor) W			54			40				-	
Moisture removal volume		L/h	3.0 (3.0 × 1)			-				-	
External static pressure		Pa	-			-				-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-				-	-
	Heating	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-				-	-
Outdoor Air flow	Cooling	m³/min	-			44.7				-	-
	Heating	m³/min	-			45.9				-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.320	1.490		-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.89	1.01		-	
Product dimension	Height	mm	302			695				-	
	Width	mm	1120			875				-	
	Depth	mm	236			320				-	
Product dimension (Panel)	H×W×D	mm	-			-				-	
Packing dimension	Height	mm	282			761				-	
	Width	mm	1190			1049				-	
	Depth	mm	378			460				-	
Weight	(NET)	kg	14			50				-	
	(GROSS)	kg	17			54				-	
	Panel (NET)	kg	-			-				-	
Layers limit (actually)			11 (12)			3 (4)				-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C				-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C				-	
Max Working Pressure HP/LP MPa			4.15 / 2.55							-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8)				-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8) *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit							-	
	Connecting method		flared type			flared type				-	
	Standard length m		5 m							-	
	Pipe length range m		3 ~ 40 m							-	
	Indoor unit & Outdoor unit height difference m		20 m(OD located lower) / 30 m(OD located higher)							-	
	Add gas amount g/m		17 g/m							-	
	Pipe length for additional gas m		30 m							-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(100) / U-100PZ3E5

INDOOR			MODEL	S-6010PK3E(100)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZ3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	9.0	9.0	9.0	-	-	-	3.0	9.7
			BTU/h	30700	30700	30700	-	-	-	10200	33100
	Current		A	-	-	-	12.9	12.4	11.9	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.590k	2.590k	2.590k	560	3.10k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1295	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.47	3.47 / A	3.47	5.36	3.13
	ErP *6	Pdesign	kW	-	-	-	-	9.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.5	-	-	-
		Annual consumption	kWh	-	-	-	-	485	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	49 / 45 / 41			-			-	-
			Power Level dB	65 / 61 / 57			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	9.0	9.0	9.0	-	-	-	3.0	10.5
			BTU/h	30700	30700	30700	-	-	-	10200	35800
	Current		A	-	-	-	11.4	10.9	10.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.290k	2.290k	2.290k	560	2.95k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.93	3.93 / A	3.93	5.36	3.56
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.0	-	-	-
		Tbivalent	°C	-	-	-	-	-7	-	-	-
		SCOP	(W/W)	-	-	-	-	3.9	-	-	-
		Annual consumption	kWh	-	-	-	-	3231	-	-	-
		elbu(-10°C)	kW	-	-	-	-	1.25	-	-	-
		Class		-	-	-	-	A	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	49 / 45 / 41			-			-	-
			Power Level dB	65 / 61 / 57			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)				-	-	-	12.9 / 11.4	12.4 / 10.9	11.9 / 10.5	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			120			-	
Moisture removal volume			L/h	4.3 (4.3 × 1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	22.0 / 18.5 / 15.0			-			-	-
	Heating		m³/min (H/M/L)	22.0 / 18.5 / 15.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			73.0			-	-
	Heating		m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.62	2.23	-	
Product dimension		Height	mm	302			996			-	
		Width	mm	1120			980			-	
		Depth	mm	236			370			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	282			1134			-	
		Width	mm	1190			1095			-	
		Depth	mm	378			529			-	
Weight		(NET)	kg	14			83			-	
		(GROSS)	kg	17			91			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-3650PK3E(50)×2 / U-100PZ3E5

INDOOR		MODEL	S-3650PK3E(50) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.0
		BTU/h	34100	34100	34100	-	-	-	10200	37500
	Current	A	-	-	-	14.4	13.8	13.2	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.880k	2.880k	2.880k	560	4.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1440	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.47	3.47 / A	3.47	5.36	2.75
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	547	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	12.4
		BTU/h	34100	34100	34100	-	-	-	10200	42300
	Current	A	-	-	-	12.2	11.6	11.1	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.540k	2.540k	2.540k	560	3.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.94	3.94 / A	3.94	5.36	3.18
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3590	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	1.69	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	95	95	95	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)			-	-	-	14.4 / 12.2	13.8 / 11.6	13.2 / 11.1	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			120			-	
Moisture removal volume		L/h	3.6 (1.8 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height mm		302			996			-	
	Width mm		1120			980			-	
	Depth mm		236			370			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			1134			-	
	Width mm		1190			1095			-	
	Depth mm		378			529			-	
Weight	(NET) kg		13			83			-	
	(GROSS) kg		16			91			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(60) ×2 / U-125PZ3E5

INDOOR			MODEL	S-6010PK3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	13.2
			BTU/h	42700	42700	42700	-	-	-	10900	45000
	Current		A	-	-	-	18.9	18.0	17.3	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.900k	3.900k	3.900k	600	4.80k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1950	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.33	2.75
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	237.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.3	15.0
			BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current		A	-	-	-	16.2	15.5	14.9	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.360k	3.360k	3.360k	600	4.60k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.50	3.26
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
		Tbivalent	°C	-	-	-	-	-7	-	-	-
		η_{sh}	%	-	-	-	-	139.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	2.40	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	18.9 / 16.2	18.0 / 15.5	17.3 / 14.9	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			120			-	
Moisture removal volume			L/h	4.0 (2.0 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	1.89	2.50	-	
Product dimension			Height mm	302			996			-	
			Width mm	1120			980			-	
			Depth mm	236			370			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1134			-	
			Width mm	1190			1095			-	
			Depth mm	378			529			-	
Weight			(NET) kg	14			87			-	
			(GROSS) kg	17			95			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(71) ×2 / U-140PZ3E5

INDOOR		MODEL	S-6010PK3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	23.4	22.4	21.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.840k	4.840k	4.840k	620	5.60k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2420	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.89	2.89 / C	2.89	5.32	2.68
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	228.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	19.1	18.3	17.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.950k	3.950k	3.950k	620	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.54	3.54 / B	3.54	5.48	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	13.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	137.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.80	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	23.4 / 19.1	22.4 / 18.3	21.5 / 17.5	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			120			-	
Moisture removal volume		L/h	6.0 (3.0 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	302			996			-	
	Width	mm	1120			980			-	
	Depth	mm	236			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1134			-	
	Width	mm	1190			1095			-	
	Depth	mm	378			529			-	
Weight	(NET)	kg	14			87			-	
	(GROSS)	kg	17			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type

1-1-1. PZ3

1-1-1-3. Wall Mounted Type S-6010PK3E(100) / U-100PZ3E8

INDOOR		MODEL	S-6010PK3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	9.0	9.0	9.0	-	-	-	3.0	9.7
		BTU/h	30700	30700	30700	-	-	-	10200	33100
	Current	A	-	-	-	4.30	4.10	3.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.590k	2.590k	2.590k	560	3.10k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1295	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.47	3.47 / A	3.47	5.36	3.13
	ErP *6 Pdesign	kW	-	-	-	-	9.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	485	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	49 / 45 / 41			-			-	-
		Power Level dB	65 / 61 / 57			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	9.0	9.0	9.0	-	-	-	3.0	10.5
		BTU/h	30700	30700	30700	-	-	-	10200	35800
	Current	A	-	-	-	3.80	3.65	3.50	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.290k	2.290k	2.290k	560	2.95k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.93	3.93 / A	3.93	5.36	3.56
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3231	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	1.40	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	49 / 45 / 41			-			-	-
		Power Level dB	65 / 61 / 57			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.30 / 3.80	4.10 / 3.65	3.95 / 3.50	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			120			-	
Moisture removal volume		L/h	4.3 (4.3 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 / 18.5 / 15.0			-			-	-
	Heating	m³/min (H/M/L)	22.0 / 18.5 / 15.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height mm		302			996			-	
	Width mm		1120			980			-	
	Depth mm		236			370			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			1134			-	
	Width mm		1190			1095			-	
	Depth mm		378			529			-	
Weight	(NET) kg		14			83			-	
	(GROSS) kg		17			91			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-3650PK3E(50) ×2 / U-100PZ3E8

INDOOR		MODEL	S-3650PK3E(50) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.0
		BTU/h	34100	34100	34100	-	-	-	10200	37500
	Current	A	-	-	-	4.80	4.55	4.40	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.880k	2.880k	2.880k	560	4.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1440	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.47	3.47 / A	3.47	5.36	2.75
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	547	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	12.4
		BTU/h	34100	34100	34100	-	-	-	10200	42300
	Current	A	-	-	-	4.15	3.95	3.80	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.540k	2.540k	2.540k	560	3.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.94	3.94 / A	3.94	5.36	3.18
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3590	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	1.69	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.80 / 4.15	4.55 / 3.95	4.40 / 3.80	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			120			-	
Moisture removal volume		L/h	3.6 (1.8 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height mm		302			996			-	
	Width mm		1120			980			-	
	Depth mm		236			370			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			1134			-	
	Width mm		1190			1095			-	
	Depth mm		378			529			-	
Weight	(NET) kg		13			83			-	
	(GROSS) kg		16			91			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(60) ×2 / U-125PZ3E8

INDOOR			MODEL	S-6010PK3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZ3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	13.2
			BTU/h	42700	42700	42700	-	-	-	10900	45000
	Current		A	-	-	-	6.30	6.00	5.75	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.900k	3.900k	3.900k	600	4.80k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1950	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.33	2.75
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	236.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.3	15.0
			BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current		A	-	-	-	5.45	5.15	4.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.360k	3.360k	3.360k	600	4.60k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.50	3.26
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
		Tbivalent	°C	-	-	-	-	-7	-	-	-
		η_{sh}	%	-	-	-	-	139.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	2.40	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.30 / 5.45	6.00 / 5.15	5.75 / 4.95	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			120			-	
Moisture removal volume			L/h	4.0 (2.0 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	1.89	2.50	-	
Product dimension			Height mm	302			996			-	
			Width mm	1120			980			-	
			Depth mm	236			370			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1134			-	
			Width mm	1190			1095			-	
			Depth mm	378			529			-	
Weight			(NET) kg	14			87			-	
			(GROSS) kg	17			95			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-3. Wall Mounted Type S-6010PK3E(71) ×2 / U-140PZ3E8

INDOOR		MODEL	S-6010PK3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	7.80	7.45	7.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.840k	4.840k	4.840k	620	5.60k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2420	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.89	2.89 / C	2.89	5.32	2.68
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	228.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	6.40	6.05	5.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.950k	3.950k	3.950k	620	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.54	3.54 / B	3.54	5.48	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	13.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	137.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.80	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.80 / 6.40	7.45 / 6.05	7.15 / 5.85	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			120			-	
Moisture removal volume		L/h	6.0 (3.0 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	302			996			-	
	Width	mm	1120			980			-	
	Depth	mm	236			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1134			-	
	Width	mm	1190			1095			-	
	Depth	mm	378			529			-	
Weight	(NET)	kg	14			87			-	
	(GROSS)	kg	17			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-3650PT3E(36) / U-36PZ3E5

INDOOR		MODEL	S-3650PT3E(36)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-36PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.5	3.5	3.5	-	-	-	1.5	4.0
		BTU/h	11900	11900	11900	-	-	-	5100	13600
	Current	A	-	-	-	3.90	3.75	3.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.845k	0.845k	0.845k	290	1.10k
	Annual consumption	TOTAL kWh *4	-	-	-	-	422.5	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.14	4.14 / A	4.14	5.17	3.64
	ErP *6 Pdesign	kW	-	-	-	-	3.5	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	171	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	36 / 32 / 28			-			-	-
		Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
HEATING	Capacity	kW	3.5	3.5	3.5	-	-	-	1.5	4.6
		BTU/h	11900	11900	11900	-	-	-	5100	15700
	Current	A	-	-	-	3.55	3.40	3.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.760k	0.760k	0.760k	263	1.31k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.70	3.51
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	2.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	891	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	36 / 32 / 28			-			-	-
		Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			47 / -			-	-
		Power Level dB	-			66 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	8.90 / 1.95k	8.90 / 1.99k	8.90 / 2.04k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.90 / 3.55	3.75 / 3.40	3.60 / 3.25	-	
Comp output(W)			-			1.10k	1.10k	1.10k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			40			-	
Moisture removal volume		L/h	0.8 (0.8 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 / 12.0 / 10.5			-			-	-
	Heating	m³/min (H/M/L)	14.0 / 12.0 / 10.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			33.6			-	-
	Heating	m³/min	-			34.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	0.870	0.950	-	
F-Gas		GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	0.59	0.64	-	
Product dimension		Height mm	235			619			-	
		Width mm	960			824			-	
		Depth mm	690			299			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	360			680			-	
		Width mm	1025			958			-	
		Depth mm	820			416			-	
Weight		(NET) kg	26			32			-	
		(GROSS) kg	34			35			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			9 (10)			5 (6)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 15 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		10 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-3650PT3E(50) / U-50PZ3E5

INDOOR		MODEL	S-3650PT3E(50)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-50PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	5.2
		BTU/h	17100	17100	17100	-	-	-	5100	17700
	Current	A	-	-	-	7.65	7.30	7.00	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.650k	1.650k	1.650k	300	1.82k
	Annual consumption	TOTAL kWh *4	-	-	-	-	825	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.03	3.03 / B	3.03	5.00	2.86
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	262	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 33 / 28			-			-	-
		Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
HEATING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	6.4
		BTU/h	17100	17100	17100	-	-	-	5100	21800
	Current	A	-	-	-	6.30	6.00	5.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.340k	1.340k	1.340k	240	2.05k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.73	3.73 / A	3.73	6.25	3.12
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1365	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 33 / 28			-			-	-
		Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			46 / -			-	-
		Power Level dB	-			64 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.5 / 2.20k	10.5 / 2.25k	10.5 / 2.30k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.65 / 6.30	7.30 / 6.00	7.00 / 5.75	-	
Comp output(W)			-			1.50k	1.50k	1.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			40			-	
Moisture removal volume		L/h	2.0 (2.0 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	15.0 / 12.5 / 10.5			-			-	-
	Heating	m³/min (H/M/L)	15.0 / 12.5 / 10.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			32.7			-	-
	Heating	m³/min	-			31.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.140	1.330	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.77	0.90	-	
Product dimension	Height mm		235			619			-	
	Width mm		960			824			-	
	Depth mm		690			299			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			680			-	
	Width mm		1025			958			-	
	Depth mm		820			416			-	
Weight	(NET) kg		26			35			-	
	(GROSS) kg		34			38			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			5 (6)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 20 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-4. Ceiling Type S-6071PT3E(60) / U-60PZ3E5A

INDOOR			MODEL	S-6071PT3E(60)			-			-
PANEL			MODEL	-			-			-
OUTDOOR			MODEL	-			U-60PZ3E5A			-
Branch pipe			MODEL	-						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz			
			V	220V	230V	240V	220V	230V	240V	Min / Max
COOLING	Capacity		kW	6.0	6.0	6.0	-	-	-	2.0 / 7.1
			BTU/h	20500	20500	20500	-	-	-	6800 / 24200
	Current		A	-	-	-	7.75	7.40	7.10	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			1.670k	1.670k	1.670k	290 / 2.45k
	Annual consumption		TOTAL kWh *4	-	-	-	-	835	-	- / -
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.59	3.59 / A	3.59	6.90 / 2.90
	ErP *6	Pdesign	kW	-	-	-	-	6.0	-	- / -
		SEER	(W/W)	-	-	-	-	7.3	-	- / -
		Annual consumption	kWh	-	-	-	-	288	-	- / -
		Class		-	-	-	-	A++	-	- / -
	Power factor		%	-	-	-	98	98	98	- / -
	Noise indoor *7		dB-A (H/M/L)	38 / 34 / 29			-			- / -
			Power Level dB	56 / 52 / 47			-			- / -
	Noise outdoor		dB-A (H/L)	-			47 / -			- / -
			Power Level dB	-			64 / -			- / -
HEATING	Capacity		kW	6.0	6.0	6.0	-	-	-	1.8 / 7.0
			BTU/h	20500	20500	20500	-	-	-	6100 / 23900
	Current		A	-	-	-	6.75	6.50	6.20	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			1.460k	1.460k	1.460k	270 / 2.40k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.11	4.11 / A	4.11	6.67 / 2.92
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.6	-	- / -
		Tbivalent	°C	-	-	-	-	-10	-	- / -
		SCOP	(W/W)	-	-	-	-	4.6	-	- / -
		Annual consumption	kWh	-	-	-	-	1399	-	- / -
		elbu(-10°C)	kW	-	-	-	-	0.00	-	- / -
		Class		-	-	-	-	A++	-	- / -
	Power factor		%	-	-	-	98	98	98	- / -
	Noise indoor *7		dB-A (H/M/L)	38 / 34 / 29			-			- / -
			Power Level dB	56 / 52 / 47			-			- / -
	Noise outdoor		dB-A (H/L)	-			48 / -			- / -
			Power Level dB	-			65 / -			- / -
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
Max Current(A) / Max Input power(W)				-	-	-	13.1 / 2.60k	13.1 / 2.65k	13.1 / 2.70k	-
Starting current(A) (Cooling/Heating)				-	-	-	7.75 / 6.75	7.40 / 6.50	7.10 / 6.20	-
Comp output(W)				-			1.70k	1.70k	1.70k	-
Time Delay fuse max size(A)				-			20			-
Network Impedance(ΩMAX.)				-			-			-
Fan motor output (Indoor/Outdoor) W				74			40			-
Moisture removal volume			L/h	2.1 (2.1 × 1)			-			-
External static pressure			Pa	-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 / 17.0 / 14.5			-			- / -
	Heating		m³/min (H/M/L)	20.0 / 17.0 / 14.5			-			- / -
Outdoor Air flow	Cooling		m³/min	-			42.6			- / -
	Heating		m³/min	-			41.5			- / -
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.150	1.300	-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.78	0.88	-
Product dimension			Height mm	235			695			-
			Width mm	1275			875			-
			Depth mm	690			320			-
Product dimension (Panel)			H×W×D mm	-			-			-
Packing dimension			Height mm	360			761			-
			Width mm	1340			1049			-
			Depth mm	820			460			-
Weight			(NET) kg	34			42			-
			(GROSS) kg	42			46			-
			Panel (NET) kg	-			-			-
Layers limit (actually)				9 (10)			3 (4)			-
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-
Max Working Pressure HP/LP MPa				4.15 / 2.55						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-
	Connecting method			flared type			flared type			-
	Standard length m			5 m						-
	Pipe length range m			3 ~ 40 m						-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-
	Add gas amount g/m			15 g/m						-
	Pipe length for additional gas m			30 m						-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-6071PT3E(71) / U-71PZ3E5A

INDOOR		MODEL	S-6071PT3E(71)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZ3E5A			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.6	7.7
		BTU/h	23200	23200	23200	-	-	-	8900	26300
	Current	A	-	-	-	9.75	9.30	8.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.100k	2.100k	2.100k	530	2.80k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1050	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.24	3.24 / A	3.24	4.91	2.75
	ErP *6 Pdesign	kW	-	-	-	-	6.8	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	5.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	404	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			66 / -			-	-
HEATING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.1	8.1
		BTU/h	23200	23200	23200	-	-	-	7200	27600
	Current	A	-	-	-	7.50	7.20	6.90	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.620k	1.620k	1.620k	370	2.65k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.20	4.20 / A	4.20	5.68	3.06
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1529	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			49 / -			-	-
		Power Level dB	-			68 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	14.8 / 3.02k	14.8 / 3.12k	14.8 / 3.22k	-	
Starting current(A) (Cooling/Heating)			-	-	-	9.75 / 7.50	9.30 / 7.20	8.95 / 6.90	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			40			-	
Moisture removal volume		L/h	2.7 (2.7 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 18.0 / 15.5			-			-	-
	Heating	m³/min (H/M/L)	21.0 / 18.0 / 15.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			44.7			-	-
	Heating	m³/min	-			45.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.320	1.490	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.89	1.01	-	
Product dimension	Height	mm	235			695			-	
	Width	mm	1275			875			-	
	Depth	mm	690			320			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			761			-	
	Width	mm	1340			1049			-	
	Depth	mm	820			460			-	
Weight	(NET)	kg	34			50			-	
	(GROSS)	kg	42			54			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			3 (4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø15.88(5/8) *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		20 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		17 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-1014PT3E(100) / U-100PZ3E5

INDOOR		MODEL	S-1014PT3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.5
		BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current	A	-	-	-	13.7	13.1	12.6	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.750k	2.750k	2.750k	560	4.10k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1375	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.64	3.64 / A	3.64	5.36	2.80
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	531	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	14.0
		BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current	A	-	-	-	11.8	11.3	10.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.360k	2.360k	2.360k	560	4.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.36	3.50
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3331	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.07	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)			-	-	-	13.7 / 11.8	13.1 / 11.3	12.6 / 10.8	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			120			-	
Moisture removal volume		L/h	4.1 (4.1 × 1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1590			980			-	
	Depth	mm	690			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1134			-	
	Width	mm	1655			1095			-	
	Depth	mm	820			529			-	
Weight	(NET)	kg	40			83			-	
	(GROSS)	kg	49			91			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-1014PT3E(125) / U-125PZ3E5

INDOOR		MODEL	S-1014PT3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	13.5
		BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current	A	-	-	-	18.2	17.4	16.7	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.760k	3.760k	3.760k	600	4.88k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1880	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.32	3.32 / A	3.32	5.33	2.77
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	241.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
HEATING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.3	15.0
		BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current	A	-	-	-	15.5	14.8	14.2	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.210k	3.210k	3.210k	730	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.89	3.89 / A	3.89	4.52	3.41
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	147.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.63	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)			-	-	-	18.2 / 15.5	17.4 / 14.8	16.7 / 14.2	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			120			-	
Moisture removal volume		L/h	5.7 (5.7 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			82.0			-	-
	Heating	m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension		Height mm	235			996			-	
		Width mm	1590			980			-	
		Depth mm	690			370			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	360			1134			-	
		Width mm	1655			1095			-	
		Depth mm	820			529			-	
Weight		(NET) kg	40			87			-	
		(GROSS) kg	49			95			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-1014PT3E(140) / U-140PZ3E5

INDOOR		MODEL	S-1014PT3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	22.7	21.7	20.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.700k	4.700k	4.700k	620	5.50k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2350	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.98	2.98 / C	2.98	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	228.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	18.3	17.5	16.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.780k	3.780k	3.780k	620	5.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.70	3.70 / A	3.70	5.48	3.08
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	13.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	145.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.95	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	22.7 / 18.3	21.7 / 17.5	20.8 / 16.8	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			120			-	
Moisture removal volume		L/h	6.9 (6.9 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
	Heating	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1590			980			-	
	Depth	mm	690			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1134			-	
	Width	mm	1655			1095			-	
	Depth	mm	820			529			-	
Weight	(NET)	kg	40			87			-	
	(GROSS)	kg	49			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-3650PT3E(50) ×2 / U-100PZ3E5

INDOOR			MODEL	S-3650PT3E(50) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	11.5
			BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current		A	-	-	-	13.7	13.1	12.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.750k	2.750k	2.750k	560	4.10k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1375	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.64	3.64 / A	3.64	5.36	2.80
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.4	-	-	-
		Annual consumption	kWh	-	-	-	-	543	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.0	14.0
			BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current		A	-	-	-	11.3	10.8	10.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.360k	2.360k	2.360k	560	4.00k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.36	3.50
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
		Tbivalent	°C	-	-	-	-	-7	-	-	-
		SCOP	(W/W)	-	-	-	-	4.2	-	-	-
		Annual consumption	kWh	-	-	-	-	3333	-	-	-
		elbu(-10°C)	kW	-	-	-	-	2.07	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	95	95	95	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)				-	-	-	13.7 / 11.3	13.1 / 10.8	12.6 / 10.4	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			120			-	
Moisture removal volume			L/h	4.0 (2.0 × 2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			73.0			-	-
	Heating		m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.62	2.23	-	
Product dimension			Height mm	235			996			-	
			Width mm	960			980			-	
			Depth mm	690			370			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1134			-	
			Width mm	1025			1095			-	
			Depth mm	820			529			-	
Weight			(NET) kg	26			83			-	
			(GROSS) kg	34			91			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-6071PT3E(60) ×2 / U-125PZ3E5

INDOOR			MODEL	S-6071PT3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZ3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	13.5
			BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current		A	-	-	-	18.2	17.4	16.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.760k	3.760k	3.760k	600	4.88k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1880	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.32	3.32 / A	3.32	5.33	2.77
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	244.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	38 / 34 / 29			-			-	-
			Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
HEATING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.3	15.0
			BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current		A	-	-	-	15.5	14.8	14.2	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.210k	3.210k	3.210k	730	4.40k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.89	3.89 / A	3.89	4.52	3.41
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
		Tbivalent	°C	-	-	-	-	-7	-	-	-
		η_{sh}	%	-	-	-	-	147.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	2.63	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	38 / 34 / 29			-			-	-
			Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor		dB-A (H/L)	-			55 / -			-	-
			Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)				-	-	-	18.2 / 15.5	17.4 / 14.8	16.7 / 14.2	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				74			120			-	
Moisture removal volume			L/h	4.2 (2.1 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			82.0			-	-
	Heating		m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	2.800	3.700	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	1.89	2.50	-	
Product dimension			Height mm	235			996			-	
			Width mm	1275			980			-	
			Depth mm	690			370			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1134			-	
			Width mm	1340			1095			-	
			Depth mm	820			529			-	
Weight			(NET) kg	34			87			-	
			(GROSS) kg	42			95			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
			Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-6071PT3E(71) ×2 / U-140PZ3E5

INDOOR		MODEL	S-6071PT3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	22.7	21.7	20.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.700k	4.700k	4.700k	620	5.50k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2350	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.98	2.98 / C	2.98	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	231.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	18.3	17.5	16.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.780k	3.780k	3.780k	620	5.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.70	3.70 / A	3.70	5.48	3.08
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	13.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	145.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.95	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	32.9 / 6.69k	32.9 / 6.94k	32.9 / 7.24k	-	
Starting current(A) (Cooling/Heating)			-	-	-	22.7 / 18.3	21.7 / 17.5	20.8 / 16.8	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			120			-	
Moisture removal volume		L/h	5.4 (2.7 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 ×2 / 18.0 ×2 / 15.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	21.0 ×2 / 18.0 ×2 / 15.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height mm		235			996			-	
	Width mm		1275			980			-	
	Depth mm		690			370			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			1134			-	
	Width mm		1340			1095			-	
	Depth mm		820			529			-	
Weight	(NET) kg		34			87			-	
	(GROSS) kg		42			95			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-1014PT3E(100) / U-100PZ3E8

INDOOR		MODEL	S-1014PT3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.5
		BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current	A	-	-	-	4.60	4.35	4.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.750k	2.750k	2.750k	560	4.10k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1375	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.64	3.64 / A	3.64	5.36	2.80
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	537	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	14.0
		BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current	A	-	-	-	3.95	3.75	3.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.360k	2.360k	2.360k	560	4.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.36	3.50
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3331	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.07	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.60 / 3.95	4.35 / 3.75	4.20 / 3.60	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			120			-	
Moisture removal volume		L/h	4.1 (4.1 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1590			980			-	
	Depth	mm	690			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1134			-	
	Width	mm	1655			1095			-	
	Depth	mm	820			529			-	
Weight	(NET)	kg	40			83			-	
	(GROSS)	kg	49			91			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-1014PT3E(125) / U-125PZ3E8

INDOOR		MODEL	S-1014PT3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	13.5
		BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current	A	-	-	-	6.10	5.75	5.55	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.760k	3.760k	3.760k	600	4.88k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1880	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.32	3.32 / A	3.32	5.33	2.77
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	240.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
HEATING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.3	15.0
		BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current	A	-	-	-	5.20	4.95	4.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.210k	3.210k	3.210k	730	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.89	3.89 / A	3.89	4.52	3.41
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	147.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.63	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.10 / 5.20	5.75 / 4.95	5.55 / 4.75	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			120			-	
Moisture removal volume		L/h	5.7 (5.7 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			82.0			-	-
	Heating	m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension		Height mm	235			996			-	
		Width mm	1590			980			-	
		Depth mm	690			370			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	360			1134			-	
		Width mm	1655			1095			-	
		Depth mm	820			529			-	
Weight		(NET) kg	40			87			-	
		(GROSS) kg	49			95			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-1014PT3E(140) / U-140PZ3E8

INDOOR		MODEL	S-1014PT3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	7.60	7.20	6.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.700k	4.700k	4.700k	620	5.50k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2350	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.98	2.98 / C	2.98	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	228.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	6.10	5.80	5.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.780k	3.780k	3.780k	620	5.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.70	3.70 / A	3.70	5.48	3.08
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	13.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	145.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.95	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.60 / 6.10	7.20 / 5.80	6.95 / 5.60	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			120			-	
Moisture removal volume		L/h	6.9 (6.9 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
	Heating	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1590			980			-	
	Depth	mm	690			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1134			-	
	Width	mm	1655			1095			-	
	Depth	mm	820			529			-	
Weight	(NET)	kg	40			87			-	
	(GROSS)	kg	49			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-3650PT3E(50) ×2 / U-100PZ3E8

INDOOR		MODEL	S-3650PT3E(50) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.5
		BTU/h	34100	34100	34100	-	-	-	10200	39200
	Current	A	-	-	-	4.60	4.35	4.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.750k	2.750k	2.750k	560	4.10k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1375	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.64	3.64 / A	3.64	5.36	2.80
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	549	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 33 / 28			-			-	-
		Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	14.0
		BTU/h	34100	34100	34100	-	-	-	10200	47800
	Current	A	-	-	-	3.85	3.65	3.55	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.360k	2.360k	2.360k	560	4.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.36	3.50
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3333	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.07	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 33 / 28			-			-	-
		Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.60 / 3.85	4.35 / 3.65	4.20 / 3.55	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			120			-	
Moisture removal volume		L/h	4.0 (2.0 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height mm		235			996			-	
	Width mm		960			980			-	
	Depth mm		690			370			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			1134			-	
	Width mm		1025			1095			-	
	Depth mm		820			529			-	
Weight	(NET) kg		26			83			-	
	(GROSS) kg		34			91			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-6071PT3E(60) ×2 / U-125PZ3E8

INDOOR		MODEL	S-6071PT3E(60) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	13.5
		BTU/h	42700	42700	42700	-	-	-	10900	46100
	Current	A	-	-	-	6.10	5.75	5.55	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.760k	3.760k	3.760k	600	4.88k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1880	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.32	3.32 / A	3.32	5.33	2.77
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	243.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 29			-			-	-
		Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
HEATING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.3	15.0
		BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current	A	-	-	-	5.20	4.95	4.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.210k	3.210k	3.210k	730	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.89	3.89 / A	3.89	4.52	3.41
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	147.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.63	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 29			-			-	-
		Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			55 / -			-	-
		Power Level dB	-			73 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.10 / 5.20	5.75 / 4.95	5.55 / 4.75	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			120			-	
Moisture removal volume		L/h	4.2 (2.1 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			82.0			-	-
	Heating	m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1275			980			-	
	Depth	mm	690			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1134			-	
	Width	mm	1340			1095			-	
	Depth	mm	820			529			-	
Weight	(NET)	kg	34			87			-	
	(GROSS)	kg	42			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-4. Ceiling Type S-6071PT3E(71) ×2 / U-140PZ3E8

INDOOR		MODEL	S-6071PT3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	15.0
		BTU/h	47800	47800	47800	-	-	-	11300	51200
	Current	A	-	-	-	7.60	7.20	6.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.700k	4.700k	4.700k	620	5.50k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2350	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.98	2.98 / C	2.98	5.32	2.73
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	230.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.4	16.0
		BTU/h	47800	47800	47800	-	-	-	11600	54600
	Current	A	-	-	-	6.10	5.80	5.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.780k	3.780k	3.780k	620	5.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.70	3.70 / A	3.70	5.48	3.08
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	13.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	145.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.95	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			56 / -			-	-
		Power Level dB	-			74 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.4 / 6.94k	13.4 / 7.29k	13.4 / 7.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.60 / 6.10	7.20 / 5.80	6.95 / 5.60	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			120			-	
Moisture removal volume		L/h	5.4 (2.7 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 ×2 / 18.0 ×2 / 15.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	21.0 ×2 / 18.0 ×2 / 15.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			84.0			-	-
	Heating	m³/min	-			82.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1275			980			-	
	Depth	mm	690			370			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1134			-	
	Width	mm	1340			1095			-	
	Depth	mm	820			529			-	
Weight	(NET)	kg	34			87			-	
	(GROSS)	kg	42			95			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-5. 4-Way Cassette 60 × 60 Type S-25PY3E / U-25PZ3E5

INDOOR		MODEL		S-25PY3E			-			-	
PANEL		MODEL		CZ-KPY4			-			-	
OUTDOOR		MODEL		-			U-25PZ3E5			-	
Branch pipe		MODEL		-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz		1Ø 50Hz			1Ø 50Hz				
		V		220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW		2.5	2.5	2.5	-	-	-	1.5	3.9
		BTU/h		8500	8500	8500	-	-	-	5100	13300
	Current	A		-	-	-	2.65	2.55	2.45	-	-
	Input power	W		-	-	-	-	-	-	-	-
		TOTAL W			-		0.560k	0.560k	0.560k	255	1.10k
	Annual consumption	TOTAL kWh *4		-	-	-	-	280	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")		-	-	-	4.46	4.46 / A	4.46	5.88	3.55
	ErP *6	Pdesign	kW	-	-	-	-	2.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.5	-	-	-
		Annual consumption	kWh	-	-	-	-	134	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor	%		-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)			31/28/25			-		-	-
		Power Level dB			46/43/40			-		-	-
	Noise outdoor	dB-A (H/L)			-			46/-		-	-
		Power Level dB			-			64/-		-	-
HEATING	Capacity	kW		3.2	3.2	3.2	-	-	-	1.5	4.6
		BTU/h		10900	10900	10900	-	-	-	5100	15700
	Current	A		-	-	-	3.40	3.25	3.10	-	-
	Input power	W		-	-	-	-	-	-	-	-
		TOTAL W			-		0.720k	0.720k	0.720k	230	1.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")		-	-	-	4.44	4.44 / A	4.44	6.52	3.41
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	2.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.6	-	-	-
		Annual consumption	kWh	-	-	-	-	850	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor	%		-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)			31/28/25			-		-	-
		Power Level dB			46/43/40			-		-	-
	Noise outdoor	dB-A (H/L)			-			47/-		-	-
		Power Level dB			-			66/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				-	-	-	8.90 / 1.95k	8.90 / 1.99k	8.90 / 2.04k		-
Starting current(A) (Cooling/Heating)				-	-	-	2.65 / 3.40	2.55 / 3.25	2.45 / 3.10		-
Comp output(W)					-		1.10k	1.10k	1.10k		-
Time Delay fuse max size(A)					-			15			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					31			40			-
Moisture removal volume			L/h		0.7 (0.7 ×1)			-			-
External static pressure			Pa		-			-			-
Indoor Air flow *7	Cooling	m³/min (H/M/L)			8.5 / 7.0 / 6.0			-		-	-
	Heating	m³/min (H/M/L)			8.5 / 7.0 / 6.0			-		-	-
Outdoor Air flow	Cooling	m³/min			-			33.6		-	-
	Heating	m³/min			-			34.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	0.870	0.950		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	0.59	0.64		-
Product dimension	Height	mm			243			619			-
	Width	mm			575			824			-
	Depth	mm			575			299			-
Product dimension (Panel)	H×W×D	mm			30 × 625 × 625			-			-
Packing dimension	Height	mm			325			680			-
	Width	mm			745			958			-
	Depth	mm			700			416			-
Weight	(NET)	kg			15			32			-
	(GROSS)	kg			20			35			-
	Panel (NET)	kg			2.8			-			-
Layers limit (actually)					11(12)			5(6)			-
Operation condition	Cool (DBT)				18°C ~ 32°C			-10°C ~ 43°C			-
	Heat (DBT)				16°C ~ 30°C			-15°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.55						-
PIPING	Pipe port diameter mm (inch)				(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-
	Pipe diameter mm (inch)				(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-
	Connecting method				flared type			flared type			-
	Standard length m				5 m						-
	Pipe length range m				3 ~ 15 m						-
	Indoor unit & Outdoor unit height difference m				15 m(OD located lower) / 15 m(OD located higher)						-
	Add gas amount g/m				10 g/m						-
	Pipe length for additional gas m				7.5 m						-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-5. 4-Way Cassette 60 × 60 Type S-36PY3E / U-36PZ3E5

INDOOR		MODEL	S-36PY3E			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-36PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.5	4.0
		BTU/h	12300	12300	12300	-	-	-	5100	13600
	Current	A	-	-	-	4.20	4.05	3.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.910k	0.910k	0.910k	255	1.12k
	Annual consumption	TOTAL kWh *4	-	-	-	-	455	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.88	3.57
	ErP *6 Pdesign	kW	-	-	-	-	3.6	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	188	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			46/-			-	-
		Power Level dB	-			64/-			-	-
HEATING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.5	4.6
		BTU/h	12300	12300	12300	-	-	-	5100	15700
	Current	A	-	-	-	3.95	3.75	3.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.840k	0.840k	0.840k	230	1.36k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.29	4.29 / A	4.29	6.52	3.38
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	2.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	912	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			66/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	8.90 / 1.95k	8.90 / 1.99k	8.90 / 2.04k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.20 / 3.95	4.05 / 3.75	3.85 / 3.60	-	
Comp output(W)			-			1.10k	1.10k	1.10k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			40			-	
Moisture removal volume		L/h	1.5 (1.5 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	9.5 / 7.5 / 6.0			-			-	-
	Heating	m³/min (H/M/L)	9.5 / 7.5 / 6.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			33.6			-	-
	Heating	m³/min	-			34.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	0.870	0.950	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.59	0.64	-	
Product dimension	Height	mm	243			619			-	
	Width	mm	575			824			-	
	Depth	mm	575			299			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			680			-	
	Width	mm	745			958			-	
	Depth	mm	700			416			-	
Weight	(NET)	kg	15			32			-	
	(GROSS)	kg	20			35			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			5(6)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 15 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		10 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-1. PZ3

1-1-1-5. 4-Way Cassette 60 × 60 Type S-50PY3E / U-50PZ3E5

INDOOR		MODEL	S-50PY3E			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-50PZ3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	5.6
		BTU/h	17100	17100	17100	-	-	-	5100	19100
	Current	A	-	-	-	6.65	6.35	6.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.430k	1.430k	1.430k	240	1.85k
	Annual consumption	TOTAL kWh *4	-	-	-	-	715	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.50	3.50 / A	3.50	6.25	3.03
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	238	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27			-			-	-
		Power Level dB	54/49/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			46/-			-	-
		Power Level dB	-			64/-			-	-
HEATING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.5	6.4
		BTU/h	17100	17100	17100	-	-	-	5100	21800
	Current	A	-	-	-	5.95	5.70	5.45	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.270k	1.270k	1.270k	200	2.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.94	3.94 / A	3.94	7.50	2.91
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1264	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27			-			-	-
		Power Level dB	54/49/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			46/-			-	-
		Power Level dB	-			64/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.5 / 2.20k	10.5 / 2.25k	10.5 / 2.30k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.65 / 5.95	6.35 / 5.70	6.10 / 5.45	-	
Comp output(W)			-			1.50k	1.50k	1.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			40			-	
Moisture removal volume		L/h	2.3 (2.3 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	12.0 / 9.5 / 6.5			-			-	-
	Heating	m³/min (H/M/L)	12.0 / 9.5 / 6.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			32.7			-	-
	Heating	m³/min	-			31.9			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.140	1.330	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.77	0.90	-	
Product dimension		Height mm	243			619			-	
		Width mm	575			824			-	
		Depth mm	575			299			-	
Product dimension (Panel)		H×W×D mm	30 × 625 × 625			-			-	
Packing dimension		Height mm	325			680			-	
		Width mm	745			958			-	
		Depth mm	700			416			-	
Weight		(NET) kg	15			35			-	
		(GROSS) kg	20			38			-	
		Panel (NET) kg	2.8			-			-	
Layers limit (actually)			11(12)			5(6)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)	16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 20 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 15 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		7.5 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-1. PZ3
1-1-1-5. 4-Way Cassette 60 × 60 Type S-60PY3E / U-60PZ3E5A

INDOOR		MODEL	S-60PY3E			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-60PZ3E5A			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.0	6.0	6.0	-	-	-	2.0	7.0
		BTU/h	20500	20500	20500	-	-	-	6800	23900
	Current	A	-	-	-	8.20	7.85	7.55	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.770k	1.770k	1.770k	290	2.53k
	Annual consumption	TOTAL kWh *4	-	-	-	-	885	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.39	3.39 / A	3.39	6.90	2.77
	ErP *6 Pdesign	kW	-	-	-	-	6.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	305	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			64/-			-	-
HEATING	Capacity	kW	6.0	6.0	6.0	-	-	-	1.8	7.0
		BTU/h	20500	20500	20500	-	-	-	6100	23900
	Current	A	-	-	-	7.70	7.35	7.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.660k	1.660k	1.660k	240	2.45k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.61	3.61 / A	3.61	7.50	2.86
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1500	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			48/-			-	-
		Power Level dB	-			65/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	13.1 / 2.60k	13.1 / 2.65k	13.1 / 2.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	8.20 / 7.70	7.85 / 7.35	7.55 / 7.05	-	
Comp output(W)			-			1.70k	1.70k	1.70k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			40			-	
Moisture removal volume		L/h	2.8 (2.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 / 10.5 / 8.0			-			-	-
	Heating	m³/min (H/M/L)	14.0 / 10.5 / 8.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.6			-	-
	Heating	m³/min	-			41.5			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension	Height	mm	243			695			-	
	Width	mm	575			875			-	
	Depth	mm	575			320			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			761			-	
	Width	mm	745			1049			-	
	Depth	mm	700			460			-	
Weight	(NET)	kg	15			42			-	
	(GROSS)	kg	20			46			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-5. 4-Way Cassette 60 × 60 Type S-50PY3E ×2 / U-100PZ3E5

INDOOR		MODEL	S-50PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-100PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.0
		BTU/h	34100	34100	34100	-	-	-	10200	37500
	Current	A	0.32 ×2	0.30 ×2	0.29 ×2	15.0	14.3	13.7	-	-
	Input power	W	34 ×2	34 ×2	34 ×2	-	-	-	-	-
		TOTAL W		-		3.000k	3.000k	3.000k	560	4.52k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1500	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.33	3.33 / A	3.33	5.36	2.43
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	562	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)		39/34/27			-		-	-
		Power Level dB		54/49/42			-		-	-
	Noise outdoor	dB-A (H/L)		-			52/-		-	-
		Power Level dB		-			70/-		-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	12.4
		BTU/h	34100	34100	34100	-	-	-	10200	42300
	Current	A	0.30 ×2	0.28 ×2	0.27 ×2	12.7	12.1	11.6	-	-
	Input power	W	32 ×2	32 ×2	32 ×2	-	-	-	-	-
		TOTAL W		-		2.650k	2.650k	2.650k	560	4.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.77	3.77 / A	3.77	5.36	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3665	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	1.69	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	95	95	95	-	-
	Noise indoor *7	dB-A (H/M/L)		39/34/27			-		-	-
		Power Level dB		54/49/42			-		-	-
	Noise outdoor	dB-A (H/L)		-			52/-		-	-
		Power Level dB		-			70/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-	-	
Max Current(A) / Max Input power(W)			0.35/45 ×2	0.35/45 ×2	0.35/45 ×2	27.9 / 5.69k	27.9 / 5.94k	27.9 / 6.14k	-	
Starting current(A) (Cooling/Heating)			-	-	-	15.0 / 12.7	14.3 / 12.1	13.7 / 11.6	-	
Comp output(W)				-		2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35		-	
Network Impedance(ΩMAX.)				-			-		-	
Fan motor output (Indoor/Outdoor) W				31			120		-	
Moisture removal volume		L/h		4.6 (2.3 ×2)			-		-	
External static pressure		Pa		-			-		-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)		12.0 ×2 / 9.5 ×2 / 6.5 ×2			-		-	-
	Heating	m³/min (H/M/L)		12.0 ×2 / 9.5 ×2 / 6.5 ×2			-		-	-
Outdoor Air flow	Cooling	m³/min		-			73.0		-	-
	Heating	m³/min		-			73.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-		R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-		675	1.62	2.23	-	
Product dimension	Height	mm		243			996		-	
	Width	mm		575			980		-	
	Depth	mm		575			370		-	
Product dimension (Panel)	H×W×D	mm		30 × 625 × 625			-		-	
Packing dimension	Height	mm		325			1134		-	
	Width	mm		745			1095		-	
	Depth	mm		700			529		-	
Weight	(NET)	kg		15			83		-	
	(GROSS)	kg		20			91		-	
	Panel (NET)	kg		2.8			-		-	
Layers limit (actually)				11(12)			2 (3)		-	
Operation condition	Cool (DBT)			18°C ~ 32°C			-10°C ~ 43°C		-	
	Heat (DBT)			16°C ~ 30°C			-15°C ~ 24°C		-	
Max Working Pressure HP/LP MPa				4.15 / 2.55					-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-5. 4-Way Cassette 60 × 60 Type S-60PY3E ×2 / U-125PZ3E5

INDOOR		MODEL	S-60PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-125PZ3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	13.2
		BTU/h	42700	42700	42700	-	-	-	10900	45000
	Current	A	0.41 ×2	0.39 ×2	0.38 ×2	19.8	19.0	18.2	-	-
	Input power	W	48 ×2	48 ×2	48 ×2	-	-	-	-	-
		TOTAL W		-		4.100k	4.100k	4.100k	600	5.60k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2050	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.05	3.05 / B	3.05	5.33	2.36
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	229.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)		43/37/31			-		-	-
		Power Level dB		58/52/46			-		-	-
	Noise outdoor	dB-A (H/L)		-			55/-		-	-
		Power Level dB		-			73/-		-	-
HEATING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.3	15.0
		BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current	A	0.39 ×2	0.37 ×2	0.36 ×2	16.9	16.2	15.5	-	-
	Input power	W	46 ×2	46 ×2	46 ×2	-	-	-	-	-
		TOTAL W		-		3.500k	3.500k	3.500k	600	4.95k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.57	3.57 / B	3.57	5.50	3.03
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	139.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.40	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)		43/37/31			-		-	-
		Power Level dB		58/52/46			-		-	-
	Noise outdoor	dB-A (H/L)		-			55/-		-	-
		Power Level dB		-			73/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-	-	
Max Current(A) / Max Input power(W)			0.47/62 ×2	0.46/62 ×2	0.45/62 ×2	31.9 / 6.44k	31.9 / 6.74k	31.9 / 7.04k	-	
Starting current(A) (Cooling/Heating)			-	-	-	19.8 / 16.9	19.0 / 16.2	18.2 / 15.5	-	
Comp output(W)				-		2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40		-	
Network Impedance(ΩMAX.)				-			-		-	
Fan motor output (Indoor/Outdoor) W				31			120		-	
Moisture removal volume		L/h		5.6 (2.8 ×2)			-		-	
External static pressure		Pa		-			-		-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)		14.0 ×2 / 10.5 ×2 / 8.0 ×2			-		-	-
	Heating	m³/min (H/M/L)		14.0 ×2 / 10.5 ×2 / 8.0 ×2			-		-	-
Outdoor Air flow	Cooling	m³/min		-			82.0		-	-
	Heating	m³/min		-			80.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-		R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-		675	1.89	2.50	-	
Product dimension	Height mm			243			996		-	
	Width mm			575			980		-	
	Depth mm			575			370		-	
Product dimension (Panel)	H×W×D mm			30 × 625 × 625			-		-	
Packing dimension	Height mm			325			1134		-	
	Width mm			745			1095		-	
	Depth mm			700			529		-	
Weight	(NET) kg			15			87		-	
	(GROSS) kg			20			95		-	
	Panel (NET) kg			2.8			-		-	
Layers limit (actually)				11(12)			2 (3)		-	
Operation condition	Cool (DBT)			18°C ~ 32°C			-10°C ~ 43°C		-	
	Heat (DBT)			16°C ~ 30°C			-15°C ~ 24°C		-	
Max Working Pressure HP/LP MPa				4.15 / 2.55					-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-5. 4-Way Cassette 60 × 60 Type S-50PY3E ×2 / U-100PZ3E8

INDOOR		MODEL	S-50PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-100PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	11.0
		BTU/h	34100	34100	34100	-	-	-	10200	37500
	Current	A	0.32 ×2	0.30 ×2	0.29 ×2	5.00	4.75	4.60	-	-
	Input power	W	34 ×2	34 ×2	34 ×2	-	-	-	-	-
		TOTAL W	-			3.000k	3.000k	3.000k	560	4.52k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1500	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.33	3.33 / A	3.33	5.36	2.43
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	569	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27			-			-	-
		Power Level dB	54/49/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			52/-			-	-
		Power Level dB	-			70/-			-	-
HEATING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.0	12.4
		BTU/h	34100	34100	34100	-	-	-	10200	42300
	Current	A	0.30 ×2	0.28 ×2	0.27 ×2	4.35	4.10	3.95	-	-
	Input power	W	32 ×2	32 ×2	32 ×2	-	-	-	-	-
		TOTAL W	-			2.650k	2.650k	2.650k	560	4.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.77	3.77 / A	3.77	5.36	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	3665	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	1.69	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27			-			-	-
		Power Level dB	54/49/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			52/-			-	-
		Power Level dB	-			70/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.35/45 ×2	0.35/45 ×2	0.35/45 ×2	11.9 / 5.99k	11.9 / 6.29k	11.9 / 6.49k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.00 / 4.35	4.75 / 4.10	4.60 / 3.95	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			120			-	
Moisture removal volume		L/h	4.6 (2.3 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	12.0 ×2 / 9.5 ×2 / 6.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	12.0 ×2 / 9.5 ×2 / 6.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			73.0			-	-
	Heating	m³/min	-			73.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.400	3.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.62	2.23	-	
Product dimension	Height	mm	243			996			-	
	Width	mm	575			980			-	
	Depth	mm	575			370			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1134			-	
	Width	mm	745			1095			-	
	Depth	mm	700			529			-	
Weight	(NET)	kg	15			83			-	
	(GROSS)	kg	20			91			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-1. PZ3
1-1-1-5. 4-Way Cassette 60 × 60 Type S-60PY3E ×2 / U-125PZ3E8

INDOOR		MODEL	S-60PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-125PZ3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	13.2
		BTU/h	42700	42700	42700	-	-	-	10900	45000
	Current	A	0.41 ×2	0.39 ×2	0.38 ×2	6.65	6.30	6.05	-	-
	Input power	W	48 ×2	48 ×2	48 ×2	-	-	-	-	-
		TOTAL W	-			4.100k	4.100k	4.100k	600	5.60k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2050	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.05	3.05 / B	3.05	5.33	2.36
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	227.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			55/-			-	-
		Power Level dB	-			73/-			-	-
HEATING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.3	15.0
		BTU/h	42700	42700	42700	-	-	-	11300	51200
	Current	A	0.39 ×2	0.37 ×2	0.36 ×2	5.65	5.35	5.20	-	-
	Input power	W	46 ×2	46 ×2	46 ×2	-	-	-	-	-
		TOTAL W	-			3.500k	3.500k	3.500k	600	4.95k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.57	3.57 / B	3.57	5.50	3.03
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	12.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-7	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	139.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	2.40	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	94	94	94	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			55/-			-	-
		Power Level dB	-			73/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.47/62 ×2	0.46/62 ×2	0.45/62 ×2	12.9 / 6.64k	12.9 / 6.94k	12.9 / 7.19k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.65 / 5.65	6.30 / 5.35	6.05 / 5.20	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			120			-	
Moisture removal volume		L/h	5.6 (2.8 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×2 / 10.5 ×2 / 8.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×2 / 10.5 ×2 / 8.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			82.0			-	-
	Heating	m³/min	-			80.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	2.800	3.700	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.89	2.50	-	
Product dimension	Height	mm	243			996			-	
	Width	mm	575			980			-	
	Depth	mm	575			370			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1134			-	
	Width	mm	745			1095			-	
	Depth	mm	700			529			-	
Weight	(NET)	kg	15			87			-	
	(GROSS)	kg	20			95			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
	Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) / U-36PZH3E5

INDOOR		MODEL	S-3650PU3E(36)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-36PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.2	4.0
		BTU/h	12300	12300	12300	-	-	-	4100	13600
	Current	A	-	-	-	3.25	3.10	3.00	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.660k	0.660k	0.660k	0.220k	0.870k
	Annual consumption	TOTAL kWh *4	-	-	-	-	330	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.45	5.45 / A	5.45	5.45	4.60
	ErP *6 Pdesign	kW	-	-	-	-	3.6	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	8.9	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	142	-	-	-
	ErP *6 Class		-	-	-	-	A+++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	30/28/27			-			-	-
		Power Level dB	45/43/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			43/-			-	-
		Power Level dB	-			62/-			-	-
HEATING	Capacity	kW	4.0	4.0	4.0	-	-	-	1.2	5.0
		BTU/h	13600	13600	13600	-	-	-	4100	17100
	Current	A	-	-	-	3.60	3.45	3.30	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.740k	0.740k	0.740k	0.220k	1.100k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.41	5.41 / A	5.41	5.45	4.55
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	3.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	5.1	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	988	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+++	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	30/28/27			-			-	-
		Power Level dB	45/43/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			44/-			-	-
		Power Level dB	-			64/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.0 / 2.20k	11.0 / 2.30k	11.0 / 2.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.25 / 3.60	3.10 / 3.45	3.00 / 3.30	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			40			-	
Moisture removal volume		L/h	0.7 (0.7 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.5 / 13.0 / 11.5			-			-	-
	Heating	m³/min (H/M/L)	14.5 / 13.0 / 11.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			34.1			-	-
	Heating	m³/min	-			36.4			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension		Height mm	256			695			-	
		Width mm	840			875			-	
		Depth mm	840			320			-	
Product dimension (Panel)		H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension		Height mm	302			761			-	
		Width mm	898			1049			-	
		Depth mm	898			460			-	
Weight		(NET) kg	19			42			-	
		(GROSS) kg	25			46			-	
		Panel (NET) kg	5			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(50) / U-50PZH3E5

INDOOR			MODEL	S-3650PU3E(50)			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-50PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	5.0	5.0	5.0	-	-	-	1.2	5.6
			BTU/h	17100	17100	17100	-	-	-	4100	19100
	Current		A	-	-	-	5.50	5.25	5.05	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.160k	1.160k	1.160k	0.220k	1.450k
	Annual consumption		TOTAL kWh *4	-	-	-	-	580	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.31	4.31 / A	4.31	5.45	3.86
	ErP *6	Pdesign	kW	-	-	-	-	5.0	-	-	-
		SEER	(W/W)	-	-	-	-	8.6	-		
		Annual consumption	kWh	-	-	-	-	203	-	-	-
		Class		-	-	-	-	A+++	-	-	-
	Power factor		%	-	-	-	96	96	96	-	-
	Noise indoor *7		dB-A (H/M/L)	32/29/27			-			-	-
			Power Level dB	47/44/42			-			-	-
	Noise outdoor		dB-A (H/L)	-			46/-			-	-
			Power Level dB	-			64/-			-	-
HEATING	Capacity		kW	5.6	5.6	5.6	-	-	-	1.2	6.5
			BTU/h	19100	19100	19100	-	-	-	4100	22200
	Current		A	-	-	-	6.25	6.00	5.75	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.320k	1.320k	1.320k	0.220k	1.550k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.45	4.19
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-		
		Annual consumption	kWh	-	-	-	-	1286	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	96	96	96	-	-
	Noise indoor *7		dB-A (H/M/L)	32/29/27			-			-	-
			Power Level dB	47/44/42			-			-	-
	Noise outdoor		dB-A (H/L)	-			48/-			-	-
			Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	12.0 / 2.46k	12.0 / 2.57k	12.0 / 2.68k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.50 / 6.25	5.25 / 6.00	5.05 / 5.75	-	
Comp output(W)				-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			40			-	
Moisture removal volume			L/h	1.6 (1.6 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 / 13.5 / 11.5			-			-	-
	Heating		m³/min (H/M/L)	16.5 / 13.5 / 11.5			-			-	-
Outdoor Air flow	Cooling		m³/min	-			42.0			-	-
	Heating		m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.76	0.86	-	
Product dimension		Height	mm	256			695			-	
		Width	mm	840			875			-	
		Depth	mm	840			320			-	
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension		Height	mm	302			761			-	
		Width	mm	898			1049			-	
		Depth	mm	898			460			-	
Weight		(NET)	kg	19			42			-	
		(GROSS)	kg	25			46			-	
		Panel (NET)	kg	5			-			-	
Layers limit (actually)				11(12)			3(4)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			15 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-6071PU3E(60) / U-60PZH3E5

INDOOR		MODEL	S-6071PU3E(60)			-			-	
PANEL		MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-60PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.0	6.0	6.0	-	-	-	1.2	7.1
		BTU/h	20500	20500	20500	-	-	-	4100	24200
	Current	A	-	-	-	6.95	6.65	6.35	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.480k	1.480k	1.480k	0.220k	2.350k
	Annual consumption	TOTAL kWh *4	-	-	-	-	740	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.05	4.05 / A	4.05	5.45	3.02
	ErP *6 Pdesign	kW	-	-	-	-	6.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	8.0	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	263	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	36/31/28			-			-	-
		Power Level dB	51/46/43			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	7.0	7.0	7.0	-	-	-	1.2	8.0
		BTU/h	23900	23900	23900	-	-	-	4100	27300
	Current	A	-	-	-	8.05	7.70	7.40	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.740k	1.740k	1.740k	0.220k	2.350k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.02	4.02 / A	4.02	5.45	3.40
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.8	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	1371	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	36/31/28			-			-	-
		Power Level dB	51/46/43			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			69/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	16.4 / 3.25k	16.4 / 3.39k	16.4 / 3.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.95 / 8.05	6.65 / 7.70	6.35 / 7.40	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			40			-	
Moisture removal volume		L/h	1.7 (1.7 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 16.0 / 13.0			-			-	-
	Heating	m³/min (H/M/L)	21.0 / 16.0 / 13.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension	Height mm		256			695			-	
	Width mm		840			875			-	
	Depth mm		840			320			-	
Product dimension (Panel)	H×W×D mm		33.5 × 950 × 950			-			-	
Packing dimension	Height mm		302			761			-	
	Width mm		898			1049			-	
	Depth mm		898			460			-	
Weight	(NET) kg		20			43			-	
	(GROSS) kg		26			47			-	
	Panel (NET) kg		5			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-6071PU3E(71) / U-71PZH3E5

INDOOR			MODEL	S-6071PU3E(71)			-			-	
PANEL			MODEL	Standard type : CZ-KPU3 or CZ-KPU3W / ECONAVI type : CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	7.1	7.1	7.1	-	-	-	2.2	9.0
			BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current		A	-	-	-	8.65	8.25	7.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.75k	1.75k	1.75k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	875	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	7.1	-	-	-
		SEER	(W/W)	-	-	-	-	7.7	-		
		Annual consumption	kWh	-	-	-	-	323	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 31 / 28			-			-	-
			Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	9.00	8.70	8.35	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.86k	1.86k	1.86k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.8	-		
		Annual consumption	kWh	-	-	-	-	1517	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	94	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 31 / 28			-			-	-
			Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			50/-			-	-
			Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	18.0 / 3.75k	18.0 / 3.90k	18.0 / 4.10k	-	
Starting current(A) (Cooling/Heating)				-	-	-	8.65 / 9.00	8.25 / 8.70	7.95 / 8.35	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90			-	
Moisture removal volume			L/h	2.5 (2.5 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	22.0 / 16.0 / 13.0			-			-	-
	Heating		m³/min (H/M/L)	22.0 / 16.0 / 13.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1136			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	20			65			-	
			(GROSS) kg	26			73			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-1014PU3E(100) / U-100PZH3E5

INDOOR			MODEL	S-1014PU3E(100)			-			-
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-100PZH3E5			-
Branch pipe			MODEL	-						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz			
			V	220V	230V	240V	220V	230V	240V	Min / Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1 / 12.5
			BTU/h	34100	34100	34100	-	-	-	10600 / 42700
	Current		A	-	-	-	11.2	10.7	10.3	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			2.27k	2.27k	2.27k	580 / 3.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1135	-	- / -
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.41	4.41 / A	4.41	5.34 / 3.42
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	- / -
		SEER	(W/W)	-	-	-	-	7.8	-	- / -
		Annual consumption	kWh	-	-	-	-	449	-	- / -
		Class		-	-	-	-	A++	-	- / -
	Power factor		%	-	-	-	92	92	92	- / -
	Noise indoor *7		dB-A (H/M/L)	45 / 38 / 32			-			- / -
			Power Level dB	60 / 53 / 47			-			- / -
	Noise outdoor		dB-A (H/L)	-			52 / -			- / -
			Power Level dB	-			69 / -			- / -
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1 / 14.0
			BTU/h	38200	38200	38200	-	-	-	10600 / 47800
	Current		A	-	-	-	10.9	10.6	10.1	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W	-			2.24k	2.24k	2.24k	560 / 3.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.54 / 3.64
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	- / -
		Tbivalent	°C	-	-	-	-	-10	-	- / -
		SCOP	(W/W)	-	-	-	-	4.9	-	- / -
		Annual consumption	kWh	-	-	-	-	2286	-	- / -
		elbu(-10°C)	kW	-	-	-	-	0.00	-	- / -
		Class		-	-	-	-	A++	-	- / -
	Power factor		%	-	-	-	93	92	92	- / -
	Noise indoor *7		dB-A (H/M/L)	45 / 38 / 32			-			- / -
			Power Level dB	60 / 53 / 47			-			- / -
	Noise outdoor		dB-A (H/L)	-			52 / -			- / -
			Power Level dB	-			69 / -			- / -
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-
Max Current(A) / Max Input power(W)				-	-	-	25.2 / 5.30k	25.2 / 5.50k	25.1 / 5.75k	-
Starting current(A) (Cooling/Heating)				-	-	-	11.2 / 10.9	10.7 / 10.6	10.3 / 10.1	-
Comp output(W)				-			2.50k	2.50k	2.50k	-
Time Delay fuse max size(A)				-			35			-
Network Impedance(ΩMAX.)				-			-			-
Fan motor output (Indoor/Outdoor) W				90			90 ×2			-
Moisture removal volume			L/h	2.7 (2.7 ×1)			-			-
External static pressure			Pa	-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			- / -
	Heating		m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			- / -
Outdoor Air flow	Cooling		m³/min	-			118.0			- / -
	Heating		m³/min	-			108.0			- / -
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-
Product dimension		Height	mm	319			1416			-
		Width	mm	840			940			-
		Depth	mm	840			340			-
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-
Packing dimension		Height	mm	365			1556			-
		Width	mm	898			1055			-
		Depth	mm	898			485			-
Weight		(NET)	kg	25			98			-
		(GROSS)	kg	31			110			-
		Panel (NET)	kg	5			-			-
Layers limit (actually)				11 (12)			1 (2)			-
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa				4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-
	Connecting method			flared type			flared type			-
	Standard length m			5 m						-
	Pipe length range m			5 ~ 85 m						-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-
	Add gas amount g/m			45 g/m						-
	Pipe length for additional gas m			30 m						-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-1014PU3E(125) / U-125PZH3E5

INDOOR		MODEL	S-1014PU3E(125)			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	-	-	-	16.1	15.4	14.7	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.29k	3.29k	3.29k	600	4.55k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 ηsc	%	-	-	-	-	304.3	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 39 / 33			-			-	-
		Power Level dB	61 / 54 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	14.9	14.2	13.6	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	186.0	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 39 / 33			-			-	-
		Power Level dB	61 / 54 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	28.2 / 5.90k	28.2 / 6.15k	28.1 / 6.45k	-	
Starting current(A) (Cooling/Heating)			-	-	-	16.1 / 14.9	15.4 / 14.2	14.7 / 13.6	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			90 ×2			-	
Moisture removal volume		L/h	4.8 (4.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			-	-
	Heating	m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	319			1416			-	
	Width	mm	840			940			-	
	Depth	mm	840			340			-	
Product dimension (Panel)	H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension	Height	mm	365			1556			-	
	Width	mm	898			1055			-	
	Depth	mm	898			485			-	
Weight	(NET)	kg	25			98			-	
	(GROSS)	kg	31			110			-	
	Panel (NET)	kg	5			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-1014PU3E(140) / U-140PZH3E5

INDOOR		MODEL	S-1014PU3E(140)			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-140PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	16.0
		BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current	A	-	-	-	20.1	19.2	18.4	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.11k	4.11k	4.11k	620	5.85k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2055	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.32	2.74
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	286.6	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 40 / 34			-			-	-
		Power Level dB	62 / 55 / 49			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	18.2	17.4	16.7	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.72k	3.72k	3.72k	600	5.50k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.50	3.27
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	181.2	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 40 / 34			-			-	-
		Power Level dB	62 / 55 / 49			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	29.2 / 6.15k	29.2 / 6.40k	29.1 / 6.65k	-	
Starting current(A) (Cooling/Heating)			-	-	-	20.1 / 18.2	19.2 / 17.4	18.4 / 16.7	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			90 ×2			-	
Moisture removal volume		L/h	6.0 (6.0 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	38.0 / 29.0 / 20.0			-			-	-
	Heating	m³/min (H/M/L)	38.0 / 29.0 / 20.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	319			1416			-	
	Width	mm	840			940			-	
	Depth	mm	840			340			-	
Product dimension (Panel)	H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension	Height	mm	365			1556			-	
	Width	mm	898			1055			-	
	Depth	mm	898			485			-	
Weight	(NET)	kg	25			98			-	
	(GROSS)	kg	31			110			-	
	Panel (NET)	kg	5			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) ×2 / U-71PZH3E5

INDOOR			MODEL	S-3650PU3E(36) ×2			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	7.1	7.1	7.1	-	-	-	2.2	9.0
			BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current		A	-	-	-	8.75	8.35	8.00	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.75k	1.75k	1.75k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	875	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	7.1	-	-	-
		SEER	(W/W)	-	-	-	-	7.7	-		
		Annual consumption	kWh	-	-	-	-	323	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	9.10	8.70	8.35	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.86k	1.86k	1.86k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.8	-		
		Annual consumption	kWh	-	-	-	-	1516	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			50/-			-	-
			Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	18.4 / 3.80k	18.3 / 3.95k	18.3 / 4.15k	-	
Starting current(A) (Cooling/Heating)				-	-	-	8.75 / 9.10	8.35 / 8.70	8.00 / 8.35	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90			-	
Moisture removal volume			L/h	1.4 (0.7 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 ×2 / 13.0 ×2 / 11.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	14.5 ×2 / 13.0 ×2 / 11.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1136			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			65			-	
			(GROSS) kg	25			73			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-3650PU3E(50) ×2 / U-100PZH3E5

INDOOR			MODEL	S-3650PU3E(50) ×2			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	11.1	10.6	10.2	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.27k	2.27k	2.27k	580	3.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1135	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.41	4.41 / A	4.41	5.34	3.42
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	7.8	-	-	-
		Annual consumption	kWh	-	-	-	-	449	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	10.9	10.5	10.1	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.24k	2.24k	2.24k	560	3.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.54	3.64
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-	-	-
		Annual consumption	kWh	-	-	-	-	2283	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	93	93	92	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	24.9 / 5.25k	24.8 / 5.45k	24.8 / 5.70k	-	
Starting current(A) (Cooling/Heating)				-	-	-	11.1 / 10.9	10.6 / 10.5	10.2 / 10.1	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			30			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	3.2 (1.6 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	256			1416			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1556			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			98			-	
			(GROSS) kg	25			110			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-6071PU3E(60) ×2 / U-125PZH3E5

INDOOR		MODEL	S-6071PU3E(60) ×2			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	-	-	-	16.1	15.4	14.7	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.29k	3.29k	3.29k	600	4.55k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 ηsc	%	-	-	-	-	309.3	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	36 / 31 / 28			-			-	-
		Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	14.9	14.4	13.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	186.6	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	36 / 31 / 28			-			-	-
		Power Level dB	51 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	28.0 / 5.85k	28.0 / 6.10k	27.9 / 6.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	16.1 / 14.9	15.4 / 14.4	14.7 / 13.8	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			90 ×2			-	
Moisture removal volume		L/h	3.4 (1.7 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	21.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		256			1416			-	
	Width mm		840			940			-	
	Depth mm		840			340			-	
Product dimension (Panel)	H×W×D mm		33.5 × 950 × 950			-			-	
Packing dimension	Height mm		302			1556			-	
	Width mm		898			1055			-	
	Depth mm		898			485			-	
Weight	(NET) kg		20			98			-	
	(GROSS) kg		26			110			-	
	Panel (NET) kg		5			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-6071PU3E(71) ×2 / U-140PZH3E5

INDOOR		MODEL	S-6071PU3E(71) ×2			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-140PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	16.0
		BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current	A	-	-	-	20.1	19.2	18.4	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.11k	4.11k	4.11k	620	5.85k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2055	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.32	2.74
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 ηsc	%	-	-	-	-	291.0	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	18.2	17.4	16.7	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.72k	3.72k	3.72k	600	5.50k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.5.0	3.27
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	181.6	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			54/-			-	-
		Power Level dB	-			71/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	29.0 / 6.10k	29.0 / 6.35k	28.9 / 6.60k	-	
Starting current(A) (Cooling/Heating)			-	-	-	20.1 / 18.2	19.2 / 17.4	18.4 / 16.7	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			90 ×2			-	
Moisture removal volume		L/h	5.0 (2.5 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 ×2/ 16.0 ×2 / 13.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	22.0 ×2/ 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		256			1416			-	
	Width mm		840			940			-	
	Depth mm		840			340			-	
Product dimension (Panel)	H×W×D mm		33.5 × 950 × 950			-			-	
Packing dimension	Height mm		302			1556			-	
	Width mm		898			1055			-	
	Depth mm		898			485			-	
Weight	(NET) kg		20			98			-	
	(GROSS) kg		26			110			-	
	Panel (NET) kg		5			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) ×3 / U-100PZH3E5

INDOOR			MODEL	S-3650PU3E(36) ×3			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	11.2	10.7	10.3	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.27k	2.27k	2.27k	580	3.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1135	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.41	4.41 / A	4.41	5.34	3.42
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	7.8	-	-	-
		Annual consumption	kWh	-	-	-	-	449	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	11.1	10.6	10.1	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.24k	2.24k	2.24k	560	3.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.54	3.64
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-	-	-
		Annual consumption	kWh	-	-	-	-	2284	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	25.4 / 5.30k	25.3 / 5.50k	25.2 / 5.75k	-	
Starting current(A) (Cooling/Heating)				-	-	-	11.2 / 11.1	10.7 / 10.6	10.3 / 10.1	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	2.1 (0.7 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 ×3 / 13.0 ×3 / 11.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.5 ×3 / 13.0 ×3 / 11.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	256			1416			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1556			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			98			-	
			(GROSS) kg	25			110			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Triple) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-3650PU3E(45) ×3 / U-125PZH3E5

INDOOR			MODEL	S-3650PU3E(45) ×3			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	16.1	15.4	14.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.29k	3.29k	3.29k	600	4.55k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	309.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)		31 / 28 / 27			-		-	-
			Power Level dB		46 / 43 / 42			-		-	-
	Noise outdoor		dB-A (H/L)		-			53 / -		-	-
			Power Level dB		-			70 / -		-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	14.9	14.4	13.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	186.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		31 / 28 / 27			-		-	-
			Power Level dB		46 / 43 / 42			-		-	-
	Noise outdoor		dB-A (H/L)		-			53 / -		-	-
			Power Level dB		-			70 / -		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				-	-	-	28.4 / 5.90k	28.3 / 6.15k	28.2 / 6.45k		-
Starting current(A) (Cooling/Heating)				-	-	-	16.1 / 14.9	15.4 / 14.4	14.7 / 13.8		-
Comp output(W)					-		2.80k	2.80k	2.80k		-
Time Delay fuse max size(A)					-			35			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					60			90 ×2			-
Moisture removal volume			L/h		3.9 (1.3 ×3)			-			-
External static pressure			Pa		-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		15.5 ×3 / 13.0 ×3 / 11.5 ×3			-		-	-
	Heating		m³/min (H/M/L)		15.5 ×3 / 13.0 ×3 / 11.5 ×3			-		-	-
Outdoor Air flow	Cooling		m³/min		-			125.0		-	-
	Heating		m³/min		-			112.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03		-
Product dimension			Height mm		256			1416			-
			Width mm		840			940			-
			Depth mm		840			340			-
Product dimension (Panel)			H×W×D mm		33.5 × 950 × 950			-			-
Packing dimension			Height mm		302			1556			-
			Width mm		898			1055			-
			Depth mm		898			485			-
Weight			(NET) kg		19			98			-
			(GROSS) kg		25			110			-
			Panel (NET) kg		5			-			-
Layers limit (actually)					11 (12)			1 (2)			-
Operation condition			Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
			Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method			flared type			flared type				-
	Standard length m			5 m							-
	Pipe length range m			5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m			45 g/m							-
	Pipe length for additional gas m			20 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(50) ×3 / U-140PZH3E5

INDOOR			MODEL	S-3650PU3E(50) ×3			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	-	-	-	20.1	19.2	18.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.11k	4.11k	4.11k	620	5.85k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2055	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.32	2.74
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	291.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	18.2	17.4	16.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.72k	3.72k	3.72k	600	5.50k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.50	3.27
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	181.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	29.4 / 6.15k	29.3 / 6.40k	29.2 / 6.65k	-	
Starting current(A) (Cooling/Heating)				-	-	-	20.1 / 18.2	19.2 / 17.4	18.4 / 16.7	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	4.8 (1.6 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 ×3 / 13.5 ×3 / 11.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	16.5 ×3 / 13.5 ×3 / 11.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	256			1416			-	
		Width	mm	840			940			-	
		Depth	mm	840			340			-	
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension		Height	mm	302			1556			-	
		Width	mm	898			1055			-	
		Depth	mm	898			485			-	
Weight		(NET)	kg	19			98			-	
		(GROSS)	kg	25			110			-	
		Panel (NET)	kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Double-twin) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) ×4 / U-125PZH3E5

INDOOR			MODEL	S-3650PU3E(36) ×4			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1×3							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	16.3	15.5	14.9	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.29k	3.29k	3.29k	600	4.55k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	310.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 /42			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	15.0	14.4	13.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	186.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 /42			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	28.8 / 5.95k	28.7 / 6.20k	28.6 / 6.50k	-	
Starting current(A) (Cooling/Heating)				-	-	-	16.3 / 15.0	15.5 / 14.4	14.9 / 13.8	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	2.8 (0.7 ×4)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 ×4 / 13.0 ×4 / 11.5 ×4			-			-	-
	Heating		m³/min (H/M/L)	14.5 ×4 / 13.0 ×4 / 11.5 ×4			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	256			1416			-	
		Width	mm	840			940			-	
		Depth	mm	840			340			-	
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension		Height	mm	302			1556			-	
		Width	mm	898			1055			-	
		Depth	mm	898			485			-	
Weight		(NET)	kg	19			98			-	
		(GROSS)	kg	25			110			-	
		Panel (NET)	kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-6071PU3E(71) / U-71PZH3E8

INDOOR		MODEL	S-6071PU3E(71)			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.2	9.0
		BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current	A	-	-	-	2.90	2.80	2.70	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.75k	1.75k	1.75k	380	3.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	875	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.79	2.69
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	327	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	8.0	8.0	8.0	-	-	-	2.0	9.0
		BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current	A	-	-	-	3.05	2.95	2.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.86k	1.86k	1.86k	360	2.85k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.56	3.16
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1517	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 31 / 28			-			-	-
		Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	6.15 / 3.85k	6.15 / 4.00k	6.15 / 4.15k	-	
Starting current(A) (Cooling/Heating)			-	-	-	2.90 / 3.05	2.80 / 2.95	2.70 / 2.85	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			90			-	
Moisture removal volume		L/h	2.5 (2.5 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 / 16.0 / 13.0			-			-	-
	Heating	m³/min (H/M/L)	22.0 / 16.0 / 13.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension		Height mm	256			996			-	
		Width mm	840			940			-	
		Depth mm	840			340			-	
Product dimension (Panel)		H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension		Height mm	302			1136			-	
		Width mm	898			1055			-	
		Depth mm	898			485			-	
Weight		(NET) kg	20			65			-	
		(GROSS) kg	26			73			-	
		Panel (NET) kg	5			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-1014PU3E(100) / U-100PZH3E8

INDOOR			MODEL	S-1014PU3E(100)			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	3.80	3.60	3.45	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.27k	2.27k	2.27k	580	3.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1135	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.41	4.41 / A	4.41	5.34	3.42
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	7.7	-	-	-
		Annual consumption	kWh	-	-	-	-	455	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	45 / 38 / 32			-			-	-
			Power Level dB	60 / 53 / 47			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	3.75	3.55	3.40	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.24k	2.24k	2.24k	560	3.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.54	3.64
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-	-	-
		Annual consumption	kWh	-	-	-	-	2286	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	45 / 38 / 32			-			-	-
			Power Level dB	60 / 53 / 47			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	8.90 / 5.55k	8.85 / 5.80k	8.85 / 6.00k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.80 / 3.75	3.60 / 3.55	3.45 / 3.40	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				90			90 ×2			-	
Moisture removal volume			L/h	2.7 (2.7 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			-	-
	Heating		m³/min (H/M/L)	36.0 / 26.0 / 18.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	319			1416			-	
		Width	mm	840			940			-	
		Depth	mm	840			340			-	
Product dimension (Panel)		H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension		Height	mm	365			1556			-	
		Width	mm	898			1055			-	
		Depth	mm	898			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	31			110			-	
		Panel (NET)	kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-1014PU3E(125) / U-125PZH3E8

INDOOR		MODEL	S-1014PU3E(125)			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	-	-	-	5.45	5.15	5.00	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.29k	3.29k	3.29k	600	4.55k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 ηsc	%	-	-	-	-	303.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 39 / 33			-			-	-
		Power Level dB	61 / 54 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	5.10	4.80	4.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	186.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 39 / 33			-			-	-
		Power Level dB	61 / 54 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	9.90 / 6.15k	9.90 / 6.45k	9.90 / 6.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.45 / 5.10	5.15 / 4.80	5.00 / 4.65	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			90			90 ×2			-	
Moisture removal volume		L/h	4.8 (4.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			-	-
	Heating	m³/min (H/M/L)	37.0 / 27.0 / 19.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	319			1416			-	
	Width	mm	840			940			-	
	Depth	mm	840			340			-	
Product dimension (Panel)	H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension	Height	mm	365			1556			-	
	Width	mm	898			1055			-	
	Depth	mm	898			485			-	
Weight	(NET)	kg	25			98			-	
	(GROSS)	kg	31			110			-	
	Panel (NET)	kg	5			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-1014PU3E(140) / U-140PZH3E8

INDOOR			MODEL	S-1014PU3E(140)			-			-
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-140PZH3E8			-
Branch pipe			MODEL	-						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	-	-	-	6.80	6.45	6.20	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.11k	4.11k	4.11k	620	5.85k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2055	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.32	2.74
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	285.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		47 / 40 / 34			-		-	-
			Power Level dB		62 / 55 / 49			-		-	-
	Noise outdoor		dB-A (H/L)		-			54 / -		-	-
			Power Level dB		-			71 / -		-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	6.20	5.90	5.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.72k	3.72k	3.72k	600	5.50k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.50	3.27
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	181.1	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)		47 / 40 / 34			-		-	-
			Power Level dB		62 / 55 / 49			-		-	-
	Noise outdoor		dB-A (H/L)		-			54 / -		-	-
			Power Level dB		-			71 / -		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				-	-	-	10.4 / 6.45k	10.4 / 6.80k	10.4 / 7.05k		-
Starting current(A) (Cooling/Heating)				-	-	-	6.80 / 6.20	6.45 / 5.90	6.20 / 5.65		-
Comp output(W)					-		3.00k	3.00k	3.00k		-
Time Delay fuse max size(A)					-			15			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					90			90 ×2			-
Moisture removal volume			L/h		6.0 (6.0 ×1)			-			-
External static pressure			Pa		-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		38.0 / 29.0 / 20.0			-		-	-
	Heating		m³/min (H/M/L)		38.0 / 29.0 / 20.0			-		-	-
Outdoor Air flow	Cooling		m³/min		-			129.0		-	-
	Heating		m³/min		-			116.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03		-
Product dimension			Height mm		319			1416			-
			Width mm		840			940			-
			Depth mm		840			340			-
Product dimension (Panel)			H×W×D mm		33.5 × 950 × 950			-			-
Packing dimension			Height mm		365			1556			-
			Width mm		898			1055			-
			Depth mm		898			485			-
Weight			(NET) kg		25			98			-
			(GROSS) kg		31			110			-
			Panel (NET) kg		5			-			-
Layers limit (actually)					11 (12)			1 (2)			-
Operation condition			Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
			Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method			flared type			flared type				-
	Standard length m			5 m							-
	Pipe length range m			5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m			45 g/m							-
	Pipe length for additional gas m			30 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) ×2 / U-71PZH3E8

INDOOR			MODEL	S-3650PU3E(36) ×2			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-71PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	7.1	7.1	7.1	-	-	-	2.2	9.0
			BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current		A	-	-	-	2.90	2.80	2.70	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.75k	1.75k	1.75k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	875	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	7.1	-	-	-
		SEER	(W/W)	-	-	-	-	7.6	-	-	-
		Annual consumption	kWh	-	-	-	-	327	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	3.05	2.95	2.85	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.86k	1.86k	1.86k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.8	-	-	-
		Annual consumption	kWh	-	-	-	-	1516	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	6.30 / 3.90k	6.30 / 4.05k	6.30 / 4.20k	-	
Starting current(A) (Cooling/Heating)				-	-	-	2.90 / 3.05	2.80 / 2.95	2.70 / 2.85	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90			-	
Moisture removal volume			L/h	1.4 (0.7 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 ×2 / 13.0 ×2 / 11.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	14.5 ×2 / 13.0 ×2 / 11.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension			Height mm	256			996			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1136			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			65			-	
			(GROSS) kg	25			73			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-3650PU3E(50) ×2 / U-100PZH3E8

INDOOR			MODEL	S-3650PU3E(50) ×2			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	3.80	3.60	3.45	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.27k	2.27k	2.27k	580	3.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1135	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.41	4.41 / A	4.41	5.34	3.42
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	7.7	-	-	-
		Annual consumption	kWh	-	-	-	-	455	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	3.75	3.55	3.40	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.24k	2.24k	2.24k	560	3.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.54	3.6
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-	-	-
		Annual consumption	kWh	-	-	-	-	2283	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	8.80 / 5.50k	8.80 / 5.75k	8.80 / 5.95k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.80 / 3.75	3.60 / 3.55	3.45 / 3.40	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	3.2 (1.6 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.5 ×2 / 13.5 ×2 / 11.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	256			1416			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1556			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			98			-	
			(GROSS) kg	25			110			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-6071PU3E(60) ×2 / U-125PZH3E8

INDOOR			MODEL	S-6071PU3E(60) ×2			-			-
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-125PZH3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	5.45	5.15	5.00	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.29k	3.29k	3.29k	600	4.55k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	308.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		36 / 31 / 28			-		-	-
			Power Level dB		51 / 46 / 43			-		-	-
	Noise outdoor		dB-A (H/L)		-			53 / -		-	-
			Power Level dB		-			70 / -		-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	5.10	4.80	4.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	186.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)		36 / 31 / 28			-		-	-
			Power Level dB		51 / 46 / 43			-		-	-
	Noise outdoor		dB-A (H/L)		-			53 / -		-	-
			Power Level dB		-			70 / -		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				-	-	-	9.85 / 6.10k	9.85 / 6.40k	9.80 / 6.65k		-
Starting current(A) (Cooling/Heating)				-	-	-	5.45 / 5.10	5.15 / 4.80	5.00 / 4.65		-
Comp output(W)					-		2.80k	2.80k	2.80k		-
Time Delay fuse max size(A)					-			15			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					60			90 ×2			-
Moisture removal volume			L/h		3.4 (1.7 ×2)			-			-
External static pressure			Pa		-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		21.0 ×2/ 16.0 ×2 / 13.0 ×2			-		-	-
	Heating		m³/min (H/M/L)		21.0 ×2/ 16.0 ×2 / 13.0 ×2			-		-	-
Outdoor Air flow	Cooling		m³/min		-			125.0		-	-
	Heating		m³/min		-			112.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03		-
Product dimension			Height mm		256			1416			-
			Width mm		840			940			-
			Depth mm		840			340			-
Product dimension (Panel)			H×W×D mm		33.5 × 950 × 950			-			-
Packing dimension			Height mm		302			1556			-
			Width mm		898			1055			-
			Depth mm		898			485			-
Weight			(NET) kg		20			98			-
			(GROSS) kg		26			110			-
			Panel (NET) kg		5			-			-
Layers limit (actually)					11 (12)			1 (2)			-
Operation condition			Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
			Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method			flared type			flared type				-
	Standard length m			5 m							-
	Pipe length range m			5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m			45 g/m							-
	Pipe length for additional gas m			30 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-6071PU3E(71) ×2 / U-140PZH3E8

INDOOR			MODEL	S-6071PU3E(71)×2			-			-
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-140PZH3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	-	-	-	6.80	6.45	6.20	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.11k	4.11k	4.11k	620	5.85k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2055	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.32	2.74
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	289.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 31 / 28			-			-	-
			Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	6.15	5.85	5.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.72k	3.72k	3.72k	600	5.50k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.50	3.27
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	181.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 31 / 28			-			-	-
			Power Level dB	52 / 46 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	10.3 / 6.40k	10.3 / 6.75k	10.3 / 7.00k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.80 / 6.15	6.45 / 5.85	6.20 / 5.65	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	5.0 (2.5 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	22.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	22.0 ×2 / 16.0 ×2 / 13.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	256			1416			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1556			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	20			98			-	
			(GROSS) kg	26			110			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) ×3 / U-100PZH3E8

INDOOR			MODEL	S-3650PU3E(36) ×3			-			-	
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	3.80	3.65	3.50	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.27k	2.27k	2.27k	580	3.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1135	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.41	4.41 / A	4.41	5.34	3.42
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	7.7	-	-	-
		Annual consumption	kWh	-	-	-	-	455	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	3.75	3.55	3.40	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.24k	2.24k	2.24k	560	3.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.54	3.64
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.9	-	-	-
		Annual consumption	kWh	-	-	-	-	2284	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 28 / 27			-			-	-
			Power Level dB	45 / 43 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	8.95 / 5.55k	8.95 / 5.80k	8.90 / 6.00k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.80 / 3.75	3.65 / 3.55	3.50 / 3.40	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	2.1 (0.7 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 ×3 / 13.0 ×3/ 11.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.5 ×3 / 13.0 ×3/ 11.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	256			1416			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1556			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			98			-	
			(GROSS) kg	25			110			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Triple) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-3650PU3E(45) ×3 / U-125PZH3E8

INDOOR		MODEL	S-3650PU3E(45) ×3			-			-	
PANEL		MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	-	-	-	5.45	5.15	5.00	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.29k	3.29k	3.29k	600	4.55k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1645	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33	3.08
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 ηsc	%	-	-	-	-	308.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	31 / 28 / 27			-			-	-
		Power Level dB	46 / 43 / 42			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	5.10	4.80	4.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.04k	3.04k	3.04k	580	4.75k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52	3.37
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	186.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	31 / 28 / 27			-			-	-
		Power Level dB	46 / 43 / 42			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.0 / 6.15k	9.95 / 6.45k	9.90 / 6.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.45 / 5.10	5.15 / 4.80	5.00 / 4.65	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			60			90 ×2			-	
Moisture removal volume		L/h	3.9 (1.3 ×3)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	15.5 ×3 / 13.0 ×3 / 11.5 ×3			-			-	-
	Heating	m³/min (H/M/L)	15.5 ×3 / 13.0 ×3 / 11.5 ×3			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	256			1416			-	
	Width	mm	840			940			-	
	Depth	mm	840			340			-	
Product dimension (Panel)	H×W×D	mm	33.5 × 950 × 950			-			-	
Packing dimension	Height	mm	302			1556			-	
	Width	mm	898			1055			-	
	Depth	mm	898			485			-	
Weight	(NET)	kg	19			98			-	
	(GROSS)	kg	25			110			-	
	Panel (NET)	kg	5			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-1. 4-Way Cassette Type S-3650PU3E(50) ×3 / U-140PZH3E8

INDOOR			MODEL	S-3650PU3E(50) ×3			-			-
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-140PZH3E8			-
Branch pipe			MODEL	CZ-P3HPC2						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	-	-	-	6.80	6.45	6.20	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.11k	4.11k	4.11k	620	5.85k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2055	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.32	2.74
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	290.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	6.15	5.85	5.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		3.72k	3.72k	3.72k	600	5.50k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.30	4.30 / A	4.30	5.50	3.27
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	181.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	32 / 29 / 27			-			-	-
			Power Level dB	47 / 44 / 42			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	10.5 / 6.45k	10.4 / 6.80k	10.4 / 7.05k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.80 / 6.15	6.45 / 5.85	6.20 / 5.65	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				60			90 ×2			-	
Moisture removal volume			L/h	4.8 (1.6 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.5 ×3 / 13.5 ×3 / 11.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	16.5 ×3 / 13.5 ×3 / 11.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	256			1416			-	
			Width mm	840			940			-	
			Depth mm	840			340			-	
Product dimension (Panel)			H×W×D mm	33.5 × 950 × 950			-			-	
Packing dimension			Height mm	302			1556			-	
			Width mm	898			1055			-	
			Depth mm	898			485			-	
Weight			(NET) kg	19			98			-	
			(GROSS) kg	25			110			-	
			Panel (NET) kg	5			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Double-twin) - Type

1-1-2. PZH3

1-1-2-1. 4-Way Cassette Type S-3650PU3E(36) ×4 / U-125PZH3E8

INDOOR			MODEL	S-3650PU3E(36) ×4			-			-
PANEL			MODEL	Standard type:CZ-KPU3 or CZ-KPU3W / ECONAVI type:CZ-KPU3A or CZ-KPU3AW			-			-
OUTDOOR			MODEL	-			U-125PZH3E8			-
Branch pipe			MODEL	CZ-P155BK1 ×3						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min / Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2 / 14.0
			BTU/h	42700	42700	42700	-	-	-	10900 / 47800
	Current		A	-	-	-	5.45	5.20	5.05	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W		-		3.29k	3.29k	3.29k	600 / 4.55k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1645	-	- / -
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.80	3.80 / A	3.80	5.33 / 3.08
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	- / -
		ηsc	%	-	-	-	-	308.7	-	- / -
		Annual consumption	kWh	-	-	-	-	-	-	- / -
		Class		-	-	-	-	-	-	- / -
	Power factor		%	-	-	-	92	91	91	- / -
	Noise indoor *7		dB-A (H/M/L)		30 / 28 / 27			-		- / -
			Power Level dB		45 / 43 / 42			-		- / -
	Noise outdoor		dB-A (H/L)		-			53 / -		- / -
			Power Level dB		-			70 / -		- / -
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2 / 16.0
			BTU/h	47800	47800	47800	-	-	-	10900 / 54600
	Current		A	-	-	-	5.10	4.80	4.65	- / -
	Input power		W	-	-	-	-	-	-	- / -
			TOTAL W		-		3.04k	3.04k	3.04k	580 / 4.75k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.61	4.61 / A	4.61	5.52 / 3.37
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	- / -
		Tbivalent	°C	-	-	-	-	-10	-	- / -
		ηsh	%	-	-	-	-	186.6	-	- / -
		Annual consumption	kWh	-	-	-	-	-	-	- / -
		elbu(-10°C)	kW	-	-	-	-	0.00	-	- / -
		Class		-	-	-	-	-	-	- / -
	Power factor		%	-	-	-	91	91	91	- / -
	Noise indoor *7		dB-A (H/M/L)		30 / 28 / 27			-		- / -
			Power Level dB		45 / 43 / 42			-		- / -
	Noise outdoor		dB-A (H/L)		-			53 / -		- / -
			Power Level dB		-			70 / -		- / -
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-	-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-	-
Max Current(A) / Max Input power(W)				-	-	-	10.1 / 6.20k	10.1 / 6.50k	10.1 / 6.75k	-
Starting current(A) (Cooling/Heating)				-	-	-	5.45 / 5.10	5.20 / 4.80	5.05 / 4.65	-
Comp output(W)					-		2.80k	2.80k	2.80k	-
Time Delay fuse max size(A)					-			15		-
Network Impedance(ΩMAX.)					-			-		-
Fan motor output (Indoor/Outdoor) W					60			90 ×2		-
Moisture removal volume			L/h		2.8 (0.7 ×4)			-		-
External static pressure			Pa		-			-		-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		14.5 ×4 / 13.0 ×4 / 11.5 ×4			-		- / -
	Heating		m³/min (H/M/L)		14.5 ×4 / 13.0 ×4 / 11.5 ×4			-		- / -
Outdoor Air flow	Cooling		m³/min		-			125.0		- / -
	Heating		m³/min		-			112.0		- / -
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975	-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03	-
Product dimension			Height mm		256			1416		-
			Width mm		840			940		-
			Depth mm		840			340		-
Product dimension (Panel)			H×W×D mm		33.5 × 950 × 950			-		-
Packing dimension			Height mm		302			1556		-
			Width mm		898			1055		-
			Depth mm		898			485		-
Weight			(NET) kg		19			98		-
			(GROSS) kg		25			110		-
			Panel (NET) kg		5			-		-
Layers limit (actually)					11 (12)			1 (2)		-
Operation condition			Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C		-
			Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C		-
Max Working Pressure HP/LP MPa					4.15 / 2.70					-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-
	Connecting method			flared type			flared type			-
	Standard length m			5 m						-
	Pipe length range m			5 ~ 85 m						-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-
	Add gas amount g/m			45 g/m						-
	Pipe length for additional gas m			20 m						-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) / U-36PZH3E5

INDOOR		MODEL	S-3650PF3E(36)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-36PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.2	4.0
		BTU/h	12300	12300	12300	-	-	-	4100	13600
	Current	A	-	-	-	4.20	4.00	3.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.850k	0.850k	0.850k	0.220k	1.120k
	Annual consumption	TOTAL kWh *4	-	-	-	-	425	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.45	3.57
	ErP *6 Pdesign	kW	-	-	-	-	3.6	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	185	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	30/27/22			-			-	-
		Power Level dB	53/50/45			-			-	-
	Noise outdoor	dB-A (H/L)	-			43/-			-	-
		Power Level dB	-			62/-			-	-
HEATING	Capacity	kW	4.0	4.0	4.0	-	-	-	1.2	5.0
		BTU/h	13600	13600	13600	-	-	-	4100	17100
	Current	A	-	-	-	4.70	4.50	4.30	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.960k	0.960k	0.960k	0.220k	1.550k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.17	4.17 / A	4.17	5.45	3.23
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	3.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1120	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	30/27/22			-			-	-
		Power Level dB	53/50/45			-			-	-
	Noise outdoor	dB-A (H/L)	-			44/-			-	-
		Power Level dB	-			64/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.0 / 2.20k	11.0 / 2.30k	11.0 / 2.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.20 / 4.70	4.00 / 4.50	3.85 / 4.30	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			107			40			-	
Moisture removal volume		L/h	0.9 (0.9 ×1)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 / 13.0 / 10.0			-			-	-
	Heating	m³/min (H/M/L)	14.0 / 13.0 / 10.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			34.1			-	-
	Heating	m³/min	-			36.4			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension		Height mm	250			695			-	
		Width mm	800			875			-	
		Depth mm	730			320			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	805			761			-	
		Width mm	1065			1049			-	
		Depth mm	340			460			-	
Weight		(NET) kg	25			42			-	
		(GROSS) kg	30			46			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			3(4)			3(4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(50) / U-50PZH3E5

INDOOR			MODEL	S-3650PF3E(50)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-50PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	5.0	5.0	5.0	-	-	-	1.2	5.6
			BTU/h	17100	17100	17100	-	-	-	4100	19100
	Current		A	-	-	-	6.90	6.60	6.35	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.460k	1.460k	1.460k	0.220k	1.800k
	Annual consumption		TOTAL kWh *4	-	-	-	-	730	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.42	3.42 / A	3.42	5.45	3.11
	ErP *6	Pdesign	kW	-	-	-	-	5.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.1	-	-	-
		Annual consumption	kWh	-	-	-	-	287	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	96	96	96	-	-
	Noise indoor *7		dB-A (H/M/L)	34/30/25			-			-	-
			Power Level dB	57/53/48			-			-	-
	Noise outdoor		dB-A (H/L)	-			46/-			-	-
			Power Level dB	-			64/-			-	-
HEATING	Capacity		kW	5.6	5.6	5.6	-	-	-	1.2	6.5
			BTU/h	19100	19100	19100	-	-	-	4100	22200
	Current		A	-	-	-	7.35	7.00	6.75	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.550k	1.550k	1.550k	0.220k	2.190k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.61	3.61 / A	3.61	5.45	2.97
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.2	-	-	-
		Annual consumption	kWh	-	-	-	-	1333	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	96	96	96	-	-
	Noise indoor *7		dB-A (H/M/L)	34/30/25			-			-	-
			Power Level dB	57/53/48			-			-	-
	Noise outdoor		dB-A (H/L)	-			48/-			-	-
			Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	12.0 / 2.46k	12.0 / 2.57k	12.0 / 2.68k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.90 / 7.35	6.60 / 7.00	6.35 / 6.75	-	
Comp output(W)				-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)				-			20			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			40			-	
Moisture removal volume			L/h	1.9 (1.9 ×1)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.0 / 15.0 / 12.0			-			-	-
	Heating		m³/min (H/M/L)	16.0 / 15.0 / 12.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			42.0			-	-
	Heating		m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	0.76	0.86	-	
Product dimension		Height	mm	250			695			-	
		Width	mm	800			875			-	
		Depth	mm	730			320			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			761			-	
		Width	mm	1065			1049			-	
		Depth	mm	340			460			-	
Weight		(NET)	kg	25			42			-	
		(GROSS)	kg	30			46			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3(4)			3(4)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			15 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(60) / U-60PZH3E5

INDOOR		MODEL	S-6071PF3E(60)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-60PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.7	5.7	5.7	-	-	-	1.2	6.3
		BTU/h	19400	19400	19400	-	-	-	4100	21500
	Current	A	-	-	-	7.25	6.95	6.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.550k	1.550k	1.550k	0.220k	2.000k
	Annual consumption	TOTAL kWh *4	-	-	-	-	775	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.68	3.68 / A	3.68	5.45	3.15
	ErP *6 Pdesign	kW	-	-	-	-	5.7	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	281	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	30/26/23			-			-	-
		Power Level dB	53/49/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	7.0	7.0	7.0	-	-	-	1.2	8.0
		BTU/h	23900	23900	23900	-	-	-	4100	27300
	Current	A	-	-	-	8.65	8.30	7.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.870k	1.870k	1.870k	0.220k	2.400k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.74	3.74 / A	3.74	5.45	3.33
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1495	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	30/26/23			-			-	-
		Power Level dB	53/49/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			69/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	16.4 / 3.25k	16.4 / 3.39k	16.4 / 3.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.25 / 8.65	6.95 / 8.30	6.65 / 7.95	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			165			40			-	
Moisture removal volume		L/h	1.7 (1.7 ×1)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
	Heating	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension		Height mm	250			695			-	
		Width mm	1000			875			-	
		Depth mm	730			320			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	805			761			-	
		Width mm	1265			1049			-	
		Depth mm	340			460			-	
Weight		(NET) kg	30			43			-	
		(GROSS) kg	36			47			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			3(4)			3(4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(71) / U-71PZH3E5

INDOOR			MODEL	S-6071PF3E(71)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	6.8	6.8	6.8	-	-	-	2.2	7.8
			BTU/h	23200	23200	23200	-	-	-	7500	26600
	Current		A	-	-	-	9.00	8.60	8.25	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.82k	1.82k	1.82k	390	3.24k
	Annual consumption		TOTAL kWh *4	-	-	-	-	910	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.74	3.74 / A	3.74	5.64	2.41
	ErP *6	Pdesign	kW	-	-	-	-	6.8	-	-	-
		SEER	(W/W)	-	-	-	-	7.1	-	-	-
		Annual consumption	kWh	-	-	-	-	332	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	7.5	7.5	7.5	-	-	-	2.0	9.0
			BTU/h	25600	25600	25600	-	-	-	6800	30700
	Current		A	-	-	-	9.00	8.60	8.35	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.86k	1.86k	1.86k	370	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.03	4.03 / A	4.03	5.41	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.7	-	-	-
		Annual consumption	kWh	-	-	-	-	1393	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	94	94	93	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	19.6 / 4.05k	19.6 / 4.20k	19.6 / 4.40k	-	
Starting current(A) (Cooling/Heating)				-	-	-	9.00 / 9.00	8.60 / 8.60	8.25 / 8.35	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			90			-	
Moisture removal volume			L/h	2.7 (2.7 ×1)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
	Heating		m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension		Height	mm	250			996			-	
		Width	mm	1000			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1136			-	
		Width	mm	1265			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	30			65			-	
		(GROSS)	kg	36			73			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-1014PF3E(100) / U-100PZH3E5

INDOOR		MODEL	S-1014PF3E(100)			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-100PZH3E5			-		
Branch pipe		MODEL	-								
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz					
		V	220V	230V	240V	220V	230V	240V		Min	Max
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-		3.1	11.4
		BTU/h	32400	32400	32400	-	-	-		10600	38900
	Current	A	-	-	-	11.1	10.8	10.3		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			2.28k	2.28k	2.28k		610	4.04k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1140	-		-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.17	4.17 / A	4.17		5.08	2.82
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-		-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.4	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	447	-		-	-
	ErP *6 Class		-	-	-	-	A++	-		-	-
	Power factor	%	-	-	-	93	92	92		-	-
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-				-	-
		Power Level dB	56 / 52 / 48			-				-	-
	Noise outdoor	dB-A (H/L)	-			52 / -				-	-
		Power Level dB	-			69 / -				-	-
HEATING	Capacity	kW	10.8	10.8	10.8	-	-	-		3.1	13.5
		BTU/h	36800	36800	36800	-	-	-		10600	46100
	Current	A	-	-	-	13.3	12.7	12.2		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			2.72k	2.72k	2.72k		590	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.97	3.97 / A	3.97		5.25	3.07
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	7.8	-		-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-		-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.5	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2424	-		-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-		-	-
	ErP *6 Class		-	-	-	-	A+	-		-	-
	Power factor	%	-	-	-	93	93	93		-	-
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-				-	-
		Power Level dB	56 / 52 / 48			-				-	-
	Noise outdoor	dB-A (H/L)	-			52 / -				-	-
		Power Level dB	-			69 / -				-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
Max Current(A) / Max Input power(W)			-	-	-	26.8 / 5.55k	26.8 / 5.75k	26.8 / 6.00k		-	
Starting current(A) (Cooling/Heating)			-	-	-	11.1 / 13.3	10.8 / 12.7	10.3 / 12.2		-	
Comp output(W)			-			2.50k	2.50k	2.50k		-	
Time Delay fuse max size(A)			-			35				-	
Network Impedance(ΩMAX.)			-			-				-	
Fan motor output (Indoor/Outdoor) W			259			90 ×2				-	
Moisture removal volume		L/h	3.2 (3.2 ×1)			-				-	
External static pressure		Pa	40 (MIN10 - MAX150)			-				-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-				-	-
	Heating	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-				-	-
Outdoor Air flow	Cooling	m³/min	-			118.0				-	-
	Heating	m³/min	-			108.0				-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975		-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03		-	
Product dimension	Height	mm	250			1416				-	
	Width	mm	1400			940				-	
	Depth	mm	730			340				-	
Product dimension (Panel)	H×W×D	mm	-			-				-	
Packing dimension	Height	mm	805			1556				-	
	Width	mm	1665			1055				-	
	Depth	mm	340			485				-	
Weight	(NET)	kg	39			98				-	
	(GROSS)	kg	45			110				-	
	Panel (NET)	kg	-			-				-	
Layers limit (actually)			3 (4)			1 (2)				-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C				-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C				-	
Max Working Pressure HP/LP MPa			4.15 / 2.70							-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-	
	Connecting method		flared type			flared type				-	
	Standard length m		5 m							-	
	Pipe length range m		5 ~ 85 m							-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)							-	
	Add gas amount g/m		45 g/m							-	
	Pipe length for additional gas m		30 m							-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-1014PF3E(125) / U-125PZH3E5

INDOOR		MODEL	S-1014PF3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	13.6
		BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current	A	-	-	-	16.5	15.8	15.1	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.38k	3.38k	3.38k	640	4.54k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1690	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.58	3.58 / A	3.58	5.00	3.00
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	281.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	13.5	13.5	13.5	-	-	-	3.2	15.4
		BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current	A	-	-	-	19.1	18.2	17.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.90k	3.90k	3.90k	620	5.04k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.46	3.46 / B	3.46	5.16	3.06
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	170.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	29.8 / 6.15k	29.8 / 6.40k	29.8 / 6.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	16.5 / 19.1	15.8 / 18.2	15.1 / 17.5	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			259			90 ×2			-	
Moisture removal volume		L/h	4.1 (4.1 ×1)			-			-	
External static pressure		Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	250			1416			-	
	Width	mm	1400			940			-	
	Depth	mm	730			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1556			-	
	Width	mm	1665			1055			-	
	Depth	mm	340			485			-	
Weight	(NET)	kg	39			98			-	
	(GROSS)	kg	45			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-1014PF3E(140) / U-140PZH3E5

INDOOR			MODEL	S-1014PF3E(140)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	15.3
			BTU/h	45700	45700	45700	-	-	-	11300	52200
	Current		A	-	-	-	19.6	18.7	17.9	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.96k	3.96k	3.96k	790	5.90k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1980	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / A	3.38	4.18	2.59
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	275.9	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 29			-			-	-
			Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	15.5	15.5	15.5	-	-	-	3.3	17.4
			BTU/h	52900	52900	52900	-	-	-	11300	59400
	Current		A	-	-	-	22.0	21.1	20.2	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.51k	4.51k	4.51k	770	5.55k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.44	3.44 / B	3.44	4.29	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	171.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 29			-			-	-
			Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	30.8 / 6.40k	30.8 / 6.65k	30.8 / 6.90k	-	
Starting current(A) (Cooling/Heating)				-	-	-	19.6 / 22.0	18.7 / 21.1	17.9 / 20.2	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				259			90 ×2			-	
Moisture removal volume			L/h	4.9 (4.9 ×1)			-			-	
External static pressure			Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
	Heating		m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	2.06	4.03	-	
Product dimension			Height mm	250			1416			-	
			Width mm	1400			940			-	
			Depth mm	730			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	805			1556			-	
			Width mm	1665			1055			-	
			Depth mm	340			485			-	
Weight			(NET) kg	39			98			-	
			(GROSS) kg	45			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) ×2 / U-71PZH3E5

INDOOR		MODEL	S-3650PF3E(36) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.2	7.8
		BTU/h	23200	23200	23200	-	-	-	7500	26600
	Current	A	-	-	-	9.45	9.05	8.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.87k	1.87k	1.87k	440	3.29k
	Annual consumption	TOTAL kWh *4	-	-	-	-	935	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.64	3.64 / A	3.64	5.00	2.37
	ErP *6 Pdesign	kW	-	-	-	-	6.8	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	370	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	90	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 27 / 22			-			-	-
		Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	7.5	7.5	7.5	-	-	-	2.0	9.0
		BTU/h	25600	25600	25600	-	-	-	6800	30700
	Current	A	-	-	-	9.45	9.05	8.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.91k	1.91k	1.91k	420	2.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.93	3.93 / A	3.93	4.76	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1480	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	92	92	91	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 27 / 22			-			-	-
		Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	20.4 / 4.07k	20.4 / 4.22k	20.4 / 4.42k	-	
Starting current(A) (Cooling/Heating)			-	-	-	9.45 / 9.45	9.05 / 9.05	8.65 / 8.75	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			107			90			-	
Moisture removal volume		L/h	1.8 (0.9 ×2)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×2 / 13.0 ×2 / 10.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×2 / 13.0 ×2 / 10.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height	mm	250			996			-	
	Width	mm	800			940			-	
	Depth	mm	730			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1136			-	
	Width	mm	1065			1055			-	
	Depth	mm	340			485			-	
Weight	(NET)	kg	25			65			-	
	(GROSS)	kg	30			73			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(50) ×2 / U-100PZH3E5

INDOOR			MODEL	S-3650PF3E(50) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	11.4
			BTU/h	32400	32400	32400	-	-	-	10600	38900
	Current		A	-	-	-	11.8	11.3	10.9	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.36k	2.36k	2.36k	690	4.12k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1180	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.03	4.03 / A	4.03	4.49	2.77
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.8	-	-	-
		Annual consumption	kWh	-	-	-	-	486	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	90	-	-
	Noise indoor *7		dB-A (H/M/L)	34 / 30 / 25			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	10.8	10.8	10.8	-	-	-	3.1	13.5
			BTU/h	36800	36800	36800	-	-	-	10600	46100
	Current		A	-	-	-	13.8	13.2	12.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.80k	2.80k	2.80k	670	4.48k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	4.63	3.01
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.2	-	-	-
		Annual consumption	kWh	-	-	-	-	2557	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	92	92	91	-	-
	Noise indoor *7		dB-A (H/M/L)	34 / 30 / 25			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	26.9 / 5.55k	26.9 / 5.75k	26.9 / 6.00k	-	
Starting current(A) (Cooling/Heating)				-	-	-	11.8 / 13.8	11.3 / 13.2	10.9 / 12.8	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			90 ×2			-	
Moisture removal volume			L/h	3.8 (1.9 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.0 ×2 / 15.0 ×2 / 12.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.0 ×2 / 15.0 ×2 / 12.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	800			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1065			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	30			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(60) ×2 / U-125PZH3E5

INDOOR			MODEL	S-6071PF3E(60)×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.6
			BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current		A	-	-	-	16.6	15.8	15.2	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.39k	3.39k	3.39k	640	4.54k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1695	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.57	3.57 / A	3.57	5.00	3.00
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	281.9	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	13.5	13.5	13.5	-	-	-	3.2	15.4
			BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current		A	-	-	-	18.9	18.1	17.3	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.91k	3.91k	3.91k	620	5.05k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.45	3.45 / B	3.45	5.16	3.05
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	167.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	94	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.3 / 6.45k	31.3 / 6.70k	31.3 / 7.00k	-	
Starting current(A) (Cooling/Heating)				-	-	-	16.6 / 18.9	15.8 / 18.1	15.2 / 17.3	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			90 ×2			-	
Moisture removal volume			L/h	3.4 (1.7 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	1000			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1265			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	30			98			-	
		(GROSS)	kg	36			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(71) ×2 / U-140PZH3E5

INDOOR			MODEL	S-6071PF3E(71)×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	15.3
			BTU/h	45700	45700	45700	-	-	-	11300	52200
	Current		A	-	-	-	19.4	18.5	17.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.96k	3.96k	3.96k	790	5.90k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1980	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / A	3.38	4.18	2.59
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	279.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	15.5	15.5	15.5	-	-	-	3.3	17.4
			BTU/h	52900	52900	52900	-	-	-	11300	59400
	Current		A	-	-	-	21.8	20.9	20.2	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.51k	4.51k	4.51k	770	5.55k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.44	3.44 / B	3.44	4.29	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	171.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	94	94	93	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	32.3 / 6.70k	32.3 / 6.95k	32.3 / 7.20k	-	
Starting current(A) (Cooling/Heating)				-	-	-	19.4 / 21.8	18.5 / 20.9	17.7 / 20.2	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			90 ×2			-	
Moisture removal volume			L/h	5.4 (2.7 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	1000			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1265			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	30			98			-	
		(GROSS)	kg	36			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) ×3 / U-100PZH3E5

INDOOR			MODEL	S-3650PF3E(36)×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	11.4
			BTU/h	32400	32400	32400	-	-	-	10600	38900
	Current		A	-	-	-	11.8	11.3	10.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.34k	2.34k	2.34k	680	4.10k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1170	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	4.56	2.78
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.6	-	-	-
		Annual consumption	kWh	-	-	-	-	500	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	90	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	10.8	10.8	10.8	-	-	-	3.1	13.5
			BTU/h	36800	36800	36800	-	-	-	10600	46100
	Current		A	-	-	-	13.9	13.3	12.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.79k	2.79k	2.79k	660	4.46k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.87	3.87 / A	3.87	4.70	3.03
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.2	-	-	-
		Annual consumption	kWh	-	-	-	-	2556	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	28.3 / 5.80k	28.3 / 6.00k	28.3 / 6.25k	-	
Starting current(A) (Cooling/Heating)				-	-	-	11.8 / 13.9	11.3 / 13.3	10.8 / 12.8	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			90 ×2			-	
Moisture removal volume			L/h	2.7 (0.9 ×3)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	800			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1065			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	30			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(45) ×3 / U-125PZH3E5

INDOOR			MODEL	S-3650PF3E(45) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.6
			BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current		A	-	-	-	16.9	16.2	15.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.42k	3.42k	3.42k	680	4.58k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1710	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.54	3.54 / A	3.54	4.71	2.97
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	273.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	13.5	13.5	13.5	-	-	-	3.2	15.4
			BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current		A	-	-	-	19.5	18.6	17.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.94k	3.94k	3.94k	650	5.08k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.43	3.43 / B	3.43	4.92	3.03
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	163.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.3 / 6.40k	31.3 / 6.65k	31.3 / 6.95k	-	
Starting current(A) (Cooling/Heating)				-	-	-	16.9 / 19.5	16.2 / 18.6	15.5 / 17.8	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			90 ×2			-	
Moisture removal volume			L/h	2.7 (0.9 ×3)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	800			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1065			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	30			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Triple) - Type

1-1-2. PZH3

1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(50) ×3 / U-140PZH3E5

INDOOR			MODEL	S-3650PF3E(50) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	15.3
			BTU/h	45700	45700	45700	-	-	-	11300	52200
	Current		A	-	-	-	20.0	19.2	18.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.01k	4.01k	4.01k	840	5.90k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2005	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.34	3.34 / A	3.34	3.93	2.59
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	266.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)		34 / 30 / 25			-		-	-
			Power Level dB		57 / 53 / 48			-		-	-
	Noise outdoor		dB-A (H/L)		-			54 / -		-	-
			Power Level dB		-			71 / -		-	-
HEATING	Capacity		kW	15.5	15.5	15.5	-	-	-	3.3	17.4
			BTU/h	52900	52900	52900	-	-	-	11300	59400
	Current		A	-	-	-	22.5	21.5	20.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.55k	4.55k	4.55k	820	5.60k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / B	3.41	4.02	3.11
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	164.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		34 / 30 / 25			-		-	-
			Power Level dB		57 / 53 / 48			-		-	-
	Noise outdoor		dB-A (H/L)		-			54 / -		-	-
			Power Level dB		-			71 / -		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	32.3 /6.65k	32.3 /6.90k	32.3 /7.15k	-	
Starting current(A) (Cooling/Heating)				-	-	-	20.0 / 22.5	19.2 / 21.5	18.4 / 20.6	-	
Comp output(W)					-		3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)					-			40		-	
Network Impedance(ΩMAX.)					-			-		-	
Fan motor output (Indoor/Outdoor) W					107			90 ×2		-	
Moisture removal volume			L/h		5.7 (1.9 ×3)			-		-	
External static pressure			Pa		30 (MIN10 - MAX150)			-		-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)		16.0 ×3 / 15.0 ×3 / 12.0 ×3			-		-	-
	Heating		m³/min (H/M/L)		16.0 ×3 / 15.0 ×3 / 12.0 ×3			-		-	-
Outdoor Air flow	Cooling		m³/min		-			129.0		-	-
	Heating		m³/min		-			116.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03	-	
Product dimension		Height	mm		250			1416		-	
		Width	mm		800			940		-	
		Depth	mm		730			340		-	
Product dimension (Panel)		H×W×D	mm		-			-		-	
Packing dimension		Height	mm		805			1556		-	
		Width	mm		1065			1055		-	
		Depth	mm		340			485		-	
Weight		(NET)	kg		25			98		-	
		(GROSS)	kg		30			110		-	
		Panel (NET)	kg		-			-		-	
Layers limit (actually)					3 (4)			1 (2)		-	
Operation condition		Cool (DBT)			18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C		-	
		Heat (DBT)			16°C ~ 30°C			-20°C ~ 24°C		-	
Max Working Pressure HP/LP MPa					4.15 / 2.70					-	
PIPING	Pipe port diameter mm (inch)				(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)		-	
	Pipe diameter mm (inch)				(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)					-	
	Connecting method				flared type			flared type		-	
	Standard length m				5 m					-	
	Pipe length range m				5 ~ 85 m					-	
	Indoor unit & Outdoor unit height difference m				15 m(OD located lower) / 30 m(OD located higher)					-	
	Add gas amount g/m				45 g/m					-	
	Pipe length for additional gas m				30 m					-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Double-twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) ×4 / U-125PZH3E5

INDOOR			MODEL	S-3650PF3E(36) ×4			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1 ×3							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.6
			BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current		A	-	-	-	17.4	16.6	15.9	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.48k	3.48k	3.48k	740	4.64k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1740	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / A	3.48	4.32	2.93
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	262.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	13.5	13.5	13.5	-	-	-	3.2	15.4
			BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current		A	-	-	-	20.0	19.1	18.3	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.00k	4.00k	4.00k	720	5.15k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / C	3.38	4.44	2.99
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	156.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	32.7 / 6.60k	32.7 / 6.85k	32.7 / 7.15k	-	
Starting current(A) (Cooling/Heating)				-	-	-	17.4 / 20.0	16.6 / 19.1	15.9 / 18.3	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			90 ×2			-	
Moisture removal volume			L/h	3.6 (0.9 ×4)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×4 / 13.0 ×4 / 10.0 ×4			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×4 / 13.0 ×4 / 10.0 ×4			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	800			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1065			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	30			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(71) / U-71PZH3E8

INDOOR		MODEL	S-6071PF3E(71)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.2	7.8
		BTU/h	23200	23200	23200	-	-	-	7500	26600
	Current	A	-	-	-	3.00	2.90	2.80	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.82k	1.82k	1.82k	390	3.24k
	Annual consumption	TOTAL kWh *4	-	-	-	-	910	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.74	3.74 / A	3.74	5.64	2.41
	ErP *6 Pdesign	kW	-	-	-	-	6.8	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	338	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	7.5	7.5	7.5	-	-	-	2.0	9.0
		BTU/h	25600	25600	25600	-	-	-	6800	30700
	Current	A	-	-	-	3.05	2.95	2.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.86k	1.86k	1.86k	370	2.85k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.03	4.03 / A	4.03	5.41	3.16
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1394	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 26 / 23			-			-	-
		Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	6.70 / 4.15k	6.70 / 4.30k	6.70 / 4.45k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.00 / 3.05	2.90 / 2.95	2.80 / 2.85	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			165			90			-	
Moisture removal volume		L/h	2.7 (2.7 ×1)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
	Heating	m³/min (H/M/L)	21.0 / 19.0 / 15.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension		Height mm	250			996			-	
		Width mm	1000			940			-	
		Depth mm	730			340			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	805			1136			-	
		Width mm	1265			1055			-	
		Depth mm	340			485			-	
Weight		(NET) kg	30			65			-	
		(GROSS) kg	36			73			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-1014PF3E(100) / U-100PZH3E8

INDOOR		MODEL	S-1014PF3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.1	11.4
		BTU/h	32400	32400	32400	-	-	-	10600	38900
	Current	A	-	-	-	3.80	3.60	3.50	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.28k	2.28k	2.28k	610	4.04k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1140	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.17	4.17 / A	4.17	5.08	2.82
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	451	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
HEATING	Capacity	kW	10.8	10.8	10.8	-	-	-	3.1	13.5
		BTU/h	36800	36800	36800	-	-	-	10600	46100
	Current	A	-	-	-	4.50	4.30	4.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.72k	2.72k	2.72k	590	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.97	3.97 / A	3.97	5.25	3.07
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2424	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	33 / 29 / 25			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	9.35 / 5.80k	9.35 / 6.05k	9.35 / 6.25k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.80 / 4.50	3.60 / 4.30	3.50 / 4.15	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			259			90 ×2			-	
Moisture removal volume		L/h	3.2 (3.2 ×1)			-			-	
External static pressure		Pa	40 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-			-	-
	Heating	m³/min (H/M/L)	32.0 / 26.0 / 21.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	250			1416			-	
	Width	mm	1400			940			-	
	Depth	mm	730			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1556			-	
	Width	mm	1665			1055			-	
	Depth	mm	340			485			-	
Weight	(NET)	kg	39			98			-	
	(GROSS)	kg	45			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-1014PF3E(125) / U-125PZH3E8

INDOOR		MODEL	S-1014PF3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	13.6
		BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current	A	-	-	-	5.60	5.30	5.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.38k	3.38k	3.38k	640	4.54k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1690	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.58	3.58 / A	3.58	5.00	3.00
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	281.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	91	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	13.5	13.5	13.5	-	-	-	3.2	15.4
		BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current	A	-	-	-	6.45	6.10	5.90	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.90k	3.90k	3.90k	620	5.04k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.46	3.46 / B	3.46	5.16	3.06
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	170.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	58 / 54 / 50			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.4 / 6.40k	10.4 / 6.70k	10.4 / 6.95k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.60 / 6.45	5.30 / 6.10	5.15 / 5.90	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			259			90 ×2			-	
Moisture removal volume		L/h	4.1 (4.1 ×1)			-			-	
External static pressure		Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 29.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension		Height mm	250			1416			-	
		Width mm	1400			940			-	
		Depth mm	730			340			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	805			1556			-	
		Width mm	1665			1055			-	
		Depth mm	340			485			-	
Weight		(NET) kg	39			98			-	
		(GROSS) kg	45			110			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			3 (4)			1 (2)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-1014PF3E(140) / U-140PZH3E8

INDOOR		MODEL	S-1014PF3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	15.3
		BTU/h	45700	45700	45700	-	-	-	11300	52200
	Current	A	-	-	-	6.60	6.30	6.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.96k	3.96k	3.96k	790	5.90k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1980	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / A	3.38	4.18	2.59
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 ηsc	%	-	-	-	-	275.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 29			-			-	-
		Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	15.5	15.5	15.5	-	-	-	3.3	17.4
		BTU/h	52900	52900	52900	-	-	-	11300	59400
	Current	A	-	-	-	7.55	7.15	6.90	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.51k	4.51k	4.51k	770	5.55k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.44	3.44 / B	3.44	4.29	3.14
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	170.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 29			-			-	-
		Power Level dB	62 / 58 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.9 / 6.70k	10.9 / 7.05k	10.9 / 7.30k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.60 / 7.55	6.30 / 7.15	6.05 / 6.90	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			259			90 ×2			-	
Moisture removal volume		L/h	4.9 (4.9 ×1)			-			-	
External static pressure		Pa	50 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
	Heating	m³/min (H/M/L)	36.0 / 32.0 / 25.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	250			1416			-	
	Width	mm	1400			940			-	
	Depth	mm	730			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1556			-	
	Width	mm	1665			1055			-	
	Depth	mm	340			485			-	
Weight	(NET)	kg	39			98			-	
	(GROSS)	kg	45			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) ×2 / U-71PZH3E8

INDOOR		MODEL	S-3650PF3E(36) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.2	7.8
		BTU/h	23200	23200	23200	-	-	-	7500	26600
	Current	A	-	-	-	3.10	3.00	2.90	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.87k	1.87k	1.87k	440	3.29k
	Annual consumption	TOTAL kWh *4	-	-	-	-	935	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.64	3.64 / A	3.64	5.00	2.37
	ErP *6 Pdesign	kW	-	-	-	-	6.8	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	376	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 27 / 22			-			-	-
		Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	7.5	7.5	7.5	-	-	-	2.0	9.0
		BTU/h	25600	25600	25600	-	-	-	6800	30700
	Current	A	-	-	-	3.20	3.05	2.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.91k	1.91k	1.91k	420	2.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.93	3.93 / A	3.93	4.76	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1480	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 27 / 22			-			-	-
		Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	6.90 / 4.17k	6.90 / 4.32k	6.90 / 4.47k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.10 / 3.20	3.00 / 3.05	2.90 / 2.95	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			107			90			-	
Moisture removal volume		L/h	1.8 (0.9 ×2)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×2 / 13.0 ×2 / 10.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×2 / 13.0 ×2 / 10.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height	mm	250			996			-	
	Width	mm	800			940			-	
	Depth	mm	730			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	805			1136			-	
	Width	mm	1065			1055			-	
	Depth	mm	340			485			-	
Weight	(NET)	kg	25			65			-	
	(GROSS)	kg	30			73			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			3 (4)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(50) ×2 / U-100PZH3E8

INDOOR			MODEL	S-3650PF3E(50) ×2			-			-
PANEL			MODEL	-			-			-
OUTDOOR			MODEL	-			U-100PZH3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	11.4
			BTU/h	32400	32400	32400	-	-	-	10600	38900
	Current		A	-	-	-	4.00	3.80	3.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		2.36k	2.36k	2.36k	690	4.12k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1180	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.03	4.03 / A	4.03	4.49	2.77
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.7	-	-	-
		Annual consumption	kWh	-	-	-	-	490	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	90	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)		34 / 30 / 25			-		-	-
			Power Level dB		57 / 53 / 48			-		-	-
	Noise outdoor		dB-A (H/L)		-			52 / -		-	-
			Power Level dB		-			69 / -		-	-
HEATING	Capacity		kW	10.8	10.8	10.8	-	-	-	3.1	13.5
			BTU/h	36800	36800	36800	-	-	-	10600	46100
	Current		A	-	-	-	4.65	4.50	4.35	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		2.80k	2.80k	2.80k	670	4.48k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	4.63	3.01
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.2	-	-	-
		Annual consumption	kWh	-	-	-	-	2557	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	91	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)		34 / 30 / 25			-		-	-
			Power Level dB		57 / 53 / 48			-		-	-
	Noise outdoor		dB-A (H/L)		-			52 / -		-	-
			Power Level dB		-			69 / -		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				-	-	-	9.45 / 5.80k	9.45 / 6.05k	9.45 / 6.25k		-
Starting current(A) (Cooling/Heating)				-	-	-	4.00 / 4.65	3.80 / 4.50	3.65 / 4.35		-
Comp output(W)					-		2.50k	2.50k	2.50k		-
Time Delay fuse max size(A)					-			15			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					107			90 ×2			-
Moisture removal volume			L/h		3.8 (1.9 ×2)			-			-
External static pressure			Pa		30 (MIN10 - MAX150)			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		16.0 ×2 / 15.0 ×2 / 12.0 ×2			-		-	-
	Heating		m³/min (H/M/L)		16.0 ×2 / 15.0 ×2 / 12.0 ×2			-		-	-
Outdoor Air flow	Cooling		m³/min		-			118.0		-	-
	Heating		m³/min		-			108.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03		-
Product dimension			Height mm		250			1416			-
			Width mm		800			940			-
			Depth mm		730			340			-
Product dimension (Panel)			H×W×D mm		-			-			-
Packing dimension			Height mm		805			1556			-
			Width mm		1065			1055			-
			Depth mm		340			485			-
Weight			(NET) kg		25			98			-
			(GROSS) kg		30			110			-
			Panel (NET) kg		-			-			-
Layers limit (actually)					3 (4)			1 (2)			-
Operation condition			Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
			Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)				(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-
	Pipe diameter mm (inch)				(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-
	Connecting method				flared type			flared type			-
	Standard length m				5 m						-
	Pipe length range m				5 ~ 85 m						-
	Indoor unit & Outdoor unit height difference m				15 m(OD located lower) / 30 m(OD located higher)						-
	Add gas amount g/m				45 g/m						-
	Pipe length for additional gas m				30 m						-

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Twin) - Type

1-1-2. PZH3

1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(60) ×2 / U-125PZH3E8

INDOOR			MODEL	S-6071PF3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.6
			BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current		A	-	-	-	5.55	5.30	5.15	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.39k	3.39k	3.39k	640	4.54k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1695	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.57	3.57 / A	3.57	5.00	3.00
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	280.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	13.5	13.5	13.5	-	-	-	3.2	15.4
			BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current		A	-	-	-	6.40	6.05	5.90	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.91k	3.91k	3.91k	620	5.05k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.45	3.45 / B	3.45	5.16	3.05
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	167.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	10.9 / 6.70k	10.9 / 7.00k	10.9 / 7.25k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.55 / 6.40	5.30 / 6.05	5.15 / 5.90	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			90 ×2			-	
Moisture removal volume			L/h	3.4 (1.7 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	1000			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1265			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	30			98			-	
		(GROSS)	kg	36			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-6071PF3E(71) ×2 / U-140PZH3E8

INDOOR			MODEL	S-6071PF3E(71) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	15.3
			BTU/h	45700	45700	45700	-	-	-	11300	52200
	Current		A	-	-	-	6.45	6.20	6.00	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.96k	3.96k	3.96k	790	5.90k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1980	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / A	3.38	4.18	2.59
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	278.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	15.5	15.5	15.5	-	-	-	3.3	17.4
			BTU/h	52900	52900	52900	-	-	-	11300	59400
	Current		A	-	-	-	7.35	7.10	6.80	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.51k	4.51k	4.51k	770	5.55k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.44	3.44 / B	3.44	4.29	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	171.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 26 / 23			-			-	-
			Power Level dB	53 / 49 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	11.4 / 7.00k	11.4 / 7.35k	11.4 / 7.60k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.45 / 7.35	6.20 / 7.10	6.00 / 6.80	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				165			90 ×2			-	
Moisture removal volume			L/h	5.4 (2.7 ×2)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 19.0 ×2 / 15.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	1000			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1265			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	30			98			-	
		(GROSS)	kg	36			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Triple) - Type

1-1-2. PZH3

1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) ×3 / U-100PZH3E8

INDOOR			MODEL	S-3650PF3E(36) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	11.4
			BTU/h	32400	32400	32400	-	-	-	10600	38900
	Current		A	-	-	-	3.95	3.75	3.60	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.34k	2.34k	2.34k	680	4.10k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1170	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	4.56	2.78
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.6	-	-	-
		Annual consumption	kWh	-	-	-	-	504	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	90	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	10.8	10.8	10.8	-	-	-	3.1	13.5
			BTU/h	36800	36800	36800	-	-	-	10600	46100
	Current		A	-	-	-	4.70	4.45	4.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.79k	2.79k	2.79k	660	4.46k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.87	3.87 / A	3.87	4.70	3.03
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.2	-	-	-
		Annual consumption	kWh	-	-	-	-	2556	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	90	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	9.90 / 6.05k	9.90 / 6.30k	9.90 / 6.50k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.95 / 4.70	3.75 / 4.45	3.60 / 4.30	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			90 ×2			-	
Moisture removal volume			L/h	2.7 (0.9 ×3)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	800			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1065			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	30			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(45) ×3 / U-125PZH3E8

INDOOR			MODEL	S-3650PF3E(45) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E8			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	13.6
			BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current		A	-	-	-	5.70	5.40	5.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.42k	3.42k	3.42k	680	4.58k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1710	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.54	3.54 / A	3.54	4.71	2.97
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	272.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	90	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	13.5	13.5	13.5	-	-	-	3.2	15.4
			BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current		A	-	-	-	6.60	6.25	6.00	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.94k	3.94k	3.94k	650	5.08k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.43	3.43 / B	3.43	4.92	3.03
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	163.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	30 / 27 / 22			-			-	-
			Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	10.9 / 6.65k	10.9 / 6.95k	10.9 / 7.20k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.70 / 6.60	5.40 / 6.25	5.30 / 6.00	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				107			90 ×2			-	
Moisture removal volume			L/h	2.7 (0.9 ×3)			-			-	
External static pressure			Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×3 / 13.0 ×3 / 10.0 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	250			1416			-	
		Width	mm	800			940			-	
		Depth	mm	730			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	805			1556			-	
		Width	mm	1065			1055			-	
		Depth	mm	340			485			-	
Weight		(NET)	kg	25			98			-	
		(GROSS)	kg	30			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				3 (4)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Triple) - Type

1-1-2. PZH3

1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(50) ×3 / U-140PZH3E8

INDOOR		MODEL	S-3650PF3E(50) ×3			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-140PZH3E8			-		
Branch pipe		MODEL	CZ-P3HPC2								
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz					
		V	220V	230V	240V	380V	400V	415V	Min	Max	
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	15.3	
		BTU/h	45700	45700	45700	-	-	-	11300	52200	
	Current	A	-	-	-	6.75	6.45	6.20	-	-	
	Input power	W	-	-	-	-	-	-	-	-	
		TOTAL W	-			4.01k	4.01k	4.01k	840	5.90k	
	Annual consumption	TOTAL kWh *4	-	-	-	-	2005	-	-	-	
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.34	3.34 / A	3.34	3.93	2.59	
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-	
	ErP *6 ηsc	%	-	-	-	-	265.9	-	-	-	
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-	
	ErP *6 Class		-	-	-	-	-	-	-	-	
	Power factor	%	-	-	-	90	90	90	-	-	
	Noise indoor *7	dB-A (H/M/L)	34 / 30 / 25			-			-	-	
		Power Level dB	57 / 53 / 48			-			-	-	
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-	
		Power Level dB	-			71 / -			-	-	
HEATING	Capacity	kW	15.5	15.5	15.5	-	-	-	3.3	17.4	
		BTU/h	52900	52900	52900	-	-	-	11300	59400	
	Current	A	-	-	-	7.70	7.30	7.05	-	-	
	Input power	W	-	-	-	-	-	-	-	-	
		TOTAL W	-			4.55k	4.55k	4.55k	820	5.60k	
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / B	3.41	4.02	3.11	
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-	
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-	
	ErP *6 ηsh	%	-	-	-	-	164.2	-	-	-	
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-	
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-	
	ErP *6 Class		-	-	-	-	-	-	-	-	
	Power factor	%	-	-	-	90	90	90	-	-	
	Noise indoor *7	dB-A (H/M/L)	34 / 30 / 25			-			-	-	
		Power Level dB	57 / 53 / 48			-			-	-	
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-	
		Power Level dB	-			71 / -			-	-	
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-		
Max Current(A) / Max Input power(W)			-	-	-	11.4 / 6.95k	11.4 / 7.30k	11.4 / 7.55k	-		
Starting current(A) (Cooling/Heating)			-	-	-	6.75 / 7.70	6.45 / 7.30	6.20 / 7.05	-		
Comp output(W)			-			3.00k	3.00k	3.00k	-		
Time Delay fuse max size(A)			-			15			-		
Network Impedance(ΩMAX.)			-			-			-		
Fan motor output (Indoor/Outdoor) W			107			90 ×2			-		
Moisture removal volume		L/h	5.7 (1.9 ×3)			-			-		
External static pressure		Pa	30 (MIN10 - MAX150)			-			-		
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 ×3 / 15.0 ×3 / 12.0 ×3			-			-	-	
	Heating	m³/min (H/M/L)	16.0 ×3 / 15.0 ×3 / 12.0 ×3			-			-	-	
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-	
	Heating	m³/min	-			116.0			-	-	
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-		
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-		
Product dimension	Height	mm	250			1416			-		
	Width	mm	800			940			-		
	Depth	mm	730			340			-		
Product dimension (Panel)	H×W×D	mm	-			-			-		
Packing dimension	Height	mm	805			1556			-		
	Width	mm	1065			1055			-		
	Depth	mm	340			485			-		
Weight	(NET)	kg	25			98			-		
	(GROSS)	kg	30			110			-		
	Panel (NET)	kg	-			-			-		
Layers limit (actually)			3 (4)			1 (2)			-		
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-		
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-		
Max Working Pressure HP/LP MPa			4.15 / 2.70						-		
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-		
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-		
	Connecting method		flared type			flared type			-		
	Standard length m		5 m						-		
	Pipe length range m		5 ~ 85 m						-		
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-		
	Add gas amount g/m		45 g/m						-		
	Pipe length for additional gas m		30 m						-		

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Double-twin) - Type

1-1-2. PZH3

1-1-2-2. Middle Static Pressure Duct Type S-3650PF3E(36) ×4 / U-125PZH3E8

INDOOR		MODEL	S-3650PF3E(36) ×4			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1 ×3							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	13.6
		BTU/h	41300	41300	41300	-	-	-	10900	46400
	Current	A	-	-	-	5.85	5.60	5.40	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.48k	3.48k	3.48k	740	4.64k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1740	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / A	3.48	4.32	2.93
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 ηsc	%	-	-	-	-	261.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	90	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 27 / 22			-			-	-
		Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	13.5	13.5	13.5	-	-	-	3.2	15.4
		BTU/h	46100	46100	46100	-	-	-	10900	52500
	Current	A	-	-	-	6.75	6.40	6.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.00k	4.00k	4.00k	720	5.15k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.38	3.38 / C	3.38	4.44	2.99
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.3	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	156.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	90	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	30 / 27 / 22			-			-	-
		Power Level dB	53 / 50 / 45			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.4 / 6.85k	11.4 / 7.15k	11.4 / 7.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.85 / 6.75	5.60 / 6.40	5.40 / 6.20	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			107			90 ×2			-	
Moisture removal volume		L/h	3.6 (0.9 ×4)			-			-	
External static pressure		Pa	30 (MIN10 - MAX150)			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×4 / 13.0 ×4 / 10.0 ×4			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×4 / 13.0 ×4 / 10.0 ×4			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		250			1416			-	
	Width mm		800			940			-	
	Depth mm		730			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		805			1556			-	
	Width mm		1065			1055			-	
	Depth mm		340			485			-	
Weight	(NET) kg		25			98			-	
	(GROSS) kg		30			110			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			3 (4)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of standard installation (Horizontal installation in the ceiling, rear side air intake)
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1) Noise of L is indicated by the values at FAN mode
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(36) / U-36PZH3E5

INDOOR		MODEL	S-3650PK3E(36)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-36PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.2	4.0
		BTU/h	12300	12300	12300	-	-	-	4100	13600
	Current	A	-	-	-	3.60	3.45	3.30	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.730k	0.730k	0.730k	220	0.89k
	Annual consumption	TOTAL kWh *4	-	-	-	-	365	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.93	4.93 / A	4.93	5.45	4.49
	ErP *6 Pdesign	kW	-	-	-	-	3.6	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	8.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	150	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	35/31/27			-			-	-
		Power Level dB	51/47/43			-			-	-
	Noise outdoor	dB-A (H/L)	-			43/-			-	-
		Power Level dB	-			62/-			-	-
HEATING	Capacity	kW	4.0	4.0	4.0	-	-	-	1.2	5.0
		BTU/h	13600	13600	13600	-	-	-	4100	17100
	Current	A	-	-	-	4.05	3.90	3.70	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.830k	0.830k	0.830k	220	1.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.82	4.82 / A	4.82	5.45	4.17
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	3.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.9	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	1029	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	35/31/27			-			-	-
		Power Level dB	51/47/43			-			-	-
	Noise outdoor	dB-A (H/L)	-			44/-			-	-
		Power Level dB	-			64/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.0 / 2.20k	11.0 / 2.30k	11.0 / 2.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.60 / 4.05	3.45 / 3.90	3.30 / 3.70	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			40			-	
Moisture removal volume		L/h	0.9 (0.9 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	13.0 / 11.0 / 9.0			-			-	-
	Heating	m³/min (H/M/L)	13.0 / 11.0 / 9.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			34.1			-	-
	Heating	m³/min	-			36.4			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension		Height mm	302			695			-	
		Width mm	1120			875			-	
		Depth mm	236			320			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	282			761			-	
		Width mm	1190			1049			-	
		Depth mm	378			460			-	
Weight		(NET) kg	13			42			-	
		(GROSS) kg	16			46			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(50) / U-50PZH3E5

INDOOR		MODEL	S-3650PK3E(50)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-50PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.2	5.6
		BTU/h	17100	17100	17100	-	-	-	4100	19100
	Current	A	-	-	-	5.60	5.35	5.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.180k	1.180k	1.180k	220	1.55k
	Annual consumption	TOTAL kWh *4	-	-	-	-	590	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.24	4.24 / A	4.24	5.45	3.61
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	8.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	219	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)	40/36/32			-			-	-
		Power Level dB	56/52/48			-			-	-
	Noise outdoor	dB-A (H/L)	-			46/-			-	-
		Power Level dB	-			64/-			-	-
HEATING	Capacity	kW	5.6	5.6	5.6	-	-	-	1.2	6.5
		BTU/h	19100	19100	19100	-	-	-	4100	22200
	Current	A	-	-	-	6.40	6.10	5.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.350k	1.350k	1.350k	220	1.83k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.45	3.55
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	1341	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)	40/36/32			-			-	-
		Power Level dB	56/52/48			-			-	-
	Noise outdoor	dB-A (H/L)	-			48/-			-	-
		Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.0 / 2.46k	12.0 / 2.57k	12.0 / 2.68k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.60 / 6.40	5.35 / 6.10	5.10 / 5.85	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			40			-	
Moisture removal volume		L/h	1.8 (1.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 / 13.5 / 11.0			-			-	-
	Heating	m³/min (H/M/L)	16.0 / 13.5 / 11.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension	Height	mm	302			695			-	
	Width	mm	1120			875			-	
	Depth	mm	236			320			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			761			-	
	Width	mm	1190			1049			-	
	Depth	mm	378			460			-	
Weight	(NET)	kg	13			42			-	
	(GROSS)	kg	16			46			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(60) / U-60PZH3E5

INDOOR		MODEL	S-6010PK3E(60)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-60PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.1	6.1	6.1	-	-	-	1.2	7.1
		BTU/h	20800	20800	20800	-	-	-	4100	24200
	Current	A	-	-	-	7.40	7.10	6.80	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.580k	1.580k	1.580k	220	2.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	790	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	5.45	3.02
	ErP *6 Pdesign	kW	-	-	-	-	6.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	297	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	47/44/40			-			-	-
		Power Level dB	63/60/56			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	7.0	7.0	7.0	-	-	-	1.2	8.0
		BTU/h	23900	23900	23900	-	-	-	4100	27300
	Current	A	-	-	-	7.75	7.40	7.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.670k	1.670k	1.670k	220	2.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.19	4.19 / A	4.19	5.45	3.40
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.8	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	1342	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	47/44/40			-			-	-
		Power Level dB	63/60/56			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			69/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	16.4 / 3.25k	16.4 / 3.39k	16.4 / 3.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.40 / 7.75	7.10 / 7.40	6.80 / 7.10	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			40			-	
Moisture removal volume		L/h	2.0 (2.0 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
	Heating	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension	Height mm		302			695			-	
	Width mm		1120			875			-	
	Depth mm		236			320			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			761			-	
	Width mm		1190			1049			-	
	Depth mm		378			460			-	
Weight	(NET) kg		14			43			-	
	(GROSS) kg		17			47			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(71) / U-71PZH3E5

INDOOR			MODEL	S-6010PK3E(71)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	7.1	7.1	7.1	-	-	-	2.2	9.0
			BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current		A	-	-	-	10.0	9.60	9.20	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.030k	2.030k	2.030k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1015	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.50	3.50 / A	3.50	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	7.1	-	-	-
		SEER	(W/W)	-	-	-	-	6.8	-	-	-
		Annual consumption	kWh	-	-	-	-	365	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	9.65	9.35	8.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.000k	2.000k	2.000k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.00	4.00 / A	4.00	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.7	-	-	-
		Annual consumption	kWh	-	-	-	-	1549	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	94	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	18.0 / 3.75k	18.0 / 3.90k	18.0 / 4.10k	-	
Starting current(A) (Cooling/Heating)				-	-	-	10.0 / 9.65	9.60 / 9.35	9.20 / 8.95	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90			-	
Moisture removal volume			L/h	3.0 (3.0 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
	Heating		m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension		Height	mm	302			996			-	
		Width	mm	1120			940			-	
		Depth	mm	236			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	282			1136			-	
		Width	mm	1190			1055			-	
		Depth	mm	378			485			-	
Weight		(NET)	kg	14			65			-	
		(GROSS)	kg	17			73			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-3. Wall Mounted Type S-6010PK3E(100) / U-100PZH3E5

INDOOR		MODEL	S-6010PK3E(100)			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-100PZH3E5			-		
Branch pipe		MODEL	-								
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz					
		V	220V	230V	240V	220V	230V	240V		Min	Max
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-		3.1	10.5
		BTU/h	32400	32400	32400	-	-	-		10600	35800
	Current	A	-	-	-	14.4	13.8	13.2		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			2.910k	2.910k	2.910k		580	3.40k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1455	-		-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.26	3.26 / A	3.26		5.34	3.09
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-		-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.4	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	520	-		-	-
	ErP *6 Class		-	-	-	-	A++	-		-	-
	Power factor	%	-	-	-	92	92	92		-	-
	Noise indoor *7	dB-A (H/M/L)	49 / 45 / 41			-				-	-
		Power Level dB	65 / 61 / 57			-				-	-
	Noise outdoor	dB-A (H/L)	-			52 / -				-	-
		Power Level dB	-			69 / -				-	-
HEATING	Capacity	kW	9.5	9.5	9.5	-	-	-		3.1	11.5
		BTU/h	32400	32400	32400	-	-	-		10600	39200
	Current	A	-	-	-	11.7	11.3	10.8		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			2.390k	2.390k	2.390k		560	3.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.97	3.97 / A	3.97		5.54	3.43
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-		-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-		-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.1	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2732	-		-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-		-	-
	ErP *6 Class		-	-	-	-	A+	-		-	-
	Power factor	%	-	-	-	93	92	92		-	-
	Noise indoor *7	dB-A (H/M/L)	49 / 45 / 41			-				-	-
		Power Level dB	65 / 61 / 57			-				-	-
	Noise outdoor	dB-A (H/L)	-			52 / -				-	-
		Power Level dB	-			69 / -				-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
Max Current(A) / Max Input power(W)			-	-	-	25.2 / 5.30k	25.2 / 5.50k	25.1 / 5.75k		-	
Starting current(A) (Cooling/Heating)			-	-	-	14.4 / 11.7	13.8 / 11.3	13.2 / 10.8		-	
Comp output(W)			-			2.50k	2.50k	2.50k		-	
Time Delay fuse max size(A)			-			35				-	
Network Impedance(ΩMAX.)			-			-				-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2				-	
Moisture removal volume		L/h	4.8 (4.8 ×1)			-				-	
External static pressure		Pa	-			-				-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 / 18.5 / 15.0			-				-	-
	Heating	m³/min (H/M/L)	22.0 / 18.5 / 15.0			-				-	-
Outdoor Air flow	Cooling	m³/min	-			118.0				-	-
	Heating	m³/min	-			108.0				-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975		-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03		-	
Product dimension	Height	mm	302			1416				-	
	Width	mm	1120			940				-	
	Depth	mm	236			340				-	
Product dimension (Panel)	H×W×D	mm	-			-				-	
Packing dimension	Height	mm	282			1556				-	
	Width	mm	1190			1055				-	
	Depth	mm	378			485				-	
Weight	(NET)	kg	14			98				-	
	(GROSS)	kg	17			110				-	
	Panel (NET)	kg	-			-				-	
Layers limit (actually)			11 (12)			1 (2)				-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C				-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C				-	
Max Working Pressure HP/LP MPa			4.15 / 2.70							-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-	
	Connecting method		flared type			flared type				-	
	Standard length m		5 m							-	
	Pipe length range m		5 ~ 85 m							-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)							-	
	Add gas amount g/m		45 g/m							-	
	Pipe length for additional gas m		30 m							-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(36) ×2 / U-71PZH3E5

INDOOR			MODEL	S-3650PK3E(36) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	7.1	7.1	7.1	-	-	-	2.2	9.0
			BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current		A	-	-	-	10.1	9.70	9.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.030k	2.030k	2.030k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1015	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.50	3.50 / A	3.50	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	7.1	-	-	-
		SEER	(W/W)	-	-	-	-	6.8	-	-	-
		Annual consumption	kWh	-	-	-	-	365	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	9.80	9.35	8.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.000k	2.000k	2.000k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.00	4.00 / A	4.00	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.7	-	-	-
		Annual consumption	kWh	-	-	-	-	1549	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	18.4 / 3.80k	18.3 / 3.95k	18.3 / 4.15k	-	
Starting current(A) (Cooling/Heating)				-	-	-	10.1 / 9.80	9.70 / 9.35	9.30 / 8.95	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90			-	
Moisture removal volume			L/h	1.8 (0.9 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	13.0 ×2 / 11.0 ×2 / 9.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	13.0 ×2 / 11.0 ×2 / 9.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension			Height mm	302			996			-	
			Width mm	1120			940			-	
			Depth mm	236			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1136			-	
			Width mm	1190			1055			-	
			Depth mm	378			485			-	
Weight			(NET) kg	13			65			-	
			(GROSS) kg	16			73			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(50) ×2 / U-100PZH3E5

INDOOR		MODEL	S-3650PK3E(50) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.1	12.5
		BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current	A	-	-	-	12.5	12.0	11.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.560k	2.560k	2.560k	580	3.70k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1280	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.34	3.38
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	547	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	-	-	-	13.5	12.9	12.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.760k	2.760k	2.760k	560	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.54	3.18
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2730	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	93	93	92	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	24.9 / 5.25k	24.8 / 5.45k	24.8 / 5.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	12.5 / 13.5	12.0 / 12.9	11.5 / 12.5	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			30			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	3.6 (1.8 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	302			1416			-	
	Width	mm	1120			940			-	
	Depth	mm	236			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1556			-	
	Width	mm	1190			1055			-	
	Depth	mm	378			485			-	
Weight	(NET)	kg	13			98			-	
	(GROSS)	kg	16			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(60) ×2 / U-125PZH3E5

INDOOR			MODEL	S-6010PK3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	18.0	17.2	16.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.680k	3.680k	3.680k	600	4.70k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1840	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.33	2.98
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	279.6	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	18.4	17.8	17.0	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.760k	3.760k	3.760k	580	5.10k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.52	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	164.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	28.0 / 5.85k	28.0 / 6.10k	27.9 / 6.40k	-	
Starting current(A) (Cooling/Heating)				-	-	-	18.0 / 18.4	17.2 / 17.8	16.5 / 17.0	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	4.0 (2.0 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	302			1416			-	
		Width	mm	1120			940			-	
		Depth	mm	236			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	282			1556			-	
		Width	mm	1190			1055			-	
		Depth	mm	378			485			-	
Weight		(NET)	kg	14			98			-	
		(GROSS)	kg	17			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(71) ×2 / U-140PZH3E5

INDOOR		MODEL	S-6010PK3E(71) ×2			-			-		
PANEL		MODEL	-			-			-		
OUTDOOR		MODEL	-			U-140PZH3E5			-		
Branch pipe		MODEL	CZ-P155BK1								
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825								
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz					
		V	220V	230V	240V	220V	230V	240V		Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-		3.3	16.0
		BTU/h	47800	47800	47800	-	-	-		11300	54600
	Current	A	-	-	-	22.1	21.1	20.3		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			4.520k	4.520k	4.520k		620	6.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2260	-		-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10		5.32	2.67
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-		-	-
	ErP *6 ηsc	%	-	-	-	-	267.3	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-		-	-
	ErP *6 Class		-	-	-	-	-	-		-	-
	Power factor	%	-	-	-	93	93	93		-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-				-	-
		Power Level dB	63 / 60 / 56			-				-	-
	Noise outdoor	dB-A (H/L)	-			54 / -				-	-
		Power Level dB	-			71 / -				-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-		3.3	18.0
		BTU/h	54600	54600	54600	-	-	-		11300	61400
	Current	A	-	-	-	23.4	22.3	21.4		-	-
	Input power	W	-	-	-	-	-	-		-	-
		TOTAL W	-			4.780k	4.780k	4.780k		600	5.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.35	3.35 / C	3.35		5.50	3.05
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.6	-		-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-		-	-
	ErP *6 ηsh	%	-	-	-	-	160.4	-		-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-		-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-		-	-
	ErP *6 Class		-	-	-	-	-	-		-	-
	Power factor	%	-	-	-	93	93	93		-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-				-	-
		Power Level dB	63 / 60 / 56			-				-	-
	Noise outdoor	dB-A (H/L)	-			54 / -				-	-
		Power Level dB	-			71 / -				-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-		-	
Max Current(A) / Max Input power(W)			-	-	-	29.0 / 6.10k	29.0 / 6.35k	28.9 / 6.60k		-	
Starting current(A) (Cooling/Heating)			-	-	-	22.1 / 23.4	21.1 / 22.3	20.3 / 21.4		-	
Comp output(W)			-			3.00k	3.00k	3.00k		-	
Time Delay fuse max size(A)			-			35				-	
Network Impedance(ΩMAX.)			-			-				-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2				-	
Moisture removal volume		L/h	6.0 (3.0 ×2)			-				-	
External static pressure		Pa	-			-				-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-				-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-				-	-
Outdoor Air flow	Cooling	m³/min	-			129.0				-	-
	Heating	m³/min	-			116.0				-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975		-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03		-	
Product dimension	Height	mm	302			1416				-	
	Width	mm	1120			940				-	
	Depth	mm	236			340				-	
Product dimension (Panel)	H×W×D	mm	-			-				-	
Packing dimension	Height	mm	282			1556				-	
	Width	mm	1190			1055				-	
	Depth	mm	378			485				-	
Weight	(NET)	kg	14			98				-	
	(GROSS)	kg	17			110				-	
	Panel (NET)	kg	-			-				-	
Layers limit (actually)			11 (12)			1 (2)				-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C				-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C				-	
Max Working Pressure HP/LP MPa			4.15 / 2.70							-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-	
	Connecting method		flared type			flared type				-	
	Standard length m		5 m							-	
	Pipe length range m		5 ~ 85 m							-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)							-	
	Add gas amount g/m		45 g/m							-	
	Pipe length for additional gas m		30 m							-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(36) ×3 / U-100PZH3E5

INDOOR			MODEL	S-3650PK3E(36) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	12.6	12.1	11.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.560k	2.560k	2.560k	580	3.70k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1280	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.34	3.38
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.4	-	-	-
		Annual consumption	kWh	-	-	-	-	547	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	13.6	13.0	12.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.760k	2.760k	2.760k	560	4.40k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.54	3.18
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.1	-	-	-
		Annual consumption	kWh	-	-	-	-	2731	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	25.4 / 5.30k	25.3 / 5.50k	25.2 / 5.75k	-	
Starting current(A) (Cooling/Heating)				-	-	-	12.6 / 13.6	12.1 / 13.0	11.6 / 12.5	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	2.7 (0.9 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	13.0 ×3 / 11.0 ×3 / 9.0 ×3			-			-	-
	Heating		m³/min (H/M/L)	13.0 ×3 / 11.0 ×3 / 9.0 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	302			1416			-	
			Width mm	1120			940			-	
			Depth mm	236			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1556			-	
			Width mm	1190			1055			-	
			Depth mm	378			485			-	
Weight			(NET) kg	13			98			-	
			(GROSS) kg	16			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(45) ×3 / U-125PZH3E5

INDOOR			MODEL	S-3650PK3E(45) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	18.0	17.2	16.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.680k	3.680k	3.680k	600	4.70k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1840	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.33	2.98
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	280.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	38 / 34 / 30			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	18.4	17.8	17.0	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.760k	3.760k	3.760k	580	5.10k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.52	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	164.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	38 / 34 / 30			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	28.4 / 5.90k	28.3 / 6.15k	28.2 / 6.45k	-	
Starting current(A) (Cooling/Heating)				-	-	-	18.0 / 18.4	17.2 / 17.8	16.5 / 17.0	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	4.5 (1.5 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.5 ×3 / 12.5 ×3 / 10.3 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.5 ×3 / 12.5 ×3 / 10.3 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	302			1416			-	
			Width mm	1120			940			-	
			Depth mm	236			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1556			-	
			Width mm	1190			1055			-	
			Depth mm	378			485			-	
Weight			(NET) kg	13			98			-	
			(GROSS) kg	16			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(50) ×3 / U-140PZH3E5

INDOOR			MODEL	S-3650PK3E(50) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	-	-	-	22.1	21.1	20.3	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.520k	4.520k	4.520k	620	6.00k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2260	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.32	2.67
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	267.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	40 / 36 / 32			-			-	-
			Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	23.4	22.3	21.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.780k	4.780k	4.780k	600	5.90k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.35	3.35 / C	3.35	5.50	3.05
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	160.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	40 / 36 / 32			-			-	-
			Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	29.4 / 6.15k	29.3 / 6.40k	29.2 / 6.65k	-	
Starting current(A) (Cooling/Heating)				-	-	-	22.1 / 23.4	21.1 / 22.3	20.3 / 21.4	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	5.4 (1.8 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.0 ×3 / 13.5 ×3 / 11.0 ×3			-			-	-
	Heating		m³/min (H/M/L)	16.0 ×3 / 13.5 ×3 / 11.0 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	302			1416			-	
		Width	mm	1120			940			-	
		Depth	mm	236			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	282			1556			-	
		Width	mm	1190			1055			-	
		Depth	mm	378			485			-	
Weight		(NET)	kg	13			98			-	
		(GROSS)	kg	16			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Double-twin) - Type

1-1-2. PZH3

1-1-2-3. Wall Mounted Type S-3650PK3E(36) ×4 / U-125PZH3E5

INDOOR			MODEL	S-3650PK3E(36) ×4			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1 ×3							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	18.2	17.4	16.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.680k	3.680k	3.680k	600	4.70k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1840	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.33	2.98
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		ηsc	%	-	-	-	-	280.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	18.6	17.8	17.0	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.760k	3.760k	3.760k	580	5.10k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.52	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		ηsh	%	-	-	-	-	164.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	35 / 31 / 27			-			-	-
			Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	28.8 / 5.95k	28.7 / 6.20k	28.6 / 6.50k	-	
Starting current(A) (Cooling/Heating)				-	-	-	18.2 / 18.6	17.4 / 17.8	16.7 / 17.0	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	3.6 (0.9 ×4)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	13.0 ×4 / 11.0 ×4 / 9.0 ×4			-			-	-
	Heating		m³/min (H/M/L)	13.0 ×4 / 11.0 ×4 / 9.0 ×4			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	302			1416			-	
			Width mm	1120			940			-	
			Depth mm	236			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1556			-	
			Width mm	1190			1055			-	
			Depth mm	378			485			-	
Weight			(NET) kg	13			98			-	
			(GROSS) kg	16			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(71) / U-71PZH3E8

INDOOR		MODEL	S-6010PK3E(71)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.2	9.0
		BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current	A	-	-	-	3.40	3.25	3.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.030k	2.030k	2.030k	380	3.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1015	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.50	3.50 / A	3.50	5.79	2.69
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	370	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	8.0	8.0	8.0	-	-	-	2.0	9.0
		BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current	A	-	-	-	3.30	3.15	3.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.000k	2.000k	2.000k	360	2.85k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.00	4.00 / A	4.00	5.56	3.16
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1549	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	6.15 / 3.85k	6.15 / 4.00k	6.15 / 4.15k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.40 / 3.30	3.25 / 3.15	3.15 / 3.05	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90			-	
Moisture removal volume		L/h	3.0 (3.0 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
	Heating	m³/min (H/M/L)	20.0 / 17.5 / 14.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height	mm	302			996			-	
	Width	mm	1120			940			-	
	Depth	mm	236			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1136			-	
	Width	mm	1190			1055			-	
	Depth	mm	378			485			-	
Weight	(NET)	kg	14			65			-	
	(GROSS)	kg	17			73			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(100) / U-100PZH3E8

INDOOR		MODEL	S-6010PK3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.1	10.5
		BTU/h	32400	32400	32400	-	-	-	10600	35800
	Current	A	-	-	-	4.85	4.60	4.40	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.910k	2.910k	2.910k	580	3.40k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1455	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.26	3.26 / A	3.26	5.34	3.09
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	526	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	49 / 45 / 41			-			-	-
		Power Level dB	65 / 61 / 57			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
HEATING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.1	11.5
		BTU/h	32400	32400	32400	-	-	-	10600	39200
	Current	A	-	-	-	4.00	3.80	3.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.390k	2.390k	2.390k	560	3.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.97	3.97 / A	3.97	5.54	3.43
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2732	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	49 / 45 / 41			-			-	-
		Power Level dB	65 / 61 / 57			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	8.90 / 5.55k	8.85 / 5.80k	8.85 / 6.00k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.85 / 4.00	4.60 / 3.80	4.40 / 3.60	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	4.8 (4.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	22.0 / 18.5 / 15.0			-			-	-
	Heating	m³/min (H/M/L)	22.0 / 18.5 / 15.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	302			1416			-	
	Width	mm	1120			940			-	
	Depth	mm	236			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1556			-	
	Width	mm	1190			1055			-	
	Depth	mm	378			485			-	
Weight	(NET)	kg	14			98			-	
	(GROSS)	kg	17			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(36) ×2 / U-71PZH3E8

INDOOR		MODEL	S-3650PK3E(36) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.2	9.0
		BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current	A	-	-	-	3.40	3.25	3.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.030k	2.030k	2.030k	380	3.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1015	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.50	3.50 / A	3.50	5.79	2.69
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	370	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	8.0	8.0	8.0	-	-	-	2.0	9.0
		BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current	A	-	-	-	3.30	3.15	3.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.000k	2.000k	2.000k	360	2.85k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.00	4.00 / A	4.00	5.56	3.16
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1549	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	6.30 / 3.90k	6.30 / 4.05k	6.30 / 4.20k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.40 / 3.30	3.25 / 3.15	3.15 / 3.05	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90			-	
Moisture removal volume		L/h	1.8 (0.9 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	13.0 ×2 / 11.0 ×2 / 9.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	13.0 ×2 / 11.0 ×2 / 9.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height mm		302			996			-	
	Width mm		1120			940			-	
	Depth mm		236			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			1136			-	
	Width mm		1190			1055			-	
	Depth mm		378			485			-	
Weight	(NET) kg		13			65			-	
	(GROSS) kg		16			73			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11 (12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(50) ×2 / U-100PZH3E8

INDOOR			MODEL	S-3650PK3E(50) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	10.0	10.0	10.0	-	-	-	3.1	12.5
			BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current		A	-	-	-	4.25	4.05	3.85	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.560k	2.560k	2.560k	580	3.70k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1280	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.34	3.38
	ErP *6	Pdesign	kW	-	-	-	-	10.0	-	-	-
		SEER	(W/W)	-	-	-	-	6.3	-	-	-
		Annual consumption	kWh	-	-	-	-	554	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	40 / 36 / 32			-			-	-
			Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	4.60	4.40	4.15	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.760k	2.760k	2.760k	560	4.40k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.54	3.18
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.1	-	-	-
		Annual consumption	kWh	-	-	-	-	2730	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	40 / 36 / 32			-			-	-
			Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	8.80 / 5.50k	8.80 / 5.75k	8.80 / 5.95k	-	
Starting current(A) (Cooling/Heating)				-	-	-	4.25 / 4.60	4.05 / 4.40	3.85 / 4.15	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	3.6 (1.8 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
	Heating		m³/min (H/M/L)	16.0 ×2 / 13.5 ×2 / 11.0 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	2.06	4.03	-	
Product dimension			Height mm	302			1416			-	
			Width mm	1120			940			-	
			Depth mm	236			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1556			-	
			Width mm	1190			1055			-	
			Depth mm	378			485			-	
Weight			(NET) kg	13			98			-	
			(GROSS) kg	16			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(60) ×2 / U-125PZH3E8

INDOOR			MODEL	S-6010PK3E(60) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.5	12.5	12.5	-	-	-	3.2	14.0
			BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current		A	-	-	-	6.10	5.75	5.55	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.680k	3.680k	3.680k	600	4.70k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1840	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.33	2.98
	ErP *6	Pdesign	kW	-	-	-	-	12.5	-	-	-
		η_{sc}	%	-	-	-	-	278.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	6.30	5.95	5.75	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.760k	3.760k	3.760k	580	5.10k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.52	3.14
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	164.3	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	47 / 44 / 40			-			-	-
			Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	9.85 / 6.10k	9.85 / 6.40k	9.80 / 6.65k	-	
Starting current(A) (Cooling/Heating)				-	-	-	6.10 / 6.30	5.75 / 5.95	5.55 / 5.75	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				54			90 ×2			-	
Moisture removal volume			L/h	4.0 (2.0 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	302			1416			-	
			Width mm	1120			940			-	
			Depth mm	236			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	282			1556			-	
			Width mm	1190			1055			-	
			Depth mm	378			485			-	
Weight			(NET) kg	14			98			-	
			(GROSS) kg	17			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				11 (12)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-6010PK3E(71) ×2 / U-140PZH3E8

INDOOR		MODEL	S-6010PK3E(71) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	16.0
		BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current	A	-	-	-	7.45	7.10	6.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.520k	4.520k	4.520k	620	6.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2260	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.32	2.67
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 ηsc	%	-	-	-	-	266.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	7.90	7.50	7.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.780k	4.780k	4.780k	600	5.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.35	3.35 / C	3.35	5.50	3.05
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	160.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 44 / 40			-			-	-
		Power Level dB	63 / 60 / 56			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.3 / 6.40k	10.3 / 6.75k	10.3 / 7.00k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.45 / 7.90	7.10 / 7.50	6.85 / 7.25	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	6.0 (3.0 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.5 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension		Height mm	302			1416			-	
		Width mm	1120			940			-	
		Depth mm	236			340			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	282			1556			-	
		Width mm	1190			1055			-	
		Depth mm	378			485			-	
Weight		(NET) kg	14			98			-	
		(GROSS) kg	17			110			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(36) ×3 / U-100PZH3E8

INDOOR		MODEL	S-3650PK3E(36) ×3			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZH3E8			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.1	12.5
		BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current	A	-	-	-	4.25	4.10	3.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.560k	2.560k	2.560k	580	3.70k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1280	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.34	3.38
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	554	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	-	-	-	4.60	4.40	4.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.760k	2.760k	2.760k	560	4.40k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.06	4.06 / A	4.06	5.54	3.18
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2731	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	8.95 / 5.55k	8.95 / 5.80k	8.90 / 6.00k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.25 /4.60	4.10 /4.40	3.95 / 4.15	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	2.7 (0.9 ×3)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	13.0 ×3 / 11.0 ×3 / 9.0 ×3			-			-	-
	Heating	m³/min (H/M/L)	13.0 ×3 / 11.0 ×3 / 9.0 ×3			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	302			1416			-	
	Width	mm	1120			940			-	
	Depth	mm	236			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1556			-	
	Width	mm	1190			1055			-	
	Depth	mm	378			485			-	
Weight	(NET)	kg	13			98			-	
	(GROSS)	kg	16			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(45) ×3 / U-125PZH3E8

INDOOR		MODEL	S-3650PK3E(45) ×3			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	-	-	-	6.10	5.75	5.55	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.680k	3.680k	3.680k	600	4.70k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1840	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.33	2.98
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 ηsc	%	-	-	-	-	278.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 30			-			-	-
		Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	6.30	5.95	5.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.760k	3.760k	3.760k	580	5.10k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.52	3.14
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	164.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 30			-			-	-
		Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.0 / 6.15k	9.95 / 6.45k	9.90 / 6.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.10 / 6.30	5.75 / 5.95	5.55 / 5.75	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	4.5 (1.5 ×3)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.5 3 / 12.5 ×3 / 10.3 ×3			-			-	-
	Heating	m³/min (H/M/L)	14.5 3 / 12.5 ×3 / 10.3 ×3			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		302			1416			-	
	Width mm		1120			940			-	
	Depth mm		236			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		282			1556			-	
	Width mm		1190			1055			-	
	Depth mm		378			485			-	
Weight	(NET) kg		13			98			-	
	(GROSS) kg		16			110			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-3. Wall Mounted Type S-3650PK3E(50) ×3 / U-140PZH3E8

INDOOR		MODEL	S-3650PK3E(50) ×3			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH3E8			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.3	16.0
		BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current	A	-	-	-	7.45	7.10	6.85	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.520k	4.520k	4.520k	620	6.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2260	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.32	2.67
	ErP *6 Pdesign	kW	-	-	-	-	14.0	-	-	-
	ErP *6 ηsc	%	-	-	-	-	266.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	7.90	7.50	7.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.780k	4.780k	4.780k	600	5.90k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.35	3.35 / C	3.35	5.50	3.05
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	160.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	40 / 36 / 32			-			-	-
		Power Level dB	56 / 52 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.5 / 6.45k	10.4 / 6.80k	10.4 / 7.05k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.45 / 7.90	7.10 / 7.50	6.85 / 7.25	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	5.4 (1.8 ×3)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	16.0 ×3 / 13.5 ×3 / 11.0 ×3			-			-	-
	Heating	m³/min (H/M/L)	16.0 ×3 / 13.5 ×3 / 11.0 ×3			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	302			1416			-	
	Width	mm	1120			940			-	
	Depth	mm	236			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1556			-	
	Width	mm	1190			1055			-	
	Depth	mm	378			485			-	
Weight	(NET)	kg	13			98			-	
	(GROSS)	kg	16			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications — Simultaneous (Double-twin) - Type

1-1-2. PZH3

1-1-2-3. Wall Mounted Type S-3650PK3E(36) ×4 / U-125PZH3E8

INDOOR		MODEL	S-3650PK3E(36) ×4			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1 ×3							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	-	-	-	6.10	5.85	5.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.680k	3.680k	3.680k	600	4.70k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1840	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / A	3.40	5.33	2.98
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 ηsc	%	-	-	-	-	279.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	6.30	5.95	5.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.760k	3.760k	3.760k	580	5.10k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.72	3.72 / A	3.72	5.52	3.14
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	164.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	35 / 31 / 27			-			-	-
		Power Level dB	51 / 47 / 43			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.1 / 6.20k	10.1 / 6.50k	10.1 / 6.75k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.10 / 6.30	5.85 / 5.95	5.65 / 5.75	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			54			90 ×2			-	
Moisture removal volume		L/h	3.6 (0.9 ×4)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	13.0 ×4 / 11.0 ×4 / 9.0 ×4			-			-	-
	Heating	m³/min (H/M/L)	13.0 ×4 / 11.0 ×4 / 9.0 ×4			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	302			1416			-	
	Width	mm	1120			940			-	
	Depth	mm	236			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	282			1556			-	
	Width	mm	1190			1055			-	
	Depth	mm	378			485			-	
Weight	(NET)	kg	13			98			-	
	(GROSS)	kg	16			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			11 (12)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) / U-36PZH3E5

INDOOR		MODEL	S-3650PT3E(36)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-36PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.5	3.5	3.5	-	-	-	1.2	4.0
		BTU/h	11900	11900	11900	-	-	-	4100	13600
	Current	A	-	-	-	3.55	3.40	3.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.720k	0.720k	0.720k	220	0.880k
	Annual consumption	TOTAL kWh *4	-	-	-	-	360	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.86	4.86 / A	4.86	5.45	4.55
	ErP *6 Pdesign	kW	-	-	-	-	3.5	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	160	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	36/32/28			-			-	-
		Power Level dB	54/50/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			43/-			-	-
		Power Level dB	-			62/-			-	-
HEATING	Capacity	kW	4.0	4.0	4.0	-	-	-	1.2	5.0
		BTU/h	13600	13600	13600	-	-	-	4100	17100
	Current	A	-	-	-	3.90	3.75	3.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.800k	0.800k	0.800k	220	1.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	5.00	5.00 / A	5.00	5.45	4.17
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	3.1	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.9	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	886	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	36/32/28			-			-	-
		Power Level dB	54/50/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			44/-			-	-
		Power Level dB	-			64/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.0 / 2.20k	11.0 / 2.30k	11.0 / 2.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.55 / 3.90	3.40 / 3.75	3.25 / 3.60	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			40			-	
Moisture removal volume		L/h	0.8 (0.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 / 12.0 / 10.5			-			-	-
	Heating	m³/min (H/M/L)	14.0 / 12.0 / 10.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			34.1			-	-
	Heating	m³/min	-			36.4			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension		Height mm	235			695			-	
		Width mm	960			875			-	
		Depth mm	690			320			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	360			761			-	
		Width mm	1025			1049			-	
		Depth mm	820			460			-	
Weight		(NET) kg	26			42			-	
		(GROSS) kg	34			46			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			9(10)			3(4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(50) / U-50PZH3E5

INDOOR		MODEL	S-3650PT3E(50)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-50PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.2	5.6
		BTU/h	17100	17100	17100	-	-	-	4100	19100
	Current	A	-	-	-	5.85	5.60	5.40	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.240k	1.240k	1.240k	220	1.57k
	Annual consumption	TOTAL kWh *4	-	-	-	-	620	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.03	4.03 / A	4.03	5.45	3.57
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	237	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)	37/33/28			-			-	-
		Power Level dB	55/51/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			46/-			-	-
		Power Level dB	-			64/-			-	-
HEATING	Capacity	kW	5.6	5.6	5.6	-	-	-	1.2	6.5
		BTU/h	19100	19100	19100	-	-	-	4100	22200
	Current	A	-	-	-	6.60	6.30	6.05	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.390k	1.390k	1.390k	220	1.65k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.03	4.03 / A	4.03	5.45	3.94
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.8	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	1167	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)	37/33/28			-			-	-
		Power Level dB	55/51/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			48/-			-	-
		Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.0 / 2.46k	12.0 / 2.57k	12.0 / 2.68k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.85 / 6.60	5.60 / 6.30	5.40 / 6.05	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			40			-	
Moisture removal volume		L/h	2.0 (2.0 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	15.0 / 12.5 / 10.5			-			-	-
	Heating	m³/min (H/M/L)	15.0 / 12.5 / 10.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension	Height	mm	235			695			-	
	Width	mm	960			875			-	
	Depth	mm	690			320			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			761			-	
	Width	mm	1025			1049			-	
	Depth	mm	820			460			-	
Weight	(NET)	kg	26			42			-	
	(GROSS)	kg	34			46			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9(10)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(60) / U-60PZH3E5

INDOOR		MODEL	S-6071PT3E(60)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-60PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.0	6.0	6.0	-	-	-	1.2	7.1
		BTU/h	20500	20500	20500	-	-	-	4100	24200
	Current	A	-	-	-	7.35	7.05	6.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.570k	1.570k	1.570k	220	2.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	785	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.82	3.82 / A	3.82	5.45	3.02
	ErP *6 Pdesign	kW	-	-	-	-	6.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	280	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	38/34/29			-			-	-
		Power Level dB	56/52/47			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	7.0	7.0	7.0	-	-	-	1.2	8.0
		BTU/h	23900	23900	23900	-	-	-	4100	27300
	Current	A	-	-	-	7.85	7.50	7.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.690k	1.690k	1.690k	220	2.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.14	4.14 / A	4.14	5.45	3.40
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.8	-		
	ErP *6 Annual consumption	kWh	-	-	-	-	1342	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	38/34/29			-			-	-
		Power Level dB	56/52/47			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			69/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	16.4 / 3.25k	16.4 / 3.39k	16.4 / 3.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	7.35 / 7.85	7.05 / 7.50	6.75 / 7.20	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			40			-	
Moisture removal volume		L/h	2.1 (2.1 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 / 17.0 / 14.5			-			-	-
	Heating	m³/min (H/M/L)	20.0 / 17.0 / 14.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension	Height	mm	235			695			-	
	Width	mm	1275			875			-	
	Depth	mm	690			320			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			761			-	
	Width	mm	1340			1049			-	
	Depth	mm	820			460			-	
Weight	(NET)	kg	34			43			-	
	(GROSS)	kg	42			47			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9(10)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(71) / U-71PZH3E5

INDOOR			MODEL	S-6071PT3E(71)			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	-							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	6.8	6.8	6.8	-	-	-	2.2	9.0
			BTU/h	23200	23200	23200	-	-	-	7500	30700
	Current		A	-	-	-	8.60	8.20	7.90	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.740k	1.740k	1.740k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	870	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	6.8	-	-	-
		SEER	(W/W)	-	-	-	-	7.3	-	-	-
		Annual consumption	kWh	-	-	-	-	326	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 30			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	9.75	9.45	9.05	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.020k	2.020k	2.020k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.7	-	-	-
		Annual consumption	kWh	-	-	-	-	1400	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	94	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 30			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	19.6 / 4.05k	19.6 / 4.20k	19.6 / 4.40k	-	
Starting current(A) (Cooling/Heating)				-	-	-	8.60 / 9.75	8.20 / 9.45	7.90 / 9.05	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				74			90			-	
Moisture removal volume			L/h	2.7 (2.7 ×1)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 / 18.0 / 15.5			-			-	-
	Heating		m³/min (H/M/L)	21.0 / 18.0 / 15.5			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension		Height	mm	235			996			-	
		Width	mm	1275			940			-	
		Depth	mm	690			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	360			1136			-	
		Width	mm	1340			1055			-	
		Depth	mm	820			485			-	
Weight		(NET)	kg	34			65			-	
		(GROSS)	kg	42			73			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				9 (10)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-1014PT3E(100) / U-100PZH3E5

INDOOR		MODEL	S-1014PT3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.1	12.5
		BTU/h	32400	32400	32400	-	-	-	10600	42700
	Current	A	-	-	-	11.3	10.8	10.4	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.290k	2.290k	2.290k	580	3.80k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1145	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.34	3.29
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	456	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	-	-	-	13.4	12.9	12.4	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.740k	2.740k	2.740k	560	3.95k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.54	3.54
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2323	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	93	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	26.8 / 5.55k	26.8 / 5.75k	26.8 / 6.00k	-	
Starting current(A) (Cooling/Heating)			-	-	-	11.3 / 13.4	10.8 / 12.9	10.4 / 12.4	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			90 ×2			-	
Moisture removal volume		L/h	3.6 (3.6 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	235			1416			-	
	Width	mm	1590			940			-	
	Depth	mm	690			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1556			-	
	Width	mm	1655			1055			-	
	Depth	mm	820			485			-	
Weight	(NET)	kg	40			98			-	
	(GROSS)	kg	49			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-1014PT3E(125) / U-125PZH3E5

INDOOR		MODEL	S-1014PT3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	14.0
		BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current	A	-	-	-	16.9	16.1	15.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	278.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	18.1	17.3	16.6	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	181.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	29.8 / 6.15k	29.8 / 6.40k	29.8 / 6.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	16.9 / 18.1	16.1 / 17.3	15.5 / 16.6	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			90 ×2			-	
Moisture removal volume		L/h	5.4 (5.4 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		235			1416			-	
	Width mm		1590			940			-	
	Depth mm		690			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			1556			-	
	Width mm		1655			1055			-	
	Depth mm		820			485			-	
Weight	(NET) kg		40			98			-	
	(GROSS) kg		49			110			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-1014PT3E(140) / U-140PZH3E5

INDOOR		MODEL	S-1014PT3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	16.0
		BTU/h	45700	45700	45700	-	-	-	11300	54600
	Current	A	-	-	-	20.4	19.5	18.7	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.170k	4.170k	4.170k	620	6.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2085	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.32	2.67
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	263.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	22.5	21.5	20.6	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.600k	4.600k	4.600k	600	5.80k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / B	3.48	5.50	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	178.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	30.8 / 6.40k	30.8 / 6.65k	30.8 / 6.90k	-	
Starting current(A) (Cooling/Heating)			-	-	-	20.4 / 22.5	19.5 / 21.5	18.7 / 20.6	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			90 ×2			-	
Moisture removal volume		L/h	6.4 (6.4 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
	Heating	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	235			1416			-	
	Width	mm	1590			940			-	
	Depth	mm	690			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1556			-	
	Width	mm	1655			1055			-	
	Depth	mm	820			485			-	
Weight	(NET)	kg	40			98			-	
	(GROSS)	kg	49			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) ×2 / U-71PZH3E5

INDOOR			MODEL	S-3650PT3E(36) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-71PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	6.8	6.8	6.8	-	-	-	2.2	9.0
			BTU/h	23200	23200	23200	-	-	-	7500	30700
	Current		A	-	-	-	8.70	8.30	7.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.740k	1.740k	1.740k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	870	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	6.8	-	-	-
		SEER	(W/W)	-	-	-	-	6.8	-	-	-
		Annual consumption	kWh	-	-	-	-	350	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	9.85	9.45	9.05	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.020k	2.020k	2.020k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.5	-	-	-
		Annual consumption	kWh	-	-	-	-	1446	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	20.4 / 4.07k	20.4 / 4.22k	20.4 / 4.42k	-	
Starting current(A) (Cooling/Heating)				-	-	-	8.70 / 9.85	8.30 / 9.45	7.95 / 9.05	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			25			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90			-	
Moisture removal volume			L/h	1.6 (0.8 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×2 / 12.0 ×2 / 10.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×2 / 12.0 ×2 / 10.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension			Height mm	235			996			-	
			Width mm	960			940			-	
			Depth mm	690			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1136			-	
			Width mm	1025			1055			-	
			Depth mm	820			485			-	
Weight			(NET) kg	26			65			-	
			(GROSS) kg	34			73			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			2 (3)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(50) ×2 / U-100PZH3E5

INDOOR			MODEL	S-3650PT3E(50) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	12.5
			BTU/h	32400	32400	32400	-	-	-	10600	42700
	Current		A	-	-	-	11.2	10.7	10.3	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.290k	2.290k	2.290k	580	3.80k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1145	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.34	3.29
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	7.1	-	-	-
		Annual consumption	kWh	-	-	-	-	468	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	13.4	12.8	12.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.740k	2.740k	2.740k	560	3.95k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.54	3.54
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.7	-	-	-
		Annual consumption	kWh	-	-	-	-	2324	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	93	93	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	26.9 / 5.55k	26.9 / 5.75k	26.9 / 6.00k	-	
Starting current(A) (Cooling/Heating)				-	-	-	11.2 / 13.4	10.7 / 12.8	10.3 / 12.4	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	4.0 (2.0 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	235			1416			-	
		Width	mm	960			940			-	
		Depth	mm	690			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	360			1556			-	
		Width	mm	1025			1055			-	
		Depth	mm	820			485			-	
Weight		(NET)	kg	26			98			-	
		(GROSS)	kg	34			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(60) ×2 / U-125PZH3E5

INDOOR		MODEL	S-6071PT3E(60) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	14.0
		BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current	A	-	-	-	16.9	16.1	15.5	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	284.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 29			-			-	-
		Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	18.1	17.5	16.8	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	182.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 29			-			-	-
		Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	31.3 / 6.45k	31.3 / 6.70k	31.3 / 7.00k	-	
Starting current(A) (Cooling/Heating)			-	-	-	16.9 / 18.1	16.1 / 17.5	15.5 / 16.8	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			40			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			90 ×2			-	
Moisture removal volume		L/h	4.2 (2.1 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		235			1416			-	
	Width mm		1275			940			-	
	Depth mm		690			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			1556			-	
	Width mm		1340			1055			-	
	Depth mm		820			485			-	
Weight	(NET) kg		34			98			-	
	(GROSS) kg		42			110			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(71) ×2 / U-140PZH3E5

INDOOR			MODEL	S-6071PT3E(71) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	16.0
			BTU/h	45700	45700	45700	-	-	-	11300	54600
	Current		A	-	-	-	20.4	19.5	18.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.170k	4.170k	4.170k	620	6.00k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2085	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.32	2.67
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		ηsc	%	-	-	-	-	266.7	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 30			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	22.5	21.5	20.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.600k	4.600k	4.600k	600	5.80k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / B	3.48	5.50	3.10
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		ηsh	%	-	-	-	-	179.1	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	39 / 35 / 30			-			-	-
			Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	32.3 / 6.70k	32.3 / 6.95k	32.3 / 7.20k	-	
Starting current(A) (Cooling/Heating)				-	-	-	20.4 / 22.5	19.5 / 21.5	18.7 / 20.6	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				74			90 ×2			-	
Moisture removal volume			L/h	5.4 (2.7 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	21.0 ×2 / 18.0 ×2 / 15.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	21.0 ×2 / 18.0 ×2 / 15.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	2.06	4.03	-	
Product dimension			Height mm	235			1416			-	
			Width mm	1275			940			-	
			Depth mm	690			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1556			-	
			Width mm	1340			1055			-	
			Depth mm	820			485			-	
Weight			(NET) kg	34			98			-	
			(GROSS) kg	42			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) ×3 / U-100PZH3E5

INDOOR			MODEL	S-3650PT3E(36) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	12.5
			BTU/h	32400	32400	32400	-	-	-	10600	42700
	Current		A	-	-	-	11.3	10.8	10.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.290k	2.290k	2.290k	580	3.80k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1145	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.34	3.29
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.6	-	-	-
		Annual consumption	kWh	-	-	-	-	499	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	13.5	12.9	12.4	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.740k	2.740k	2.740k	560	3.95k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.54	3.54
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.5	-	-	-
		Annual consumption	kWh	-	-	-	-	2400	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	28.3 / 5.80k	28.3 / 6.00k	28.3 / 6.25k	-	
Starting current(A) (Cooling/Heating)				-	-	-	11.3 / 13.5	10.8 / 12.9	10.4 / 12.4	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			35			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	2.4 (0.8 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×3 / 12.0 ×3 / 10.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×3 / 12.0 ×3 / 10.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	2.06	4.03	-	
Product dimension			Height mm	235			1416			-	
			Width mm	950			940			-	
			Depth mm	690			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1556			-	
			Width mm	1025			1055			-	
			Depth mm	820			485			-	
Weight			(NET) kg	26			98			-	
			(GROSS) kg	34			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(45) ×3 / U-125PZH3E5

INDOOR			MODEL	S-3650PT3E(45) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	14.0
			BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current		A	-	-	-	16.9	16.1	15.5	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	275.1	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	18.1	17.5	16.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	176.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	31.3 / 6.40k	31.3 / 6.65k	31.3 / 6.95k	-	
Starting current(A) (Cooling/Heating)				-	-	-	16.9 / 18.1	16.1 / 17.5	15.5 / 16.8	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	3.3 (1.1 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	235			1416			-	
		Width	mm	960			940			-	
		Depth	mm	690			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	360			1556			-	
		Width	mm	1025			1055			-	
		Depth	mm	820			485			-	
Weight		(NET)	kg	26			98			-	
		(GROSS)	kg	34			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(50) ×3 / U-140PZH3E5

INDOOR			MODEL	S-3650PT3E(50) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-140PZH3E5			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	16.0
			BTU/h	45700	45700	45700	-	-	-	11300	54600
	Current		A	-	-	-	20.4	19.5	18.7	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.170k	4.170k	4.170k	620	6.00k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2085	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.32	2.67
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	265.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	22.5	21.5	20.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			4.600k	4.600k	4.600k	600	5.80k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / B	3.48	5.50	3.10
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	178.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			54 / -			-	-
			Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	32.3 / 6.65k	32.3 / 6.90k	32.3 / 7.15k	-	
Starting current(A) (Cooling/Heating)				-	-	-	20.4 / 22.5	19.5 / 21.5	18.7 / 20.6	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	6.0 (2.0 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	235			1416			-	
		Width	mm	960			940			-	
		Depth	mm	690			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	360			1556			-	
		Width	mm	1025			1055			-	
		Depth	mm	820			485			-	
Weight		(NET)	kg	26			98			-	
		(GROSS)	kg	34			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Double-twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) ×4 / U-125PZH3E5

INDOOR			MODEL	S-3650PT3E(36) ×4			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E5			-	
Branch pipe			MODEL	CZ-P155BK1 ×3							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz				
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	14.0
			BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current		A	-	-	-	17.0	16.3	15.6	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	268.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	18.3	17.5	16.8	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	173.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	32.7 / 6.60k	32.7 / 6.85k	32.7 / 7.15k	-	
Starting current(A) (Cooling/Heating)				-	-	-	17.0 / 18.3	16.3 / 17.5	15.6 / 16.8	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	3.2 (0.8 ×4)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×4 / 12.0 ×4 / 10.5 ×4			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×4 / 12.0 ×4 / 10.5 ×4			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	235			1416			-	
			Width mm	960			940			-	
			Depth mm	690			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1556			-	
			Width mm	1025			1055			-	
			Depth mm	820			485			-	
Weight			(NET) kg	26			98			-	
			(GROSS) kg	34			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(71) / U-71PZH3E8

INDOOR		MODEL	S-6071PT3E(71)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	6.8	6.8	6.8	-	-	-	2.2	9.0
		BTU/h	23200	23200	23200	-	-	-	7500	30700
	Current	A	-	-	-	2.90	2.80	2.70	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.740k	1.740k	1.740k	380	3.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	870	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.79	2.69
	ErP *6 Pdesign	kW	-	-	-	-	6.8	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	331	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			48 / -			-	-
		Power Level dB	-			65 / -			-	-
HEATING	Capacity	kW	8.0	8.0	8.0	-	-	-	2.0	9.0
		BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current	A	-	-	-	3.35	3.20	3.10	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.020k	2.020k	2.020k	360	2.85k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.56	3.16
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1400	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	39 / 35 / 30			-			-	-
		Power Level dB	57 / 53 / 48			-			-	-
	Noise outdoor	dB-A (H/L)	-			50 / -			-	-
		Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	6.70 / 4.15k	6.70 / 4.30k	6.70 / 4.45k	-	
Starting current(A) (Cooling/Heating)			-	-	-	2.90 / 3.35	2.80 / 3.20	2.70 / 3.10	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			90			-	
Moisture removal volume		L/h	2.7 (2.7 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	21.0 / 18.0 / 15.5			-			-	-
	Heating	m³/min (H/M/L)	21.0 / 18.0 / 15.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height	mm	235			996			-	
	Width	mm	1275			940			-	
	Depth	mm	690			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1136			-	
	Width	mm	1340			1055			-	
	Depth	mm	820			485			-	
Weight	(NET)	kg	34			65			-	
	(GROSS)	kg	42			73			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-1014PT3E(100) / U-100PZH3E8

INDOOR		MODEL	S-1014PT3E(100)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-100PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	9.5	9.5	9.5	-	-	-	3.1	12.5
		BTU/h	32400	32400	32400	-	-	-	10600	42700
	Current	A	-	-	-	3.80	3.65	3.45	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.290k	2.290k	2.290k	580	3.80k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1145	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.34	3.29
	ErP *6 Pdesign	kW	-	-	-	-	9.5	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	462	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	-	-	-	4.55	4.35	4.15	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.740k	2.740k	2.740k	560	3.95k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.54	3.54
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2324	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	42 / 37 / 34			-			-	-
		Power Level dB	60 / 55 / 52			-			-	-
	Noise outdoor	dB-A (H/L)	-			52 / -			-	-
		Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	9.35 / 5.80k	9.35 / 6.05k	9.35 / 6.25k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.80 / 4.55	3.65 / 4.35	3.45 / 4.15	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			90 ×2			-	
Moisture removal volume		L/h	3.6 (3.6 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
	Heating	m³/min (H/M/L)	30.0 / 25.0 / 23.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	235			1416			-	
	Width	mm	1590			940			-	
	Depth	mm	690			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1556			-	
	Width	mm	1655			1055			-	
	Depth	mm	820			485			-	
Weight	(NET)	kg	40			98			-	
	(GROSS)	kg	49			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-1014PT3E(125) / U-125PZH3E8

INDOOR		MODEL	S-1014PT3E(125)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	14.0
		BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current	A	-	-	-	5.70	5.40	5.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	277.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	6.20	5.85	5.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	180.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	46 / 40 / 35			-			-	-
		Power Level dB	64 / 58 / 53			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.4 / 6.40k	10.4 / 6.70k	10.4 / 6.95k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.70 / 6.20	5.40 / 5.85	5.20 / 5.65	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			90 ×2			-	
Moisture removal volume		L/h	5.4 (5.4 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
	Heating	m³/min (H/M/L)	34.0 / 28.0 / 24.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension		Height mm	235			1416			-	
		Width mm	1590			940			-	
		Depth mm	690			340			-	
Product dimension (Panel)		H×W×D mm	-			-			-	
Packing dimension		Height mm	360			1556			-	
		Width mm	1655			1055			-	
		Depth mm	820			485			-	
Weight		(NET) kg	40			98			-	
		(GROSS) kg	49			110			-	
		Panel (NET) kg	-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-1014PT3E(140) / U-140PZH3E8

INDOOR		MODEL	S-1014PT3E(140)			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH3E8			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	16.0
		BTU/h	45700	45700	45700	-	-	-	11300	54600
	Current	A	-	-	-	6.90	6.55	6.30	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.170k	4.170k	4.170k	620	6.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2085	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.32	2.67
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	262.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	7.70	7.30	6.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.600k	4.600k	4.600k	600	5.80k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / B	3.48	5.50	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	178.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	47 / 41 / 36			-			-	-
		Power Level dB	65 / 59 / 54			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.9 / 6.70k	10.9 / 7.05k	10.9 / 7.30k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.90 / 7.70	6.55 / 7.30	6.30 / 6.95	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			129			90 ×2			-	
Moisture removal volume		L/h	6.4 (6.4 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
	Heating	m³/min (H/M/L)	35.0 / 29.0 / 25.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	235			1416			-	
	Width	mm	1590			940			-	
	Depth	mm	690			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1556			-	
	Width	mm	1655			1055			-	
	Depth	mm	820			485			-	
Weight	(NET)	kg	40			98			-	
	(GROSS)	kg	49			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) ×2 / U-71PZH3E8

INDOOR			MODEL	S-3650PT3E(36) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-71PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	6.8	6.8	6.8	-	-	-	2.2	9.0
			BTU/h	23200	23200	23200	-	-	-	7500	30700
	Current		A	-	-	-	2.90	2.80	2.70	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			1.740k	1.740k	1.740k	380	3.35k
	Annual consumption		TOTAL kWh *4	-	-	-	-	870	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.91	3.91 / A	3.91	5.79	2.69
	ErP *6	Pdesign	kW	-	-	-	-	6.8	-	-	-
		SEER	(W/W)	-	-	-	-	6.7	-	-	-
		Annual consumption	kWh	-	-	-	-	355	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			48 / -			-	-
			Power Level dB	-			65 / -			-	-
HEATING	Capacity		kW	8.0	8.0	8.0	-	-	-	2.0	9.0
			BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current		A	-	-	-	3.35	3.20	3.10	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.020k	2.020k	2.020k	360	2.85k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.96	3.96 / A	3.96	5.56	3.16
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	4.7	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.5	-	-	-
		Annual consumption	kWh	-	-	-	-	1447	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	92	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			50 / -			-	-
			Power Level dB	-			67 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	6.90 / 4.17k	6.90 / 4.32k	6.90 / 4.47k	-	
Starting current(A) (Cooling/Heating)				-	-	-	2.90 / 3.35	2.80 / 3.20	2.70 / 3.10	-	
Comp output(W)				-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90			-	
Moisture removal volume			L/h	1.6 (0.8 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×2 / 12.0 ×2 / 10.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×2 / 12.0 ×2 / 10.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			61.0			-	-
	Heating		m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	1.32	1.92	-	
Product dimension		Height	mm	235			996			-	
		Width	mm	960			940			-	
		Depth	mm	690			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	360			1136			-	
		Width	mm	1025			1055			-	
		Depth	mm	820			485			-	
Weight		(NET)	kg	26			65			-	
		(GROSS)	kg	34			73			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				9 (10)			2 (3)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-10°C ~ 43°C			-	
		Heat (DBT)		16°C ~ 30°C			-15°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H:High at setting 5 stage (Level 5), M:Middle at setting 5 stage (Level 3), L:Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(50) ×2 / U-100PZH3E8

INDOOR			MODEL	S-3650PT3E(50) ×2			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	CZ-P155BK1							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	12.5
			BTU/h	32400	32400	32400	-	-	-	10600	42700
	Current		A	-	-	-	3.80	3.65	3.45	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.290k	2.290k	2.290k	580	3.80k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1145	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.34	3.29
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	7.0	-	-	-
		Annual consumption	kWh	-	-	-	-	474	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	4.55	4.35	4.15	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.740k	2.740k	2.740k	560	3.95k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.54	3.54
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.6	-	-	-
		Annual consumption	kWh	-	-	-	-	2326	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	9.45 / 5.80k	9.45 / 6.05k	9.45 / 6.25k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.80 / 4.55	3.65 / 4.35	3.45 / 4.15	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	4.0 (2.0 ×2)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
	Heating		m³/min (H/M/L)	15.0 ×2 / 12.5 ×2 / 10.5 ×2			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension			Height mm	235			1416			-	
			Width mm	960			940			-	
			Depth mm	690			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1556			-	
			Width mm	1025			1055			-	
			Depth mm	820			485			-	
Weight			(NET) kg	26			98			-	
			(GROSS) kg	34			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(60) ×2 / U-125PZH3E8

INDOOR		MODEL	S-6071PT3E(60) ×2			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	14.0
		BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current	A	-	-	-	5.70	5.40	5.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 ηsc	%	-	-	-	-	282.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 29			-			-	-
		Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	6.20	5.85	5.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	182.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	38 / 34 / 29			-			-	-
		Power Level dB	56 / 52 / 47			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	10.9 / 6.70k	10.9 / 7.00k	10.9 / 7.25k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.70 / 6.20	5.40 / 5.85	5.20 / 5.65	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			74			90 ×2			-	
Moisture removal volume		L/h	4.2 (2.1 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	20.0 ×2 / 17.0 ×2 / 14.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		235			1416			-	
	Width mm		1275			940			-	
	Depth mm		690			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			1556			-	
	Width mm		1340			1055			-	
	Depth mm		820			485			-	
Weight	(NET) kg		34			98			-	
	(GROSS) kg		42			110			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-6071PT3E(71) ×2 / U-140PZH3E8

INDOOR			MODEL	S-6071PT3E(71) ×2			-			-
PANEL			MODEL	-			-			-
OUTDOOR			MODEL	-			U-140PZH3E8			-
Branch pipe			MODEL	CZ-P155BK1						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	13.4	13.4	13.4	-	-	-	3.3	16.0
			BTU/h	45700	45700	45700	-	-	-	11300	54600
	Current		A	-	-	-	6.90	6.55	6.30	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.170k	4.170k	4.170k	620	6.00k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2085	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.32	2.67
	ErP *6	Pdesign	kW	-	-	-	-	13.4	-	-	-
		η_{sc}	%	-	-	-	-	265.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		39 / 35 / 30			-		-	-
			Power Level dB		57 / 53 / 48			-		-	-
	Noise outdoor		dB-A (H/L)		-			54 / -		-	-
			Power Level dB		-			71 / -		-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	-	-	-	7.60	7.20	6.95	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W		-		4.600k	4.600k	4.600k	600	5.80k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / B	3.48	5.50	3.10
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.2	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	179.0	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		39 / 35 / 30			-		-	-
			Power Level dB		57 / 53 / 48			-		-	-
	Noise outdoor		dB-A (H/L)		-			54 / -		-	-
			Power Level dB		-			71 / -		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				-	-	-	11.4 / 7.00k	11.4 / 7.35k	11.4 / 7.60k		-
Starting current(A) (Cooling/Heating)				-	-	-	6.90 / 7.60	6.55 / 7.20	6.30 / 6.95		-
Comp output(W)					-		3.00k	3.00k	3.00k		-
Time Delay fuse max size(A)					-			15			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					74			90 ×2			-
Moisture removal volume			L/h		5.4 (2.7 ×2)			-			-
External static pressure			Pa		-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		21.0 ×2 / 18.0 ×2 / 15.5 ×2			-		-	-
	Heating		m³/min (H/M/L)		21.0 ×2 / 18.0 ×2 / 15.5 ×2			-		-	-
Outdoor Air flow	Cooling		m³/min		-			129.0		-	-
	Heating		m³/min		-			116.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03		-
Product dimension		Height	mm		235			1416			-
		Width	mm		1275			940			-
		Depth	mm		690			340			-
Product dimension (Panel)		H×W×D	mm		-			-			-
Packing dimension		Height	mm		360			1556			-
		Width	mm		1340			1055			-
		Depth	mm		820			485			-
Weight		(NET)	kg		34			98			-
		(GROSS)	kg		42			110			-
		Panel (NET)	kg		-			-			-
Layers limit (actually)					9 (10)			1 (2)			-
Operation condition		Cool (DBT)			18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
		Heat (DBT)			16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method			flared type			flared type				-
	Standard length m			5 m							-
	Pipe length range m			5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m			45 g/m							-
	Pipe length for additional gas m			30 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) ×3 / U-100PZH3E8

INDOOR			MODEL	S-3650PT3E(36) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-100PZH3E8			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	9.5	9.5	9.5	-	-	-	3.1	12.5
			BTU/h	32400	32400	32400	-	-	-	10600	42700
	Current		A	-	-	-	3.80	3.65	3.55	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.290k	2.290k	2.290k	580	3.80k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1145	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.15	4.15 / A	4.15	5.34	3.29
	ErP *6	Pdesign	kW	-	-	-	-	9.5	-	-	-
		SEER	(W/W)	-	-	-	-	6.5	-	-	-
		Annual consumption	kWh	-	-	-	-	505	-	-	-
		Class		-	-	-	-	A++	-	-	-
	Power factor		%	-	-	-	91	90	90	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
HEATING	Capacity		kW	11.2	11.2	11.2	-	-	-	3.1	14.0
			BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current		A	-	-	-	4.55	4.35	4.15	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			2.740k	2.740k	2.740k	560	3.95k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.09	4.09 / A	4.09	5.54	3.54
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	7.8	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		SCOP	(W/W)	-	-	-	-	4.5	-	-	-
		Annual consumption	kWh	-	-	-	-	2401	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	A+	-	-	-
	Power factor		%	-	-	-	91	91	92	-	-
	Noise indoor *7		dB-A (H/M/L)	36 / 32 / 28			-			-	-
			Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			52 / -			-	-
			Power Level dB	-			69 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	9.90 / 6.05k	9.90 / 6.30k	9.90 / 6.50k	-	
Starting current(A) (Cooling/Heating)				-	-	-	3.80 / 4.55	3.65 / 4.35	3.55 / 4.15	-	
Comp output(W)				-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	2.4 (0.8 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	14.0 ×3 / 12.0 ×3 / 10.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	14.0 ×3 / 12.0 ×3 / 10.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			118.0			-	-
	Heating		m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas			GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)	-			675	2.06	4.03	-	
Product dimension			Height mm	235			1416			-	
			Width mm	960			940			-	
			Depth mm	690			340			-	
Product dimension (Panel)			H×W×D mm	-			-			-	
Packing dimension			Height mm	360			1556			-	
			Width mm	1025			1055			-	
			Depth mm	820			485			-	
Weight			(NET) kg	26			98			-	
			(GROSS) kg	34			110			-	
			Panel (NET) kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition			Cool (DBT)	18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
			Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(45) ×3 / U-125PZH3E8

INDOOR			MODEL	S-3650PT3E(45) ×3			-			-	
PANEL			MODEL	-			-			-	
OUTDOOR			MODEL	-			U-125PZH3E8			-	
Branch pipe			MODEL	CZ-P3HPC2							
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825							
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz				
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	12.1	12.1	12.1	-	-	-	3.2	14.0
			BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current		A	-	-	-	5.70	5.40	5.20	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption		TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6	Pdesign	kW	-	-	-	-	12.1	-	-	-
		η_{sc}	%	-	-	-	-	273.5	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
HEATING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.2	16.0
			BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current		A	-	-	-	6.20	5.85	5.65	-	-
	Input power		W	-	-	-	-	-	-	-	-
			TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	176.8	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	91	91	91	-	-
	Noise indoor *7		dB-A (H/M/L)	37 / 33 / 28			-			-	-
			Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor		dB-A (H/L)	-			53 / -			-	-
			Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				-	-	-	10.9 / 6.65k	10.9 / 6.95k	10.9 / 7.20k	-	
Starting current(A) (Cooling/Heating)				-	-	-	5.70 / 6.20	5.40 / 5.85	5.20 / 5.65	-	
Comp output(W)				-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)				-			15			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				32			90 ×2			-	
Moisture removal volume			L/h	3.3 (1.1 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			125.0			-	-
	Heating		m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	235			1416			-	
		Width	mm	960			940			-	
		Depth	mm	690			340			-	
Product dimension (Panel)		H×W×D	mm	-			-			-	
Packing dimension		Height	mm	360			1556			-	
		Width	mm	1025			1055			-	
		Depth	mm	820			485			-	
Weight		(NET)	kg	26			98			-	
		(GROSS)	kg	34			110			-	
		Panel (NET)	kg	-			-			-	
Layers limit (actually)				9 (10)			1 (2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Triple) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(50) ×3 / U-140PZH3E8

INDOOR		MODEL	S-3650PT3E(50) ×3			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-140PZH3E8			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	13.4	13.4	13.4	-	-	-	3.3	16.0
		BTU/h	45700	45700	45700	-	-	-	11300	54600
	Current	A	-	-	-	6.90	6.55	6.30	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.170k	4.170k	4.170k	620	6.00k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2085	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.21	3.21 / A	3.21	5.32	2.67
	ErP *6 Pdesign	kW	-	-	-	-	13.4	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	264.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 33 / 28			-			-	-
		Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
HEATING	Capacity	kW	16.0	16.0	16.0	-	-	-	3.3	18.0
		BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current	A	-	-	-	7.60	7.20	6.95	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			4.600k	4.600k	4.600k	600	5.80k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.48	3.48 / B	3.48	5.50	3.10
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	10.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	178.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	37 / 33 / 28			-			-	-
		Power Level dB	55 / 51 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			54 / -			-	-
		Power Level dB	-			71 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.4 / 6.95k	11.4 / 7.30k	11.4 / 7.55k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.90 / 7.60	6.55 / 7.20	6.30 / 6.95	-	
Comp output(W)			-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			90 ×2			-	
Moisture removal volume		L/h	6.0 (2.0 ×3)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
	Heating	m³/min (H/M/L)	15.0 ×3 / 12.5 ×3 / 10.5 ×3			-			-	-
Outdoor Air flow	Cooling	m³/min	-			129.0			-	-
	Heating	m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	235			1416			-	
	Width	mm	960			940			-	
	Depth	mm	690			340			-	
Product dimension (Panel)	H×W×D	mm	-			-			-	
Packing dimension	Height	mm	360			1556			-	
	Width	mm	1025			1055			-	
	Depth	mm	820			485			-	
Weight	(NET)	kg	26			98			-	
	(GROSS)	kg	34			110			-	
	Panel (NET)	kg	-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
Simultaneous (Double-twin) - Type
1-1-2. PZH3
1-1-2-4. Ceiling Type S-3650PT3E(36) ×4 / U-125PZH3E8

INDOOR		MODEL	S-3650PT3E(36) ×4			-			-	
PANEL		MODEL	-			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1 ×3							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.1	12.1	12.1	-	-	-	3.2	14.0
		BTU/h	41300	41300	41300	-	-	-	10900	47800
	Current	A	-	-	-	5.70	5.45	5.25	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.450k	3.450k	3.450k	600	4.65k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1725	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.51	3.51 / A	3.51	5.33	3.01
	ErP *6 Pdesign	kW	-	-	-	-	12.1	-	-	-
	ErP *6 ηsc	%	-	-	-	-	267.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	36 / 32 / 28			-			-	-
		Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	-	-	-	6.20	5.85	5.65	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			3.700k	3.700k	3.700k	580	5.00k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.78	3.78 / A	3.78	5.52	3.20
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 ηsh	%	-	-	-	-	173.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	36 / 32 / 28			-			-	-
		Power Level dB	54 / 50 / 46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53 / -			-	-
		Power Level dB	-			70 / -			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.4 / 6.85k	11.4 / 7.15k	11.4 / 7.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	5.70 / 6.20	5.45 / 5.85	5.25 / 5.65	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			32			90 ×2			-	
Moisture removal volume		L/h	3.2 (0.8 ×4)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×4 / 12.0 ×4 / 10.5 ×4			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×4 / 12.0 ×4 / 10.5 ×4			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		235			1416			-	
	Width mm		960			940			-	
	Depth mm		690			340			-	
Product dimension (Panel)	H×W×D mm		-			-			-	
Packing dimension	Height mm		360			1556			-	
	Width mm		1025			1055			-	
	Depth mm		820			485			-	
Weight	(NET) kg		26			98			-	
	(GROSS) kg		34			110			-	
	Panel (NET) kg		-			-			-	
Layers limit (actually)			9 (10)			1 (2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 ηsc and ηsh classification is at 230V(400V) only in accordance with EN-14825. For heating, ηsh indicates the value of only Average heating season.
*7 H: High at setting 5 stage (Level 5), M: Middle at setting 5 stage (Level 3), L: Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E / U-36PZH3E5

INDOOR		MODEL	S-36PY3E			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-36PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	3.6	3.6	3.6	-	-	-	1.2	4.0
		BTU/h	12300	12300	12300	-	-	-	4100	13600
	Current	A	-	-	-	3.95	3.80	3.60	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.800k	0.800k	0.800k	220	0.99k
	Annual consumption	TOTAL kWh *4	-	-	-	-	400	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.50	4.50 / A	4.50	5.45	4.04
	ErP *6 Pdesign	kW	-	-	-	-	3.6	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	171	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			43/-			-	-
		Power Level dB	-			62/-			-	-
HEATING	Capacity	kW	4.0	4.0	4.0	-	-	-	1.2	5.0
		BTU/h	13600	13600	13600	-	-	-	4100	17100
	Current	A	-	-	-	4.75	4.55	4.35	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			0.970k	0.970k	0.970k	220	1.45k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	4.12	4.12 / A	4.12	5.45	3.45
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	3.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1073	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			44/-			-	-
		Power Level dB	-			64/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	11.0 / 2.20k	11.0 / 2.30k	11.0 / 2.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.95 / 4.75	3.80 / 4.55	3.60 / 4.35	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			40			-	
Moisture removal volume		L/h	1.5 (1.5 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	9.5 / 7.5 / 6.0			-			-	-
	Heating	m³/min (H/M/L)	9.5 / 7.5 / 6.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			34.1			-	-
	Heating	m³/min	-			36.4			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension		Height mm	243			695			-	
		Width mm	575			875			-	
		Depth mm	575			320			-	
Product dimension (Panel)		H×W×D mm	30 × 625 × 625			-			-	
Packing dimension		Height mm	325			761			-	
		Width mm	745			1049			-	
		Depth mm	700			460			-	
Weight		(NET) kg	15			42			-	
		(GROSS) kg	20			46			-	
		Panel (NET) kg	2.8			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition		Cool (DBT)	18°C ~ 32°C			-15°C ~ 46°C			-	
		Heat (DBT)	16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF

*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.

*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.

*3 Network Impedance shall be applicable for EUROPE and CHINA models.

*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.

*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.

*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet

*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
Single - Type
1-1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-50PY3E / U-50PZH3E5

INDOOR		MODEL	S-50PY3E			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-50PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	5.0	5.0	5.0	-	-	-	1.2	5.6
		BTU/h	17100	17100	17100	-	-	-	4100	19100
	Current	A	-	-	-	6.30	6.00	5.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.330k	1.330k	1.330k	220	1.64k
	Annual consumption	TOTAL kWh *4	-	-	-	-	665	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.76	3.76 / A	3.76	5.45	3.41
	ErP *6 Pdesign	kW	-	-	-	-	5.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	7.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	248	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27			-			-	-
		Power Level dB	54/49/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			46/-			-	-
		Power Level dB	-			64/-			-	-
HEATING	Capacity	kW	5.6	5.6	5.6	-	-	-	1.2	6.5
		BTU/h	19100	19100	19100	-	-	-	4100	22200
	Current	A	-	-	-	7.85	7.50	7.20	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.660k	1.660k	1.660k	220	2.20k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.37	3.37 / C	3.37	5.45	2.95
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-9	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1370	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.23	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	96	96	96	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27			-			-	-
		Power Level dB	54/49/42			-			-	-
	Noise outdoor	dB-A (H/L)	-			48/-			-	-
		Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	12.0 / 2.46k	12.0 / 2.57k	12.0 / 2.68k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.30 / 7.85	6.00 / 7.50	5.75 / 7.20	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			20			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			40			-	
Moisture removal volume		L/h	2.3 (2.3 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	12.0 / 9.5 / 6.5			-			-	-
	Heating	m³/min (H/M/L)	12.0 / 9.5 / 6.5			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.130	1.280	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.76	0.86	-	
Product dimension	Height	mm	243			695			-	
	Width	mm	575			875			-	
	Depth	mm	575			320			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			761			-	
	Width	mm	745			1049			-	
	Depth	mm	700			460			-	
Weight	(NET)	kg	15			42			-	
	(GROSS)	kg	20			46			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications

Single - Type

1-1-2. PZH3

1-1-2-5. 4-Way Cassette 60 × 60 Type S-60PY3E / U-60PZH3E5

INDOOR		MODEL	S-60PY3E			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-60PZH3E5			-	
Branch pipe		MODEL	-							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	6.0	6.0	6.0	-	-	-	1.2	6.5
		BTU/h	20500	20500	20500	-	-	-	4100	22200
	Current	A	-	-	-	8.20	7.85	7.50	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			1.750k	1.750k	1.750k	220	2.35k
	Annual consumption	TOTAL kWh *4	-	-	-	-	875	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.43	3.43 / A	3.43	5.45	2.77
	ErP *6 Pdesign	kW	-	-	-	-	6.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.7	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	314	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	97	97	97	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			47/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	7.0	7.0	7.0	-	-	-	1.2	7.5
		BTU/h	23900	23900	23900	-	-	-	4100	25600
	Current	A	-	-	-	9.55	9.15	8.75	-	-
	Input power	W	-	-	-	-	-	-	-	-
		TOTAL W	-			2.060k	2.060k	2.060k	220	2.22k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.40	3.40 / C	3.40	5.45	3.38
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	4.6	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-9	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1498	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.26	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	98	98	98	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			69/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			-	-	-	16.4 / 3.25k	16.4 / 3.39k	16.4 / 3.54k	-	
Starting current(A) (Cooling/Heating)			-	-	-	8.20 / 9.55	7.85 / 9.15	7.50 / 8.75	-	
Comp output(W)			-			0.90k	0.90k	0.90k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			40			-	
Moisture removal volume		L/h	2.8 (2.8 ×1)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 / 10.5 / 8.0			-			-	-
	Heating	m³/min (H/M/L)	14.0 / 10.5 / 8.0			-			-	-
Outdoor Air flow	Cooling	m³/min	-			42.0			-	-
	Heating	m³/min	-			42.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.150	1.300	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	0.78	0.88	-	
Product dimension	Height mm		243			695			-	
	Width mm		575			875			-	
	Depth mm		575			320			-	
Product dimension (Panel)	H×W×D mm		30 × 625 × 625			-			-	
Packing dimension	Height mm		325			761			-	
	Width mm		745			1049			-	
	Depth mm		700			460			-	
Weight	(NET) kg		15			43			-	
	(GROSS) kg		20			47			-	
	Panel (NET) kg		2.8			-			-	
Layers limit (actually)			11(12)			3(4)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.55						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			-	
	Pipe diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2) *Connect the gas socket tube(Ø12.7-Ø15.88) to the gas tubing side indoor unit *Connect the liquid socket tube(Ø6.35-Ø9.52) to the liquid tubing side indoor unit						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		3 ~ 40 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		15 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E ×2 / U-71PZH3E5

INDOOR		MODEL	S-36PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-71PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.2	9.0
		BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current	A	0.24 ×2	0.23 ×2	0.22 ×2	10.4	9.95	9.50	-	-
	Input power	W	21 ×2	21 ×2	21 ×2	-	-	-	-	-
		TOTAL W	-			2.080k	2.080k	2.080k	380	3.50k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1040	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.79	2.57
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.3	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	391	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			48/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	8.0	8.0	8.0	-	-	-	2.0	9.0
		BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current	A	0.21 ×2	0.20 ×2	0.20 ×2	10.3	9.80	9.40	-	-
	Input power	W	19 ×2	19 ×2	19 ×2	-	-	-	-	-
		TOTAL W	-			2.100k	2.100k	2.100k	360	3.25k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.81	3.81 / A	3.81	5.56	2.77
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1595	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.26/31 ×2	0.26/31 ×2	0.26/31 ×2	18.4 / 3.80k	18.3 / 3.95k	18.3 / 4.15k	-	
Starting current(A) (Cooling/Heating)			-	-	-	10.4 / 10.3	9.95 / 9.80	9.50 / 9.40	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			25			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90			-	
Moisture removal volume		L/h	3.0 (1.5×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	9.5 ×2 / 7.5 ×2 / 6.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	9.5 ×2 / 7.5 ×2 / 6.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			61.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height	mm	243			996			-	
	Width	mm	575			940			-	
	Depth	mm	575			340			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1136			-	
	Width	mm	745			1055			-	
	Depth	mm	700			485			-	
Weight	(NET)	kg	15			65			-	
	(GROSS)	kg	20			73			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 46°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-50PY3E ×2 / U-100PZH3E5

INDOOR		MODEL	S-50PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-100PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.1	12.5
		BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current	A	0.32 ×2	0.30 ×2	0.29 ×2	13.1	12.5	12.0	-	-
	Input power	W	34 ×2	34 ×2	34 ×2	-	-	-	-	-
		TOTAL W		-		2.680k	2.680k	2.680k	580	4.31k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1340	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.73	3.73 / A	3.73	5.34	2.90
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	561	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)		39/34/27			-		-	-
		Power Level dB		54/49/42			-		-	-
	Noise outdoor	dB-A (H/L)		-			52/-		-	-
		Power Level dB		-			69/-		-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	0.30 ×2	0.28 ×2	0.27 ×2	14.2	13.6	13.1	-	-
	Input power	W	32 ×2	32 ×2	32 ×2	-	-	-	-	-
		TOTAL W		-		2.900k	2.900k	2.900k	560	4.63k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	5.54	3.02
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2838	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	93	93	92	-	-
	Noise indoor *7	dB-A (H/M/L)		39/34/27			-		-	-
		Power Level dB		54/49/42			-		-	-
	Noise outdoor	dB-A (H/L)		-			52/-		-	-
		Power Level dB		-			69/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-	-	
Max Current(A) / Max Input power(W)			0.35/45 ×2	0.35/45 ×2	0.35/45 ×2	24.9 / 5.25k	24.8 / 5.45k	24.8 / 5.70k	-	
Starting current(A) (Cooling/Heating)			-	-	-	13.1 / 14.2	12.5 / 13.6	12.0 / 13.1	-	
Comp output(W)				-		2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)				-			30		-	
Network Impedance(ΩMAX.)				-			-		-	
Fan motor output (Indoor/Outdoor) W				31			90×2		-	
Moisture removal volume		L/h		4.6 (2.3 ×2)			-		-	
External static pressure		Pa		-			-		-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)		12.0 ×2 / 9.5 ×2 / 6.5 ×2			-		-	-
	Heating	m³/min (H/M/L)		12.0 ×2 / 9.5 ×2 / 6.5 ×2			-		-	-
Outdoor Air flow	Cooling	m³/min		-			118.0		-	-
	Heating	m³/min		-			108.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-		R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-		675	2.06	4.03	-	
Product dimension	Height mm			243			1416		-	
	Width mm			575			940		-	
	Depth mm			575			340		-	
Product dimension (Panel)	H×W×D mm			30 × 625 × 625			-		-	
Packing dimension	Height mm			325			1556		-	
	Width mm			745			1055		-	
	Depth mm			700			485		-	
Weight	(NET) kg			15			98		-	
	(GROSS) kg			20			110		-	
	Panel (NET) kg			2.8			-		-	
Layers limit (actually)				11(12)			1(2)		-	
Operation condition	Cool (DBT)			18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C		-	
	Heat (DBT)			16°C ~ 30°C			-20°C ~ 24°C		-	
Max Working Pressure HP/LP MPa				4.15 / 2.70					-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)		-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)					-	
	Connecting method			flared type			flared type		-	
	Standard length m			5 m					-	
	Pipe length range m			5 ~ 85 m					-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)					-	
	Add gas amount g/m			45 g/m					-	
	Pipe length for additional gas m			30 m					-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
Simultaneous (Twin) - Type

1-1-2-5. 4-Way Cassette 60 × 60 Type S-60PY3E ×2 / U-125PZH3E5

INDOOR		MODEL	S-60PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	0.41 ×2	0.39 ×2	0.38 ×2	19.7	18.8	18.1	-	-
	Input power	W	48 ×2	48 ×2	48 ×2	-	-	-	-	-
		TOTAL W	-			4.030k	4.030k	4.030k	600	5.37k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2015	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.33	2.61
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	245.0	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	93	93	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53/-			-	-
		Power Level dB	-			70/-			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	0.39 ×2	0.37 ×2	0.36 ×2	18.6	18.0	17.2	-	-
	Input power	W	46 ×2	46 ×2	46 ×2	-	-	-	-	-
		TOTAL W	-			3.800k	3.800k	3.800k	580	5.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.68	3.68 / A	3.68	5.52	2.99
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	93	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53/-			-	-
		Power Level dB	-			70/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.47/6 ×2	0.46/62 ×2	0.45/62 ×2	28.0 / 5.85k	28.0 / 6.10k	27.9 / 6.40k	-	
Starting current(A) (Cooling/Heating)			-	-	-	19.7 / 18.6	18.8 / 18.0	18.1 / 17.2	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			35			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90×2			-	
Moisture removal volume		L/h	5.6 (2.8 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×2 / 10.5 ×2 / 8.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×2 / 10.5 ×2 / 8.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	243			1416			-	
	Width	mm	575			940			-	
	Depth	mm	575			340			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1556			-	
	Width	mm	745			1055			-	
	Depth	mm	700			485			-	
Weight	(NET)	kg	15			98			-	
	(GROSS)	kg	20			110			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			1(2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E ×3 / U-100PZH3E5

INDOOR		MODEL	S-36PY3E ×3			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-100PZH3E5			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.1	12.5
		BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current	A	0.24 ×3	0.23 ×3	0.22 ×3	13.2	12.7	12.1	-	-
	Input power	W	21 ×3	21 ×3	21 ×3	-	-	-	-	-
		TOTAL W		-		2.680k	2.680k	2.680k	580	4.31k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1340	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.73	3.73 / A	3.73	5.34	2.90
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	567	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)		34/30/25			-		-	-
		Power Level dB		49/45/40			-		-	-
	Noise outdoor	dB-A (H/L)		-			52/-		-	-
		Power Level dB		-			69/-		-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	0.21 ×3	0.20 ×3	0.20 ×3	14.3	13.7	13.1	-	-
	Input power	W	19 ×3	19 ×3	19 ×3	-	-	-	-	-
		TOTAL W		-		2.900k	2.900k	2.900k	560	4.63k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	5.54	3.02
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2840	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)		34/30/25			-		-	-
		Power Level dB		49/45/40			-		-	-
	Noise outdoor	dB-A (H/L)		-			52/-		-	-
		Power Level dB		-			69/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-		-
Max Current(A) / Max Input power(W)			0.26/31 ×3	0.26/31 ×3	0.26/31 ×3	25.4 / 5.30k	25.3 / 5.50k	25.2 / 5.75k		-
Starting current(A) (Cooling/Heating)			-	-	-	13.2 / 14.3	12.7 / 13.7	12.1 / 13.1		-
Comp output(W)				-		2.50k	2.50k	2.50k		-
Time Delay fuse max size(A)				-			35			-
Network Impedance(ΩMAX.)				-			-			-
Fan motor output (Indoor/Outdoor) W				31			90×2			-
Moisture removal volume		L/h		4.5 (1.5 ×3)			-			-
External static pressure		Pa		-			-			-
Indoor Air flow *7	Cooling	m³/min (H/M/L)		9.5 ×3 / 7.5 ×3 / 6.0 ×3			-		-	-
	Heating	m³/min (H/M/L)		9.5 ×3 / 7.5 ×3 / 6.0 ×3			-		-	-
Outdoor Air flow	Cooling	m³/min		-			118.0		-	-
	Heating	m³/min		-			108.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-		675	2.06	4.03		-
Product dimension	Height	mm		243			1416			-
	Width	mm		575			940			-
	Depth	mm		575			340			-
Product dimension (Panel)	H×W×D	mm		30 × 625 × 625			-			-
Packing dimension	Height	mm		325			1556			-
	Width	mm		745			1055			-
	Depth	mm		700			485			-
Weight	(NET)	kg		15			98			-
	(GROSS)	kg		20			110			-
	Panel (NET)	kg		2.8			-			-
Layers limit (actually)				11(12)			1(2)			-
Operation condition	Cool (DBT)			18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
	Heat (DBT)			16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa				4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method		flared type			flared type				-
	Standard length m		5 m							-
	Pipe length range m		5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m		45 g/m							-
	Pipe length for additional gas m		20 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-50PY3E ×3 / U-140PZH3E5

INDOOR			MODEL	S-50PY3E ×3			-			-
PANEL			MODEL	CZ-KPY4			-			-
OUTDOOR			MODEL	-			U-140PZH3E5			-
Branch pipe			MODEL	CZ-P3HPC2						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			1Ø 50Hz			
			V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	0.32 ×3	0.30 ×3	0.29 ×3	23.9	22.8	21.9	-	-
	Input power		W	34 ×3	34 ×3	34 ×3	-	-	-	-	-
			TOTAL W	-			4.880k	4.880k	4.880k	620	6.00k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2440	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.87	2.87 / C	2.87	5.32	2.67
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	233.4	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	39/34/27			-			-	-
			Power Level dB	54/49/42			-			-	-
	Noise outdoor		dB-A (H/L)	-			54/-			-	-
			Power Level dB	-			71/-			-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	0.30 ×3	0.28 ×3	0.27 ×3	23.8	22.8	21.8	-	-
	Input power		W	32 ×3	32 ×3	32 ×3	-	-	-	-	-
			TOTAL W	-			4.870k	4.870k	4.870k	600	5.99k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.29	3.29 / C	3.29	5.50	3.01
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	146.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	93	93	93	-	-
	Noise indoor *7		dB-A (H/M/L)	39/34/27			-			-	-
			Power Level dB	54/49/42			-			-	-
	Noise outdoor		dB-A (H/L)	-			54/-			-	-
			Power Level dB	-			71/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-			-	-	-	-	
Max Current(A) / Max Input power(W)				0.35/45 ×3	0.35/45 ×3	0.35/45 ×3	29.4 / 6.15k	29.3 / 6.40k	29.2 / 6.65k	-	
Starting current(A) (Cooling/Heating)				-	-	-	23.9 / 23.8	22.8 / 22.8	21.9 / 21.8	-	
Comp output(W)				-			3.00k	3.00k	3.00k	-	
Time Delay fuse max size(A)				-			40			-	
Network Impedance(ΩMAX.)				-			-			-	
Fan motor output (Indoor/Outdoor) W				31			90×2			-	
Moisture removal volume			L/h	6.9 (2.3 ×3)			-			-	
External static pressure			Pa	-			-			-	
Indoor Air flow *7	Cooling		m³/min (H/M/L)	12.0 ×3 / 9.5 ×3 / 6.5 ×3			-			-	-
	Heating		m³/min (H/M/L)	12.0 ×3 / 9.5 ×3 / 6.5 ×3			-			-	-
Outdoor Air flow	Cooling		m³/min	-			129.0			-	-
	Heating		m³/min	-			116.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-			675	2.06	4.03	-	
Product dimension		Height	mm	243			1416			-	
		Width	mm	575			940			-	
		Depth	mm	575			340			-	
Product dimension (Panel)		H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension		Height	mm	325			1556			-	
		Width	mm	745			1055			-	
		Depth	mm	700			485			-	
Weight		(NET)	kg	15			98			-	
		(GROSS)	kg	20			110			-	
		Panel (NET)	kg	2.8			-			-	
Layers limit (actually)				11(12)			1(2)			-	
Operation condition		Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
		Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa				4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method			flared type			flared type			-	
	Standard length m			5 m						-	
	Pipe length range m			5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m			45 g/m						-	
	Pipe length for additional gas m			20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E ×4 / U-125PZH3E5

INDOOR		MODEL	S-36PY3E ×4			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1 ×3							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			1Ø 50Hz				
		V	220V	230V	240V	220V	230V	240V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	0.24 ×4	0.23 ×4	0.22 ×4	19.9	19.0	18.3	-	-
	Input power	W	21 ×4	21 ×4	21 ×4	-	-	-	-	-
		TOTAL W		-		4.030k	4.030k	4.030k	600	5.37k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2015	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.33	2.61
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	245.4	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)		34/30/25			-		-	-
		Power Level dB		49/45/40			-		-	-
	Noise outdoor	dB-A (H/L)		-			53/-		-	-
		Power Level dB		-			70/-		-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	0.21 ×4	0.20 ×4	0.20 ×4	18.8	18.0	17.2	-	-
	Input power	W	19 ×4	19 ×4	19 ×4	-	-	-	-	-
		TOTAL W		-		3.800k	3.800k	3.800k	580	5.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.68	3.68 / A	3.68	5.52	2.99
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)		34/30/25			-		-	-
		Power Level dB		49/45/40			-		-	-
	Noise outdoor	dB-A (H/L)		-			53/-		-	-
		Power Level dB		-			70/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP			-		-	-	-		-
Max Current(A) / Max Input power(W)			0.26/31 ×4	0.26/31 ×4	0.26/31 ×4	28.8 / 5.95k	28.7 / 6.20k	28.6 / 6.50k		-
Starting current(A) (Cooling/Heating)			-	-	-	19.9 / 18.8	19.0 / 18.0	18.3 / 17.2		-
Comp output(W)				-		2.80k	2.80k	2.80k		-
Time Delay fuse max size(A)				-			35			-
Network Impedance(ΩMAX.)				-			-			-
Fan motor output (Indoor/Outdoor) W				31			90×2			-
Moisture removal volume		L/h		6.0 (1.5 ×4)			-			-
External static pressure		Pa		-			-			-
Indoor Air flow *7	Cooling	m³/min (H/M/L)		9.5 ×4 / 7.5 ×4 / 6.0 ×4			-		-	-
	Heating	m³/min (H/M/L)		9.5 ×4 / 7.5 ×4 / 6.0 ×4			-		-	-
Outdoor Air flow	Cooling	m³/min		-			125.0		-	-
	Heating	m³/min		-			112.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg				-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)			-		675	2.06	4.03		-
Product dimension	Height	mm		243			1416			-
	Width	mm		575			940			-
	Depth	mm		575			340			-
Product dimension (Panel)	H×W×D	mm		30 × 625 × 625			-			-
Packing dimension	Height	mm		325			1556			-
	Width	mm		745			1055			-
	Depth	mm		700			485			-
Weight	(NET)	kg		15			98			-
	(GROSS)	kg		20			110			-
	Panel (NET)	kg		2.8			-			-
Layers limit (actually)				11(12)			1(2)			-
Operation condition	Cool (DBT)			18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
	Heat (DBT)			16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa				4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method		flared type			flared type				-
	Standard length m		5 m							-
	Pipe length range m		5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m		45 g/m							-
	Pipe length for additional gas m		20 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E ×2 / U-71PZH3E8

INDOOR		MODEL	S-36PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-71PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	7.1	7.1	7.1	-	-	-	2.2	9.0
		BTU/h	24200	24200	24200	-	-	-	7500	30700
	Current	A	0.24 ×2	0.23 ×2	0.22 ×2	3.45	3.35	3.20	-	-
	Input power	W	21 ×2	21 ×2	21 ×2	-	-	-	-	-
		TOTAL W	-			2.080k	2.080k	2.080k	380	3.50k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1040	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.41	3.41 / A	3.41	5.79	2.57
	ErP *6 Pdesign	kW	-	-	-	-	7.1	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	395	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			48/-			-	-
		Power Level dB	-			65/-			-	-
HEATING	Capacity	kW	8.0	8.0	8.0	-	-	-	2.0	9.0
		BTU/h	27300	27300	27300	-	-	-	6800	30700
	Current	A	0.21 ×2	0.20 ×2	0.20 ×2	3.45	3.35	3.20	-	-
	Input power	W	19 ×2	19 ×2	19 ×2	-	-	-	-	-
		TOTAL W	-			2.100k	2.100k	2.100k	360	3.25k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.81	3.81 / A	3.81	5.56	2.77
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	5.2	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	4.5	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	1596	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A+	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			50/-			-	-
		Power Level dB	-			67/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.26/31 ×2	0.26/31 ×2	0.26/31 ×2	6.30 / 3.90k	6.30 / 4.05k	6.30 / 4.20k	-	
Starting current(A) (Cooling/Heating)			-	-	-	3.45 / 3.45	3.35 / 3.35	3.20 / 3.20	-	
Comp output(W)			-			2.00k	2.00k	2.00k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90			-	
Moisture removal volume		L/h	3.0 (1.5 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	9.5 ×2 / 7.5 ×2 / 6.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	9.5 ×2 / 7.5 ×2 / 6.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			61.0			-	-
	Heating	m³/min	-			60.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	1.950	2.850	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	1.32	1.92	-	
Product dimension	Height	mm	243			996			-	
	Width	mm	575			940			-	
	Depth	mm	575			340			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1136			-	
	Width	mm	745			1055			-	
	Depth	mm	700			485			-	
Weight	(NET)	kg	15			65			-	
	(GROSS)	kg	20			73			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			2 (3)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 50 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-50PY3E ×2 / U-100PZH3E8

INDOOR		MODEL	S-50PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-100PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.1	12.5
		BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current	A	0.32 ×2	0.30 ×2	0.29 ×2	4.45	4.25	4.05	-	-
	Input power	W	34 ×2	34 ×2	34 ×2	-	-	-	-	-
		TOTAL W		-		2.680k	2.680k	2.680k	580	4.31k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1340	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.73	3.73 / A	3.73	5.34	2.90
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	568	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27				-		-	-
		Power Level dB	54/49/42				-		-	-
	Noise outdoor	dB-A (H/L)	-				52/-		-	-
		Power Level dB	-				69/-		-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	0.30 ×2	0.28 ×2	0.27 ×2	4.85	4.60	4.40	-	-
	Input power	W	32 ×2	32 ×2	32 ×2	-	-	-	-	-
		TOTAL W		-		2.900k	2.900k	2.900k	560	4.63k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	5.54	3.02
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2838	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	39/34/27				-		-	-
		Power Level dB	54/49/42				-		-	-
	Noise outdoor	dB-A (H/L)	-				52/-		-	-
		Power Level dB	-				69/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.35/45 ×2	0.35/45 ×2	0.35/45 ×2	8.80 / 5.50k	8.80 / 5.75k	8.80 / 5.95k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.45 / 4.85	4.25 / 4.60	4.05 / 4.40	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90×2			-	
Moisture removal volume		L/h	4.6 (2.3 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	12.0 ×2 / 9.5 ×2 / 6.5 ×2			-			-	-
	Heating	m³/min (H/M/L)	12.0 ×2 / 9.5 ×2 / 6.5 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	243			1416			-	
	Width	mm	575			940			-	
	Depth	mm	575			340			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1556			-	
	Width	mm	745			1055			-	
	Depth	mm	700			485			-	
Weight	(NET)	kg	15			98			-	
	(GROSS)	kg	20			110			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			1(2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		30 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
Simultaneous (Twin) - Type

1-1-2-5. 4-Way Cassette 60 × 60 Type S-60PY3E ×2 / U-125PZH3E8

INDOOR		MODEL	S-60PY3E ×2			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-125PZH3E5			-	
Branch pipe		MODEL	CZ-P155BK1 ×3							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	0.41 ×2	0.39 ×2	0.38 ×2	6.65	6.30	6.10	-	-
	Input power	W	48 ×2	48 ×2	48 ×2	-	-	-	-	-
		TOTAL W	-			4.030k	4.030k	4.030k	600	5.37k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2015	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.33	2.61
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	243.8	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	92	92	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53/-			-	-
		Power Level dB	-			70/-			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	0.39 ×2	0.37 ×2	0.36 ×2	6.35	6.05	5.80	-	-
	Input power	W	46 ×2	46 ×2	46 ×2	-	-	-	-	-
		TOTAL W	-			3.800k	3.800k	3.800k	580	5.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.68	3.68 / A	3.68	5.52	2.99
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	43/37/31			-			-	-
		Power Level dB	58/52/46			-			-	-
	Noise outdoor	dB-A (H/L)	-			53/-			-	-
		Power Level dB	-			70/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.47/62 ×2	0.46/62 ×2	0.45/62 ×2	9.85 / 6.10k	9.85 / 6.40k	9.80 / 6.65k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.65 / 6.35	6.30 / 6.05	6.10 / 5.80	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90×2			-	
Moisture removal volume		L/h	5.6 (2.8 ×2)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	14.0 ×2 / 10.5 ×2 / 8.0 ×2			-			-	-
	Heating	m³/min (H/M/L)	14.0 ×2 / 10.5 ×2 / 8.0 ×2			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height mm		243			1416			-	
	Width mm		575			940			-	
	Depth mm		575			340			-	
Product dimension (Panel)	H×W×D mm		30 × 625 × 625			-			-	
Packing dimension	Height mm		325			1556			-	
	Width mm		745			1055			-	
	Depth mm		700			485			-	
Weight	(NET) kg		15			98			-	
	(GROSS) kg		20			110			-	
	Panel (NET) kg		2.8			-			-	
Layers limit (actually)			11(12)			1(2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E ×3 / U-100PZH3E8

INDOOR		MODEL	S-36PY3E ×3			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-100PZH3E8			-	
Branch pipe		MODEL	CZ-P3HPC2							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	10.0	10.0	10.0	-	-	-	3.1	12.5
		BTU/h	34100	34100	34100	-	-	-	10600	42700
	Current	A	0.24 ×3	0.23 ×3	0.22 ×3	4.45	4.30	4.15	-	-
	Input power	W	21 ×3	21 ×3	21 ×3	-	-	-	-	-
		TOTAL W	-			2.680k	2.680k	2.680k	580	4.31k
	Annual consumption	TOTAL kWh *4	-	-	-	-	1340	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.73	3.73 / A	3.73	5.34	2.90
	ErP *6 Pdesign	kW	-	-	-	-	10.0	-	-	-
	ErP *6 SEER	(W/W)	-	-	-	-	6.1	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	573	-	-	-
	ErP *6 Class		-	-	-	-	A++	-	-	-
	Power factor	%	-	-	-	91	90	90	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			52/-			-	-
		Power Level dB	-			69/-			-	-
HEATING	Capacity	kW	11.2	11.2	11.2	-	-	-	3.1	14.0
		BTU/h	38200	38200	38200	-	-	-	10600	47800
	Current	A	0.21 ×3	0.20 ×3	0.20 ×3	4.85	4.60	4.40	-	-
	Input power	W	19 ×3	19 ×3	19 ×3	-	-	-	-	-
		TOTAL W	-			2.900k	2.900k	2.900k	560	4.63k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.86	3.86 / A	3.86	5.54	3.02
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	8.0	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 SCOP	(W/W)	-	-	-	-	3.9	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	2840	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	A	-	-	-
	Power factor	%	-	-	-	91	91	92	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			52/-			-	-
		Power Level dB	-			69/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.26/31 ×3	0.26/31 ×3	0.26/31 ×3	8.95 / 5.55k	8.98 / 5.80k	8.90 / 6.00k	-	
Starting current(A) (Cooling/Heating)			-	-	-	4.45 / 4.85	4.30 / 4.60	4.15 / 4.40	-	
Comp output(W)			-			2.50k	2.50k	2.50k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90×2			-	
Moisture removal volume		L/h	4.5 (1.5 ×3)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	9.5 ×3 / 7.5 ×3 / 6.0 ×3			-			-	-
	Heating	m³/min (H/M/L)	9.5 ×3 / 7.5 ×3 / 6.0 ×3			-			-	-
Outdoor Air flow	Cooling	m³/min	-			118.0			-	-
	Heating	m³/min	-			108.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	243			1416			-	
	Width	mm	575			940			-	
	Depth	mm	575			340			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1556			-	
	Width	mm	745			1055			-	
	Depth	mm	700			485			-	
Weight	(NET)	kg	15			98			-	
	(GROSS)	kg	20			110			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			1(2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 SEER and SCOP classification is at 230V(400V) only in accordance with EN-14825. For heating, SCOP indicates the value of only Average heating season, Other fiche data indicates in an attached sheet
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-50PY3E ×3 / U-140PZH3E8

INDOOR			MODEL	S-50PY3E ×3			-			-
PANEL			MODEL	CZ-KPY4			-			-
OUTDOOR			MODEL	-			U-140PZH3E8			-
Branch pipe			MODEL	CZ-P3HPC2						
Performance test condition				ISO5151 / EN14511 / EN12102 / EN14825						
Power supply			Ø, Hz	1Ø 50Hz			3Ø 50Hz			
			V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity		kW	14.0	14.0	14.0	-	-	-	3.3	16.0
			BTU/h	47800	47800	47800	-	-	-	11300	54600
	Current		A	0.32 ×3	0.30 ×3	0.29 ×3	8.05	7.65	7.40	-	-
	Input power		W	34 ×3	34 ×3	34 ×3	-	-	-	-	-
			TOTAL W		-		4.880k	4.880k	4.880k	620	6.00k
	Annual consumption		TOTAL kWh *4	-	-	-	-	2440	-	-	-
	EER/EER CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	2.87	2.87 / C	2.87	5.32	2.67
	ErP *6	Pdesign	kW	-	-	-	-	14.0	-	-	-
		η_{sc}	%	-	-	-	-	232.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		39/34/27			-		-	-
			Power Level dB		54/49/42			-		-	-
	Noise outdoor		dB-A (H/L)		-			54/-		-	-
			Power Level dB		-			71/-		-	-
HEATING	Capacity		kW	16.0	16.0	16.0	-	-	-	3.3	18.0
			BTU/h	54600	54600	54600	-	-	-	11300	61400
	Current		A	0.30 ×3	0.28 ×3	0.27 ×3	8.05	7.65	7.35	-	-
	Input power		W	32 ×3	32 ×3	32 ×3	-	-	-	-	-
			TOTAL W		-		4.870k	4.870k	4.870k	600	5.99k
	COP/COP CLASS		TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.29	3.29 / C	3.29	5.50	3.01
	ErP *6	Pdesign at -10°C	kW	-	-	-	-	10.6	-	-	-
		Tbivalent	°C	-	-	-	-	-10	-	-	-
		η_{sh}	%	-	-	-	-	146.2	-	-	-
		Annual consumption	kWh	-	-	-	-	-	-	-	-
		elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
		Class		-	-	-	-	-	-	-	-
	Power factor		%	-	-	-	92	92	92	-	-
	Noise indoor *7		dB-A (H/M/L)		39/34/27			-		-	-
			Power Level dB		54/49/42			-		-	-
	Noise outdoor		dB-A (H/L)		-			54/-		-	-
			Power Level dB		-			71/-		-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP				-		-	-	-		-
Max Current(A) / Max Input power(W)				0.35/45 ×3	0.35/45 ×3	0.35/45 ×3	10.5 / 6.45k	10.4 / 6.80k	10.4 / 7.05k		-
Starting current(A) (Cooling/Heating)				-	-	-	8.05 / 8.05	7.65 / 7.65	7.40 / 7.35		-
Comp output(W)					-		3.00k	3.00k	3.00k		-
Time Delay fuse max size(A)					-			15			-
Network Impedance(ΩMAX.)					-			-			-
Fan motor output (Indoor/Outdoor) W					31			90×2			-
Moisture removal volume			L/h		6.9 (2.3 ×3)			-			-
External static pressure			Pa		-			-			-
Indoor Air flow *7	Cooling		m³/min (H/M/L)		12.0 ×3 / 9.5 ×3 / 6.5 ×3			-		-	-
	Heating		m³/min (H/M/L)		12.0 ×3 / 9.5 ×3 / 6.5 ×3			-		-	-
Outdoor Air flow	Cooling		m³/min		-			129.0		-	-
	Heating		m³/min		-			116.0		-	-
Refrigerant type / amount(ship) kg / amount(max) kg					-		R32	3.050	5.975		-
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)				-		675	2.06	4.03		-
Product dimension			Height mm		243			1416			-
			Width mm		575			940			-
			Depth mm		575			340			-
Product dimension (Panel)			H×W×D mm		30 × 625 × 625			-			-
Packing dimension			Height mm		325			1556			-
			Width mm		745			1055			-
			Depth mm		700			485			-
Weight			(NET) kg		15			98			-
			(GROSS) kg		20			110			-
			Panel (NET) kg		2.8			-			-
Layers limit (actually)					11(12)			1(2)			-
Operation condition			Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-
			Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-
Max Working Pressure HP/LP MPa					4.15 / 2.70						-
PIPING	Pipe port diameter mm (inch)			(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)				-
	Pipe diameter mm (inch)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)							-
	Connecting method			flared type			flared type				-
	Standard length m			5 m							-
	Pipe length range m			5 ~ 85 m							-
	Indoor unit & Outdoor unit height difference m			15 m(OD located lower) / 30 m(OD located higher)							-
	Add gas amount g/m			45 g/m							-
	Pipe length for additional gas m			20 m							-

* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-1. Unit Specifications
1-2. PZH3
1-1-2-5. 4-Way Cassette 60 × 60 Type S-36PY3E ×4 / U-125PZH3E8

INDOOR		MODEL	S-36PY3E ×4			-			-	
PANEL		MODEL	CZ-KPY4			-			-	
OUTDOOR		MODEL	-			U-125PZH3E8			-	
Branch pipe		MODEL	CZ-P155BK1 ×3							
Performance test condition			ISO5151 / EN14511 / EN12102 / EN14825							
Power supply		Ø, Hz	1Ø 50Hz			3Ø 50Hz				
		V	220V	230V	240V	380V	400V	415V	Min	Max
COOLING	Capacity	kW	12.5	12.5	12.5	-	-	-	3.2	14.0
		BTU/h	42700	42700	42700	-	-	-	10900	47800
	Current	A	0.24 ×4	0.23 ×4	0.22 ×4	6.65	6.40	6.15	-	-
	Input power	W	21 ×4	21 ×4	21 ×4	-	-	-	-	-
		TOTAL W	-			4.030k	4.030k	4.030k	600	5.37k
	Annual consumption	TOTAL kWh *4	-	-	-	-	2015	-	-	-
	EER/EER CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.10	3.10 / B	3.10	5.33	2.61
	ErP *6 Pdesign	kW	-	-	-	-	12.5	-	-	-
	ErP *6 η_{sc}	%	-	-	-	-	244.2	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	92	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			53/-			-	-
		Power Level dB	-			70/-			-	-
HEATING	Capacity	kW	14.0	14.0	14.0	-	-	-	3.2	16.0
		BTU/h	47800	47800	47800	-	-	-	10900	54600
	Current	A	0.21 ×4	0.20 ×4	0.20 ×4	6.35	6.05	5.80	-	-
	Input power	W	19 ×4	19 ×4	19 ×4	-	-	-	-	-
		TOTAL W	-			3.800k	3.800k	3.800k	580	5.35k
	COP/COP CLASS	TOTAL (W/W) *5/ ("A"~"G")	-	-	-	3.68	3.68 / A	3.68	5.52	2.99
	ErP *6 Pdesign at -10°C	kW	-	-	-	-	9.5	-	-	-
	ErP *6 Tbivalent	°C	-	-	-	-	-10	-	-	-
	ErP *6 η_{sh}	%	-	-	-	-	152.6	-	-	-
	ErP *6 Annual consumption	kWh	-	-	-	-	-	-	-	-
	ErP *6 elbu(-10°C)	kW	-	-	-	-	0.00	-	-	-
	ErP *6 Class		-	-	-	-	-	-	-	-
	Power factor	%	-	-	-	91	91	91	-	-
	Noise indoor *7	dB-A (H/M/L)	34/30/25			-			-	-
		Power Level dB	49/45/40			-			-	-
	Noise outdoor	dB-A (H/L)	-			53/-			-	-
		Power Level dB	-			70/-			-	-
LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
EXTRA LOW TEMP	Total capacity(kW) / Input power(W) / COP		-			-	-	-	-	
Max Current(A) / Max Input power(W)			0.26/31 ×4	0.26/31 ×4	0.26/31 ×4	10.1 / 6.20k	10.1 / 6.50k	10.1 / 6.75k	-	
Starting current(A) (Cooling/Heating)			-	-	-	6.65 / 6.35	6.40 / 6.05	6.15 / 5.80	-	
Comp output(W)			-			2.80k	2.80k	2.80k	-	
Time Delay fuse max size(A)			-			15			-	
Network Impedance(ΩMAX.)			-			-			-	
Fan motor output (Indoor/Outdoor) W			31			90×2			-	
Moisture removal volume		L/h	6.0 (1.5 ×4)			-			-	
External static pressure		Pa	-			-			-	
Indoor Air flow *7	Cooling	m³/min (H/M/L)	9.5 ×4 / 7.5 ×4 / 6.0 ×4			-			-	-
	Heating	m³/min (H/M/L)	9.5 ×4 / 7.5 ×4 / 6.0 ×4			-			-	-
Outdoor Air flow	Cooling	m³/min	-			125.0			-	-
	Heating	m³/min	-			112.0			-	-
Refrigerant type / amount(ship) kg / amount(max) kg			-			R32	3.050	5.975	-	
F-Gas	GWP / CO2eq (ton) (PRECHARGED AMOUNT) / CO2eq (ton) (MAXIMUM CHARGED AMOUNT)		-			675	2.06	4.03	-	
Product dimension	Height	mm	243			1416			-	
	Width	mm	575			940			-	
	Depth	mm	575			340			-	
Product dimension (Panel)	H×W×D	mm	30 × 625 × 625			-			-	
Packing dimension	Height	mm	325			1556			-	
	Width	mm	745			1055			-	
	Depth	mm	700			485			-	
Weight	(NET)	kg	15			98			-	
	(GROSS)	kg	20			110			-	
	Panel (NET)	kg	2.8			-			-	
Layers limit (actually)			11(12)			1(2)			-	
Operation condition	Cool (DBT)		18°C ~ 32°C			-15°C(*8 -20°C) ~ 48°C			-	
	Heat (DBT)		16°C ~ 30°C			-20°C ~ 24°C			-	
Max Working Pressure HP/LP MPa			4.15 / 2.70						-	
PIPING	Pipe port diameter mm (inch)		(Liquid)Ø6.35(1/4) (Gas)Ø12.7(1/2)			(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)			-	
	Pipe diameter mm (inch)		(Liquid)Ø9.52(3/8) (Gas)Ø15.88(5/8)						-	
	Connecting method		flared type			flared type			-	
	Standard length m		5 m						-	
	Pipe length range m		5 ~ 85 m						-	
	Indoor unit & Outdoor unit height difference m		15 m(OD located lower) / 30 m(OD located higher)						-	
	Add gas amount g/m		45 g/m						-	
	Pipe length for additional gas m		20 m						-	

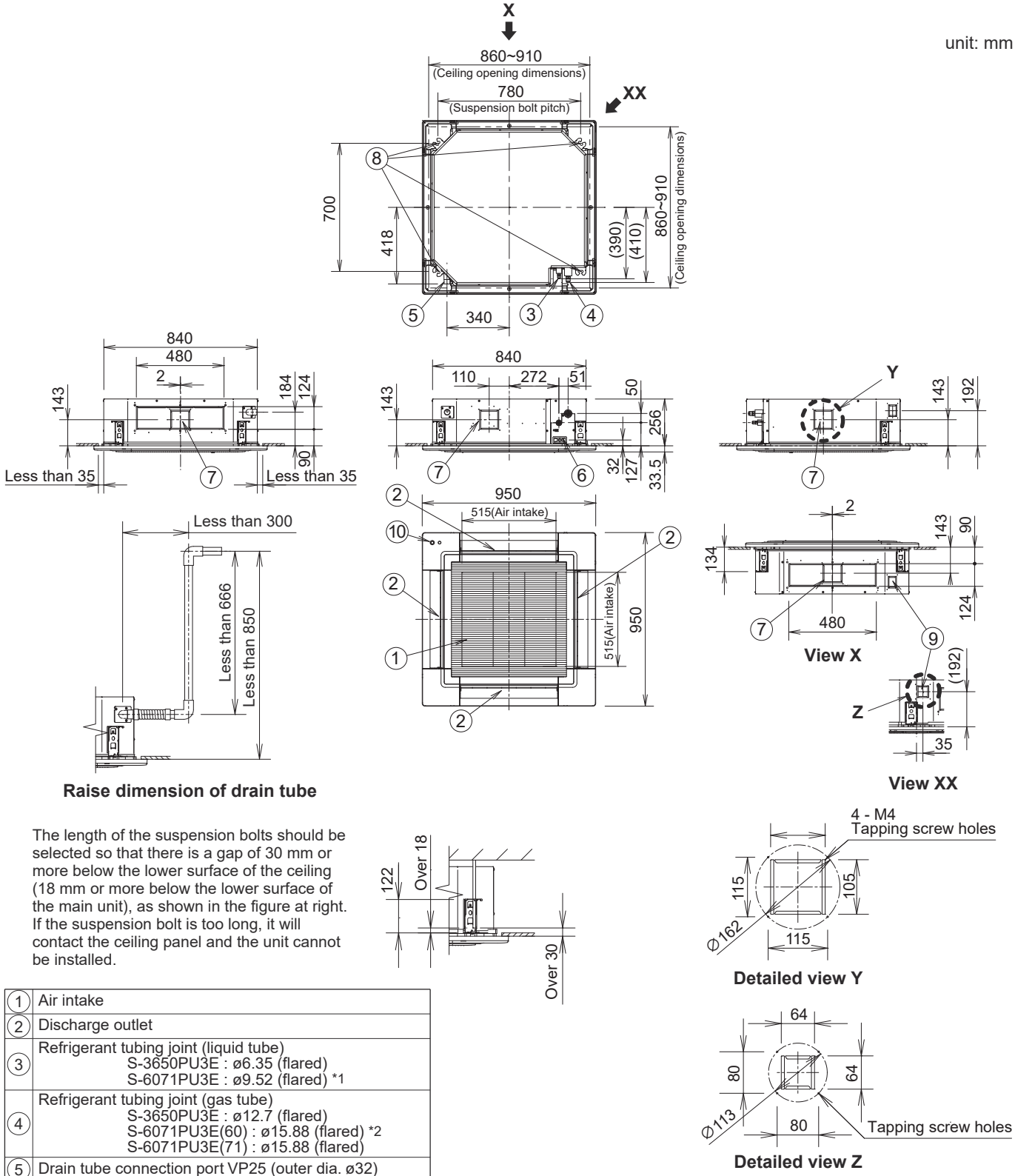
* In the case of nanoe X OFF
*1 In case it is necessary to indicate the air flow volume in (l/s), the value in (m³/min.) shall be multiplied by 16.7 and rounded down the decimal point.
*2 If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C dry bulb and -8°C wet-bulb temperatures with rated voltage 230V shall be used.
*3 Network Impedance shall be applicable for EUROPE and CHINA models.
*4 The annual consumption is calculated by multiplying the input power at 230V(400V) by an average of 500 hours per year in cooling mode.
*5 EER and COP classification is at 230V(400V) only in accordance with EU directive 2002/31/EC.
*6 η_{sc} and η_{sh} classification is at 230V(400V) only in accordance with EN-14825. For heating, η_{sh} indicates the value of only Average heating season.
*7 H : High at setting 5 stage (Level 5), M : Middle at setting 5 stage (Level 3), L : Low at setting 5 stage (Level 1)
*8 It is possible to operate at -20°C only computer rooms with the piping length of 30m or less.

1-2. Dimensional Data

1-2-1. Indoor Unit

1-2-1-1.4-Way Cassette Type S-3650PU3E, S-6071PU3E

unit: mm



The length of the suspension bolts should be selected so that there is a gap of 30 mm or more below the lower surface of the ceiling (18 mm or more below the lower surface of the main unit), as shown in the figure at right. If the suspension bolt is too long, it will contact the ceiling panel and the unit cannot be installed.

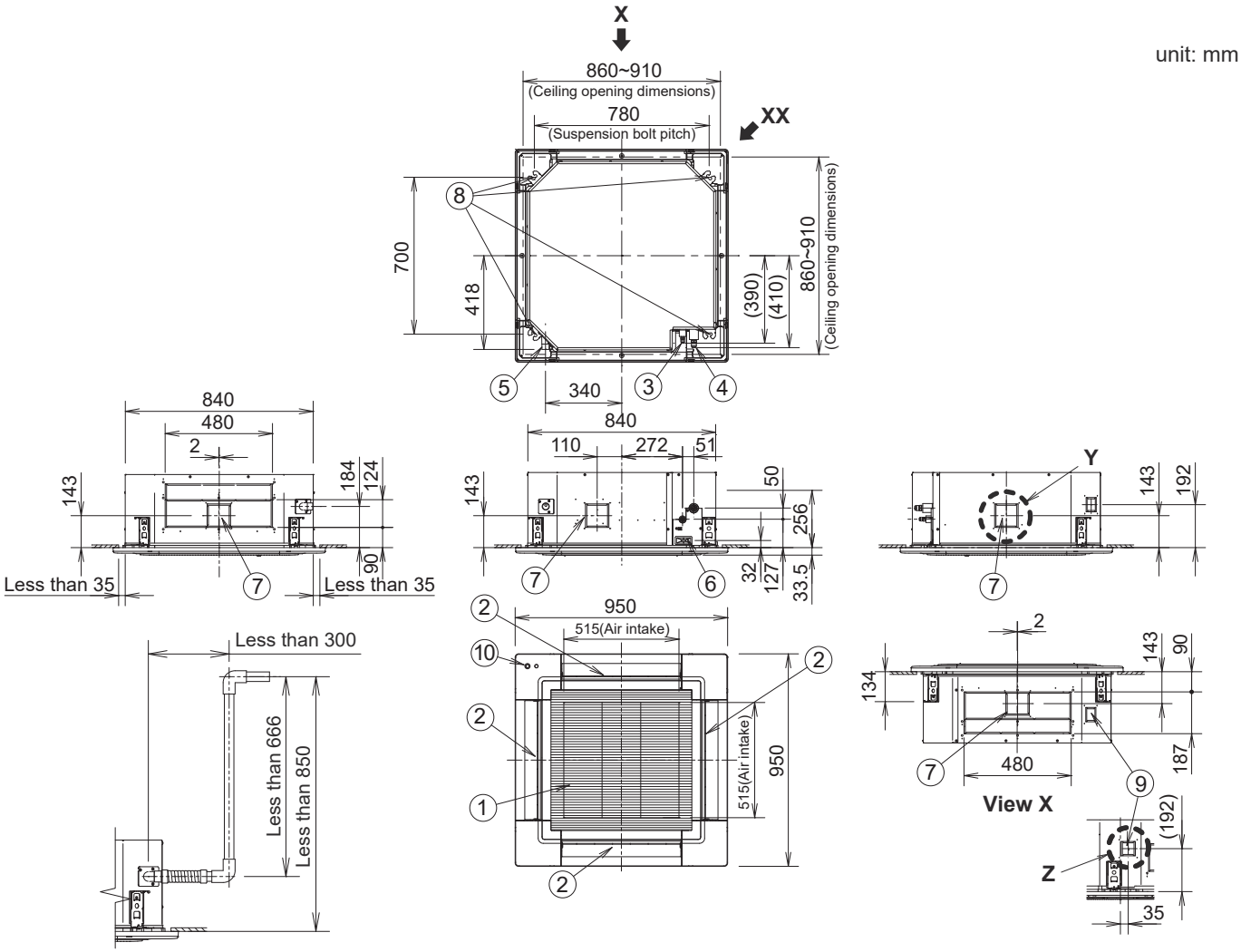
1	Air intake
2	Discharge outlet
3	Refrigerant tubing joint (liquid tube) S-3650PU3E : ø6.35 (flared) S-6071PU3E : ø9.52 (flared) *1
4	Refrigerant tubing joint (gas tube) S-3650PU3E : ø12.7 (flared) S-6071PU3E(60) : ø15.88 (flared) *2 S-6071PU3E(71) : ø15.88 (flared)
5	Drain tube connection port VP25 (outer dia. ø32)
6	Power supply port
7	Discharge duct connection port (ø150)
8	Suspension bolt hole (4-12×30 elongated hole)
9	Fresh air intake duct connection port (ø100) *3
10	ECONAVI sensor (Only CZ-KPU3A or CZ-KPU3AW)

*1 When connecting with U-60PZ3E5A, U-71PZ3E5A or U-60PZH3E5, connect the liquid socket tube (ø9.52-ø6.35) to the liquid tubing side indoor unit.
*2 When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket tube (ø15.88-ø12.7) to the gas tubing side indoor unit.
*3 Necessary to attach duct connecting flange (field supply).

<Filter dimension>
520 × 520 × 15

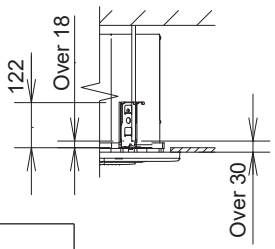
1-2-1-1. 4-Way Cassette Type S-1014PU3E

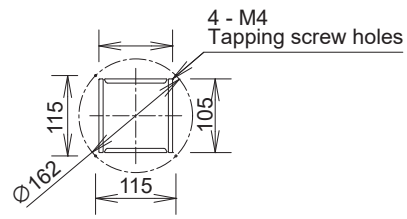
unit: mm



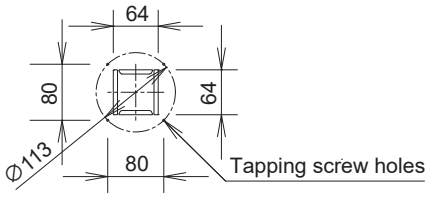
Raise dimension of drain tube

The length of the suspension bolts should be selected so that there is a gap of 30 mm or more below the lower surface of the ceiling (18 mm or more below the lower surface of the main unit), as shown in the figure at right. If the suspension bolt is too long, it will contact the ceiling panel and the unit cannot be installed.





Detailed view Y



Detailed view Z

1	Air intake
2	Discharge outlet
3	Refrigerant tubing (liquid tube) ø9.52 (flared)
4	Refrigerant tubing (gas tube) ø15.88 (flared)
5	Drain tube connection port VP25 (outer dia. ø32)
6	Power supply port
7	Discharge duct connection port (ø150)
8	Suspension bolt hole (4-12×30 elongated hole)
9	Fresh air intake duct connection port (ø100) *
10	ECONAVI sensor (Only CZ-KPU3A or CZ-KPU3AW)

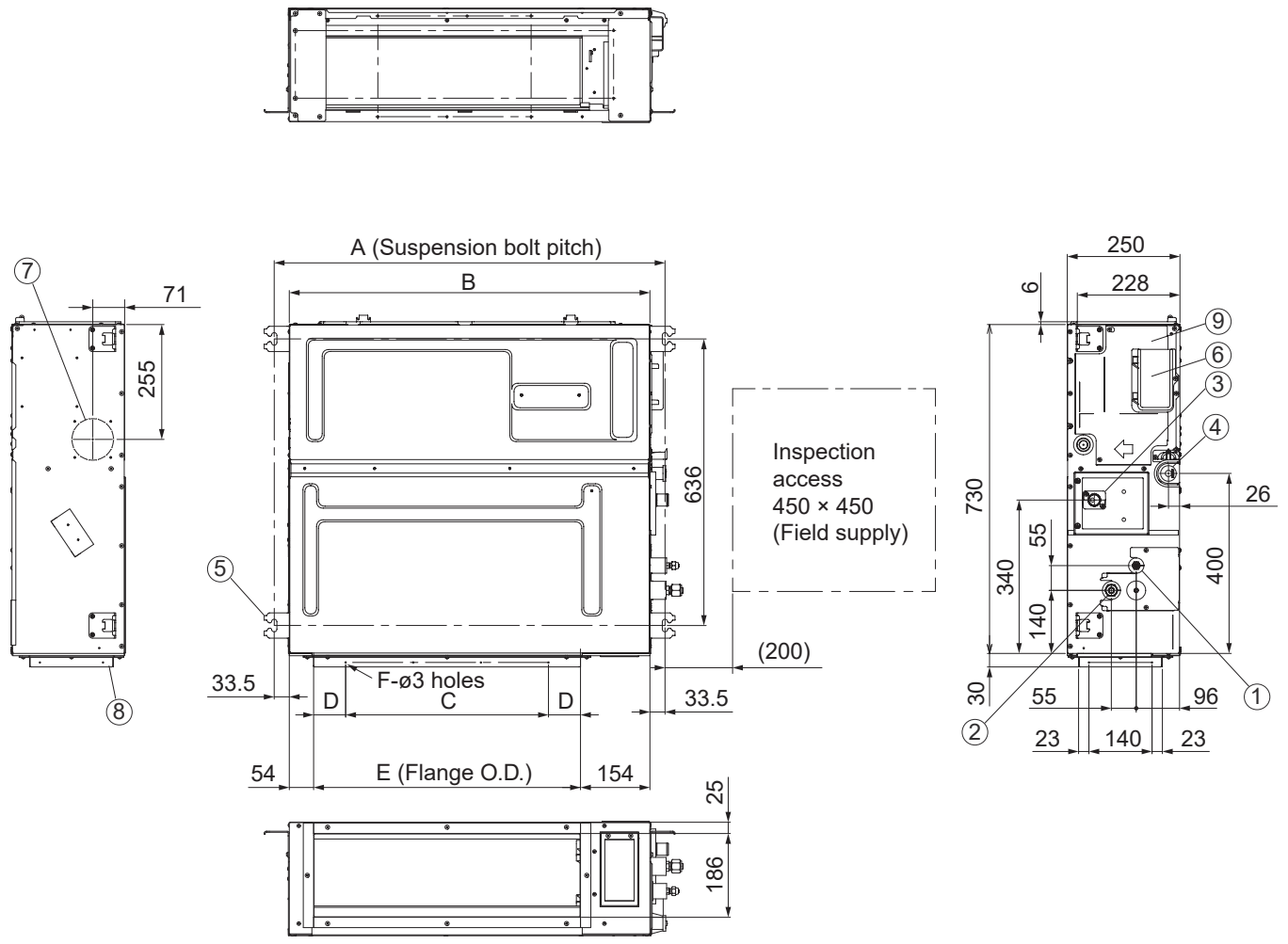
* Necessary to attach duct connecting flange(field supply).

<Filter dimension>
520 × 520 × 15

1-2-1-2. Middle Static Pressure Duct Type S-3650PF3E, S-6071PF3E, S-1014PF3E

Type	A	B	C	D	E	F
	mm	mm	mm	mm	mm	Q'ty
3650	867	800	450 (Pitch 150 × 3)	71	592	12
6071	1,067	1,000	750 (Pitch 150 × 5)	21	792	16
1014	1,467	1,400	1,050 (Pitch 150 × 7)	71	1,192	20

Unit: mm



①	Refrigerant tubing joint (liquid tube) S-3650PF3E : ø6.35 (flared) S-6071PF3E : ø9.52 (flared) *1 S-1014PF3E : ø9.52 (flared)
②	Refrigerant tubing joint (gas tube) S-3650PF3E : ø12.7 (flared) S-6071PF3E(60) : ø15.88 (flared) *2 S-6071PF3E(71) : ø15.88 (flared) S-1014PF3E : ø15.88 (flared)
③	Upper drain port VP20 (ø26 mm) 200 mm flexible hose supplied
④	Bottom drain port VP20 (ø26 mm)
⑤	Suspension lug (4 – 12 × 30 mm)
⑥	Power supply outlet
⑦	Fresh air intake port (ø100 mm) *3
⑧	Flange for flexible air outlet duct
⑨	Electrical component box

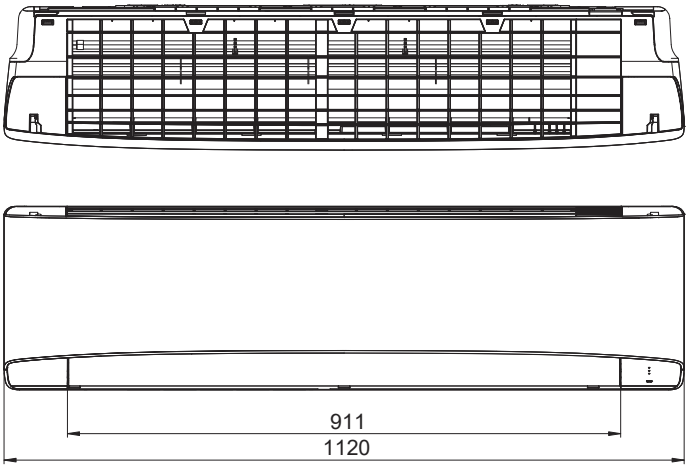
*1 When connecting with U-60PZ3E5A, U-71PZ3E5A or U-60PZH3E5, connect the liquid socket tube (ø9.52-ø6.35) to the liquid tubing side indoor unit.

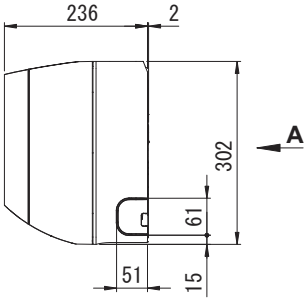
*2 When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket tube (ø15.88-ø12.7) to the gas tubing side indoor unit.

*3 Necessary to attach duct connecting flange (field supply).

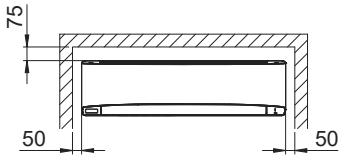
1-2-1-3. Wall Mounted Type S-3650PK3E, S-6010PK3E

unit :mm

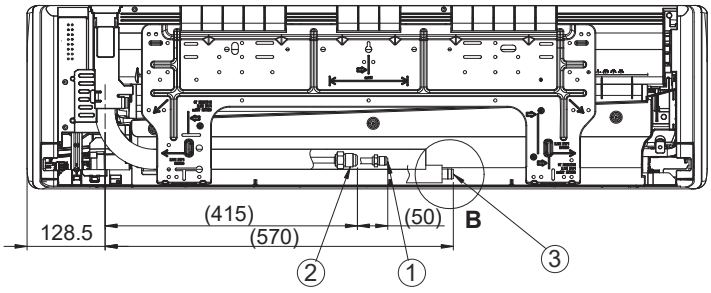




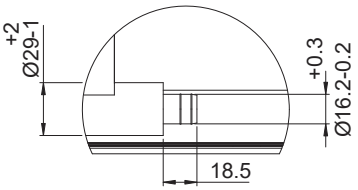
Symmetry



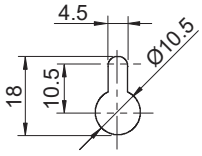
Minimum space requirements for installation



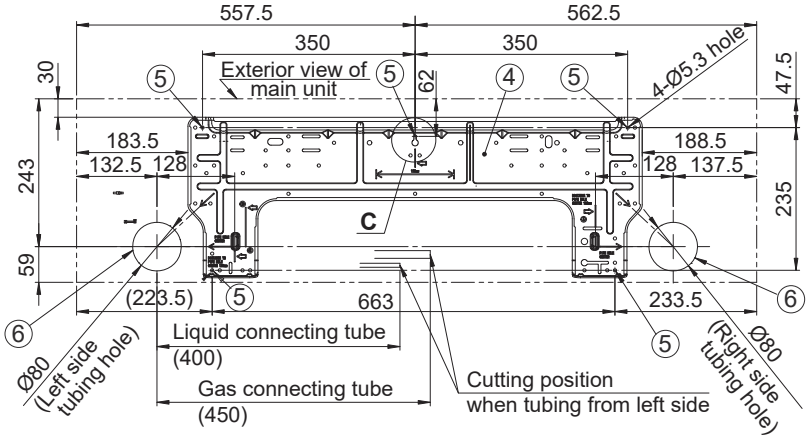
VIEW A



Detailed view B



Detailed view C



1	Refrigerant tubing (liquid tube)	S-3650PK3E : ø6.35 (flared) S-6010PU3E : ø9.52 (flared) *1
2	Refrigerant tubing (gas tube)	S-3650PK3E : ø12.7 (flared) S-6010PK3E(60) : ø15.88 (flared) *2 S-6010PK3E(71) : ø15.88 (flared) S-6010PK3E(100) : ø15.88 (flared)
3	Drain hose	
4	Rear panel	
5	Rear panel fixing holes (Ø5.3 holes or as shown in figure “C”)	
6	Tubing and wiring holes (Ø80)	

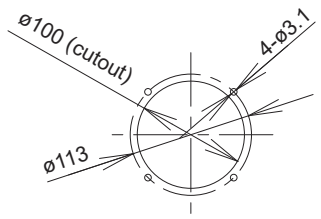
*1 When connecting with U-60PZ3E5A, U-71PZ3E5A or U-60PZH3E5, connect the liquid socket tube (ø9.52-ø6.35) to the liquid tubing side indoor unit.

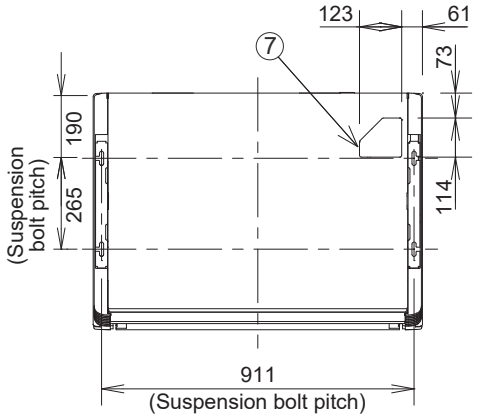
*2 When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket tube (ø15.88-ø12.7) to the gas tubing side indoor unit.

1-2-1-4. Ceiling Type S-3650PT3E

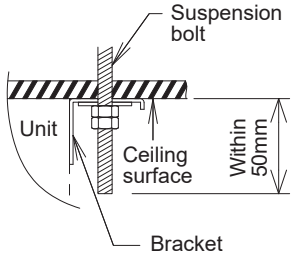
unit :mm

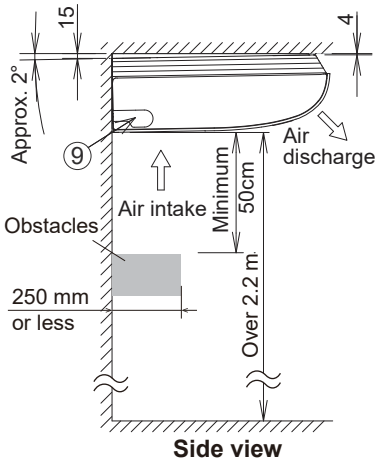
Detailed view of intaking outside air duct connection port



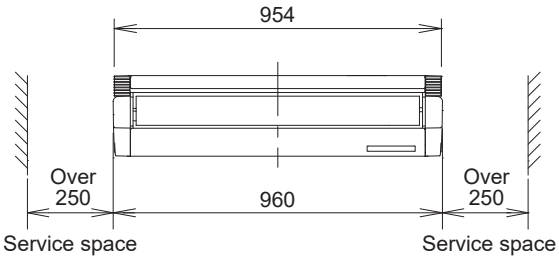


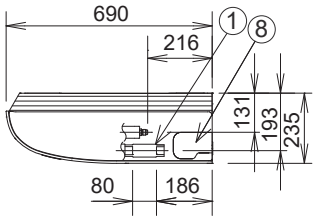
Distance of each exposed bolt must be of equal length within 50mm.

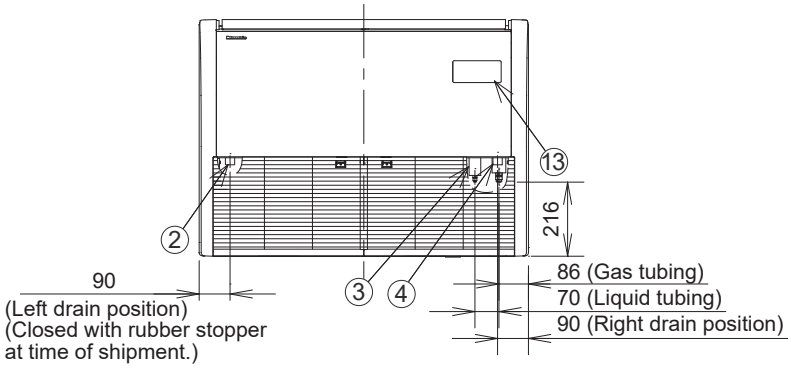




Side view





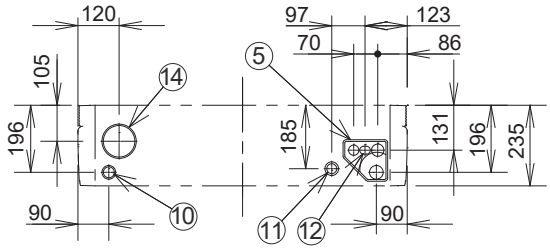


①	Drain port VP20 (inside diameter ø26mm, drain hose supplied)
②	Left drain position
③	Refrigerant liquid tubing (ø6.35mm, flare connection)
④	Refrigerant gas tubing (ø12.7mm, flare connection)
⑤	Cover of rear tubing hole
⑥	Tubing hole on wall surface (ø100mm)
⑦	Upper side tubing port
⑧	Right side drain hose outlet port (cutout)
⑨	Left side drain hose outlet port (cutout)
⑩	Left-rear side drain hose outlet port (cutout)
⑪	Power inlet port
⑫	Remote control wiring and inter-unit wiring inlet port
⑬	Wireless remote controller receiver installation location
⑭	Outside air intake duct connection port (ø100mm, cutout)*

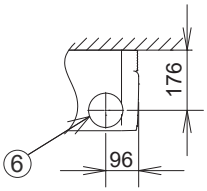
* Necessary to attach duct connecting flange (field supply).

<Filter dimension>
(421 × 250 × 16) × 2 pcs.

Hole position of indoor unit rear-side (Figure shows view from front)



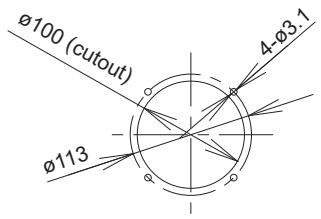
Tubing hole position on wall surface (Figure shows view from front)

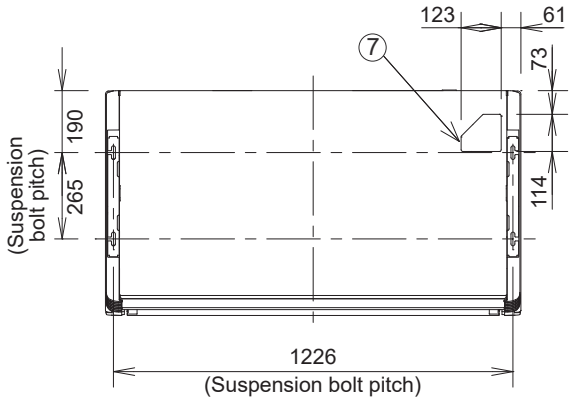


1-2-1-4. Ceiling Type S-6071PT3E

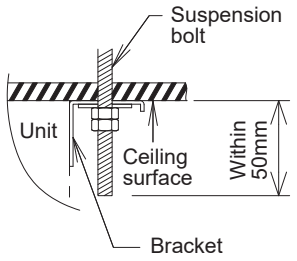
unit :mm

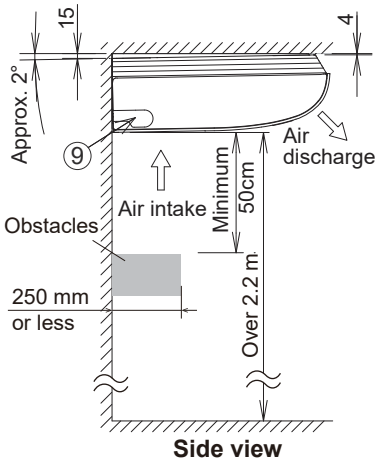
Detailed view of intaking outside air duct connection port



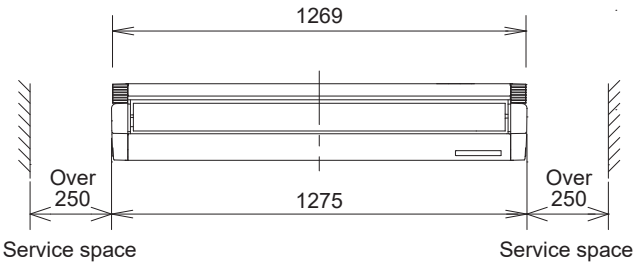


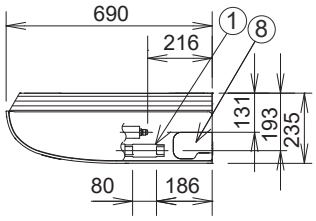
Distance of each exposed bolt must be of equal length within 50mm.

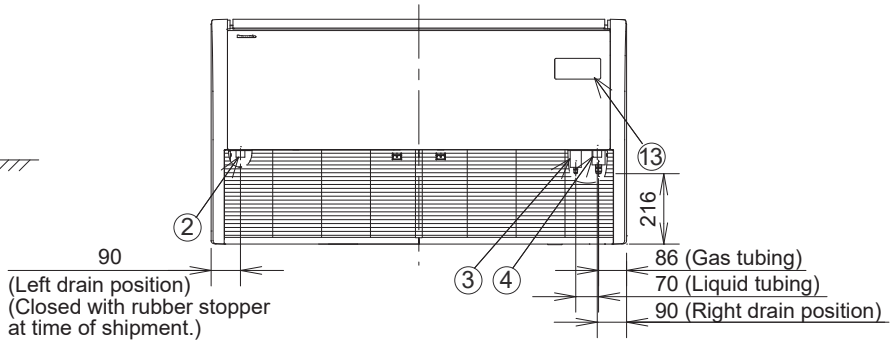




Side view







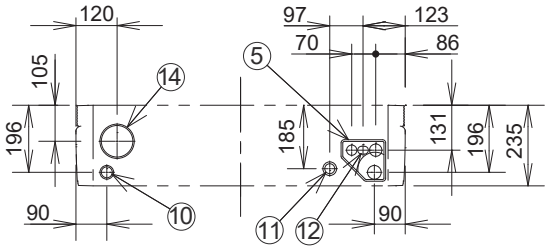
①	Drain port VP20 (inside diameter ø26mm, drain hose supplied)
②	Left drain position
③	Refrigerant liquid tubing (ø9.52mm, flare connection) *1
④	Refrigerant gas tubing (ø15.88mm, flare connection) *2
⑤	Cover of rear tubing hole
⑥	Tubing hole on wall surface (ø100mm)
⑦	Upper side tubing port
⑧	Right side drain hose outlet port (cutout)
⑨	Left side drain hose outlet port (cutout)
⑩	Left-rear side drain hose outlet port (cutout)
⑪	Power inlet port
⑫	Remote control wiring and inter-unit wiring inlet port
⑬	Wireless remote controller receiver installation location
⑭	Outside air intake duct connection port (ø100mm, cutout) *3

*1 When connecting with U-60PZ3E5A, U-71PZ3E5A or U-60PZH3E5, connect the liquid socket tube (ø9.52-ø6.35) to the liquid tubing side indoor unit.

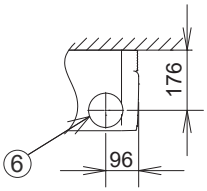
*2 When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket tube (ø15.88-ø12.7) to the gas tubing side indoor unit.

*3 Necessary to attach duct connecting flange (field supply).

Hole position of indoor unit rear-side (Figure shows view from front)



Tubing hole position on wall surface (Figure shows view from front)

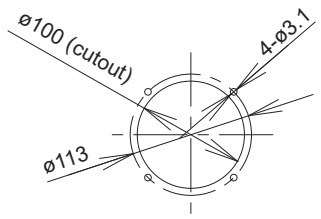


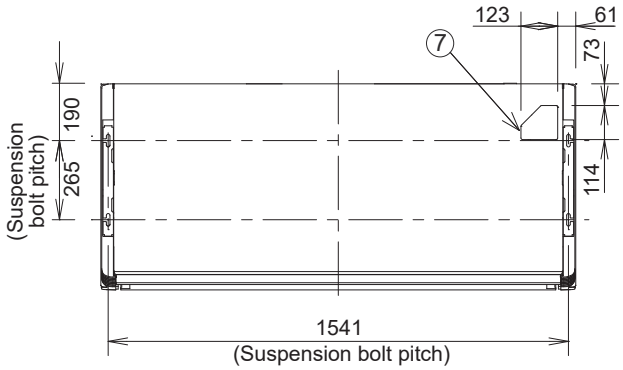
<Filter dimension>
(579 × 250 × 16) × 2 pcs.

1-2-1-4. Ceiling Type S-1014PT3E

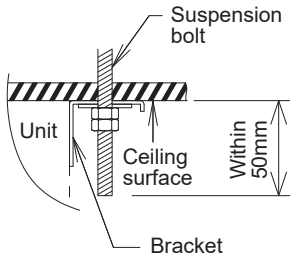
unit :mm

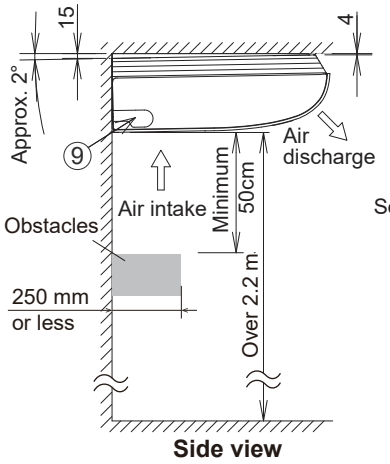
Detailed view of intaking outside air duct connection port



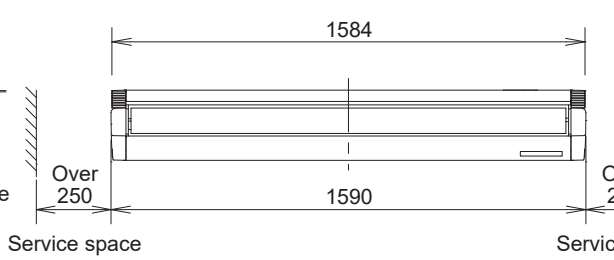


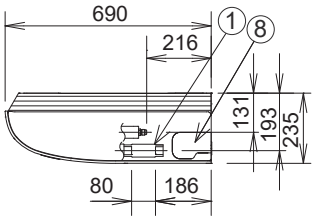
Distance of each exposed bolt must be of equal length within 50mm.

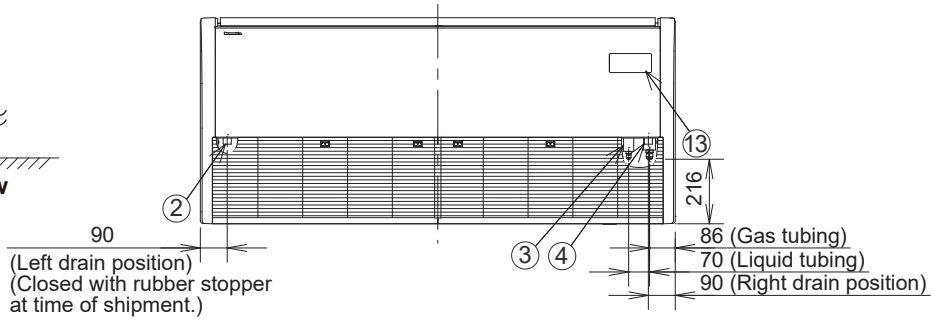




Side view





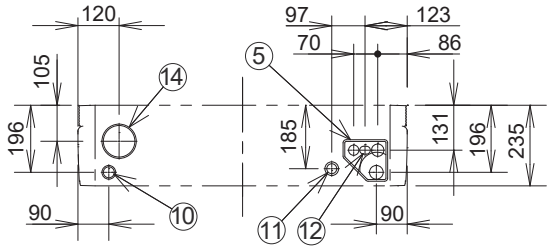


①	Drain port VP20 (inside diameter ø26mm, drain hose supplied)
②	Left drain position
③	Refrigerant liquid tubing (ø9.52mm, flare connection)
④	Refrigerant gas tubing (ø15.88mm, flare connection)
⑤	Cover of rear tubing hole
⑥	Tubing hole on wall surface (ø100mm)
⑦	Upper side tubing port
⑧	Right side drain hose outlet port (cutout)
⑨	Left side drain hose outlet port (cutout)
⑩	Left-rear side drain hose outlet port (cutout)
⑪	Power inlet port
⑫	Remote control wiring and inter-unit wiring inlet port
⑬	Wireless remote controller receiver installation location
⑭	Outside air intake duct connection port (ø100mm, cutout)*

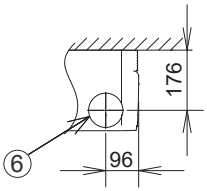
* Necessary to attach duct connecting flange (field supply).

<Filter dimension>
(736 × 250 × 16 × 2 pcs.)

Hole position of indoor unit rear-side (Figure shows view from front)

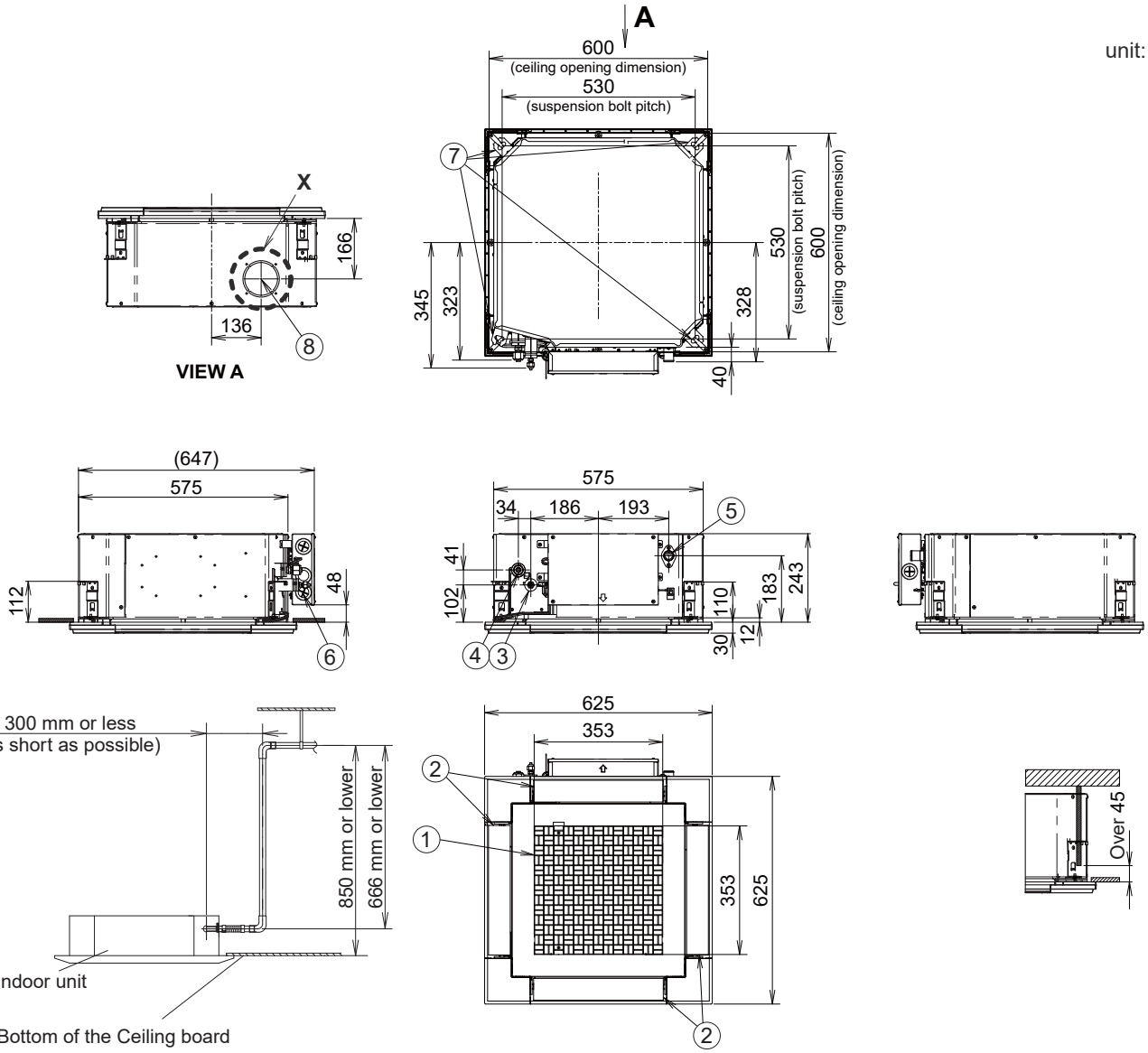


Tubing hole position on wall surface (Figure shows view from front)



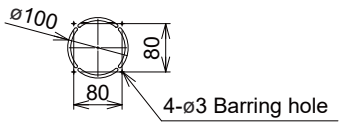
1-2-1-5. 4-Way Cassette 60 × 60 Type S-25PY3E, S-36PY3E, S-50PY3E, S-60PY3E

unit: mm



* Length of supplied drain pipe = 250 mm

①	Air intake grille
②	Air outlet
③	Refrigerant piping (liquid pipe) 25,36,50:ø6.35 (flared) 60:ø9.52 (flared) *1
④	Refrigerant piping (gas pipe) 25,36,50:ø12.7 (flared) 60:ø15.88 (flared) *2
⑤	Drain tube connection port VP20
⑥	Power supply entry
⑦	Suspension bolt hole (4-11 × 26 slot)
⑧	Fresh air intake duct connection port (ø100) *3



Detailed view X

*1 When connecting with U-60PZ3E5A or U-60PZH3E5, connect the liquid socket tube (ø9.52-ø6.35) to the liquid tubing side indoor unit.
*2 When connecting with U-60PZ3E5A or U-60PZH3E5, connect the gas socket tube (ø15.88-ø12.7) to the gas tubing side indoor unit.
*3 Necessary to attach duct connecting flange (field supply).

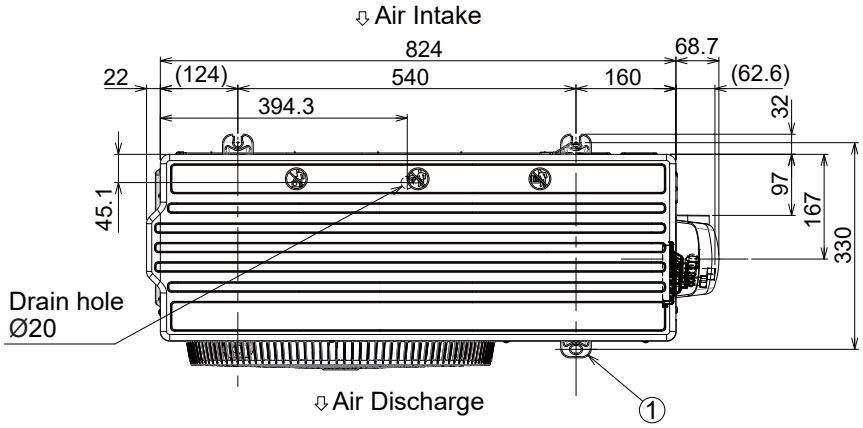
<Filter dimension>
362 × 362 × 15

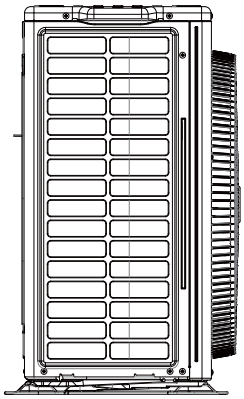
1-2-2. Outdoor Unit

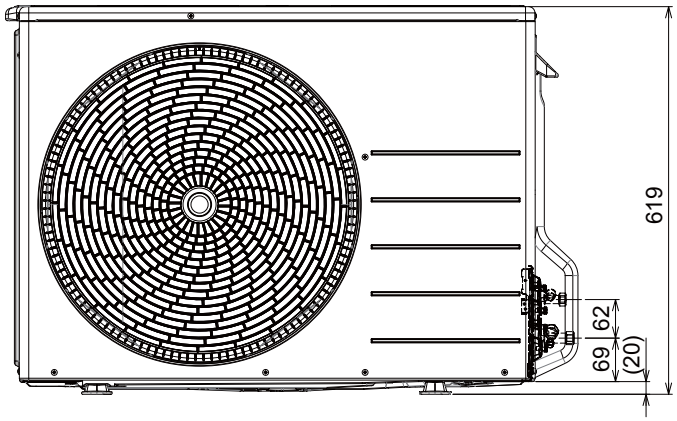
1-2-2-1. PZ3 U-25PZ3E5, U-36PZ3E5, U-50PZ3E5

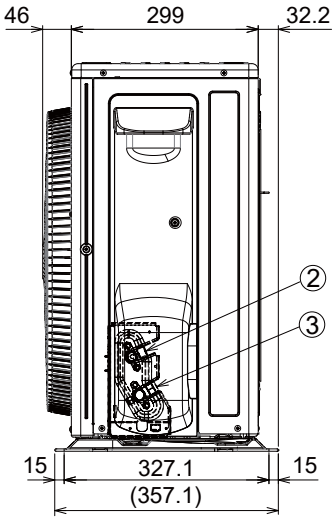
Unit: mm

①	Mounting hole (4-R6.5), anchor bolt : M10
②	Refrigerant tubing (liquid tube), flared connection (Ø6.35)
③	Refrigerant tubing (gas tube), flared connection (Ø12.7)





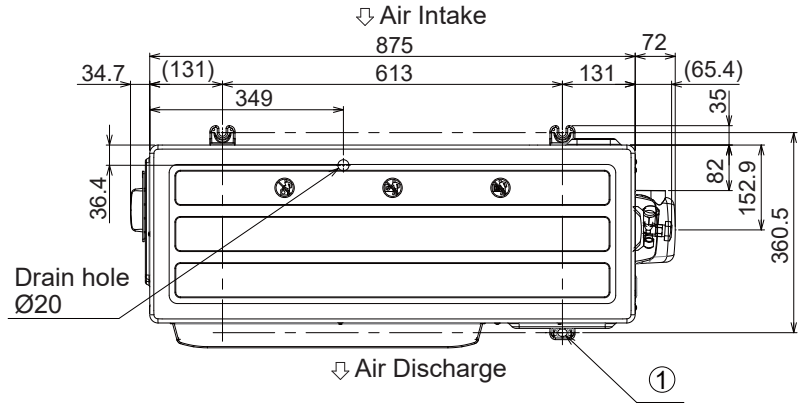


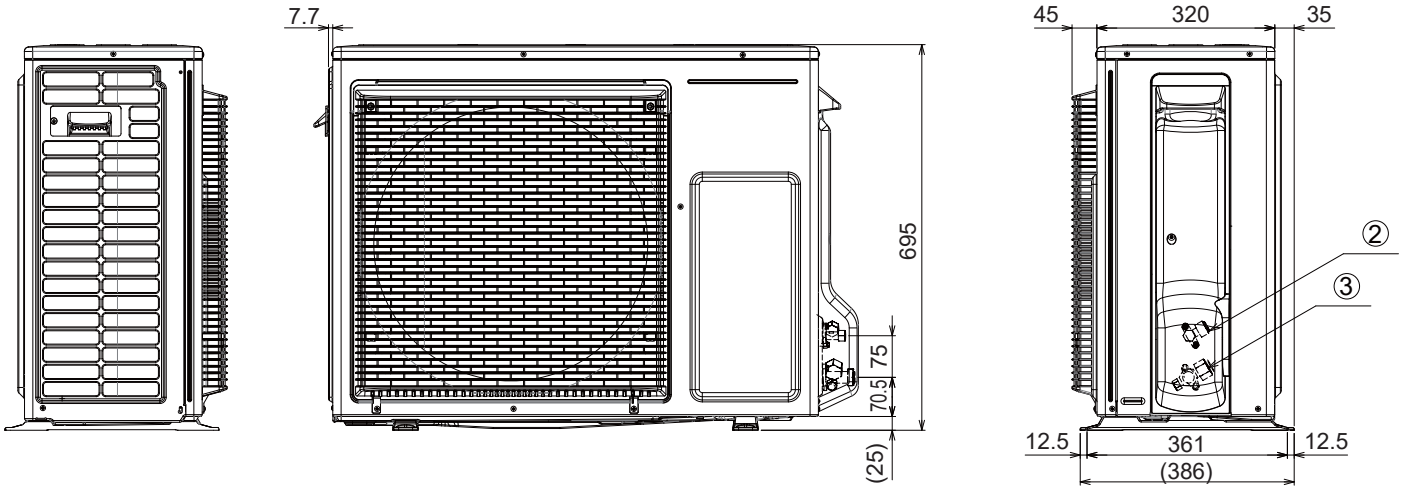


1-2-2-1. PZ3 U-60PZ3E5A, U-71PZ3E5A

Unit: mm

①	Mounting hole (4-R6.5), anchor bolt : M10
②	Refrigerant tubing (liquid tube), flared connection (Ø 6.35)
③	Refrigerant tubing (gas tube), flared connection U-60PZ3E5A (Ø12.7) U-71PZ3E5A (Ø15.88)

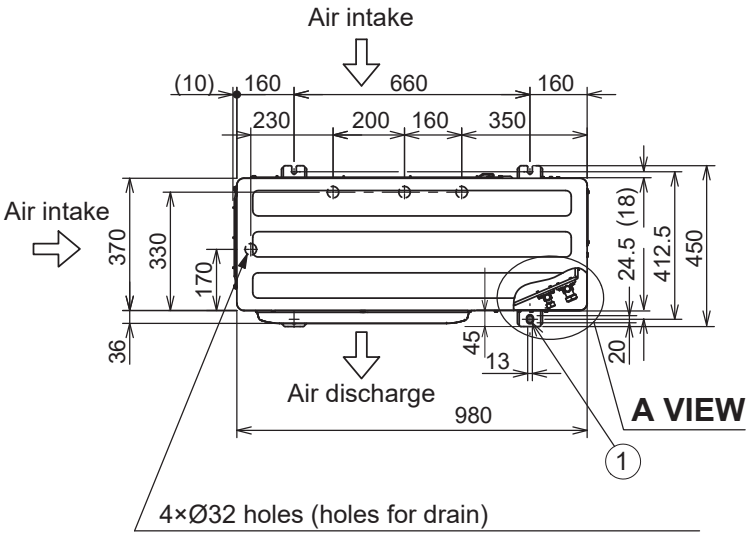




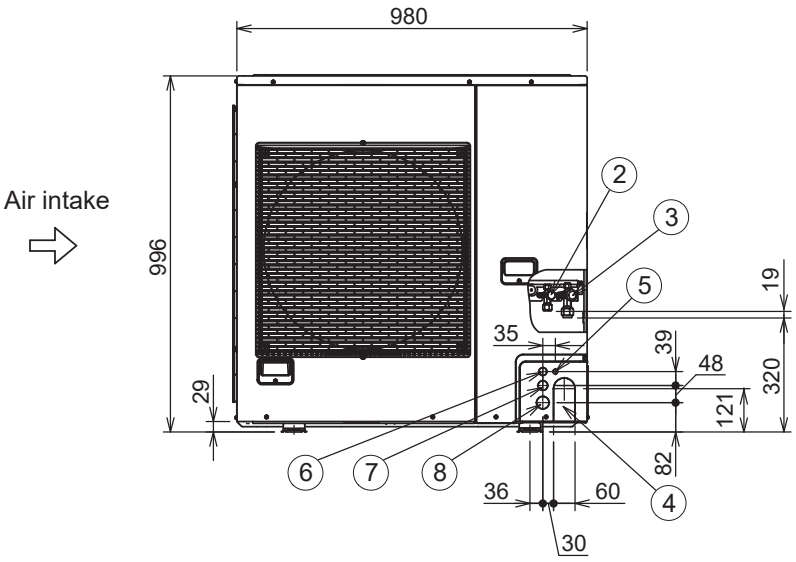
1-2-2-1. PZ3 U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

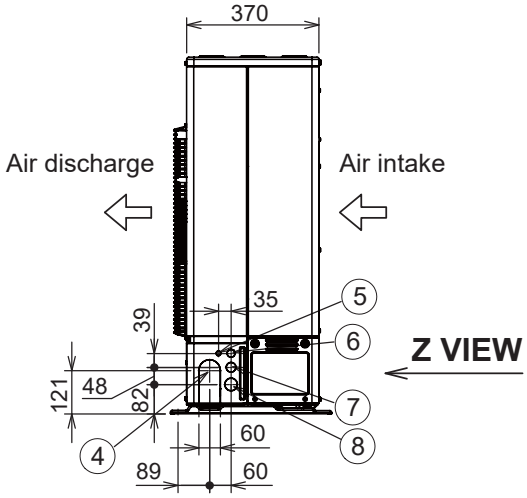
Unit: mm

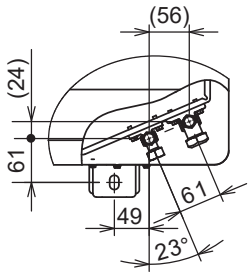
1	Mounting hole (4-R6.5), anchor bolt : M10
2	Refrigerant tubing (liquid tube), flared connection (Ø9.52)
3	Refrigerant tubing (gas tube), flared connection (Ø15.88)
4	Refrigerant tubing port
5	Electrical wiring port (Ø13)
6	Electrical wiring port (Ø22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)



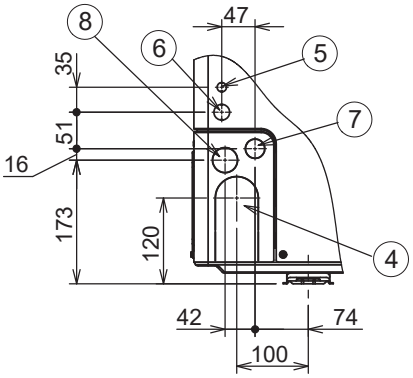
When using a drain pipe, install the drain socket (field supply) on to the drain hole. Seal the other drain hole with the rubber cap.







A VIEW

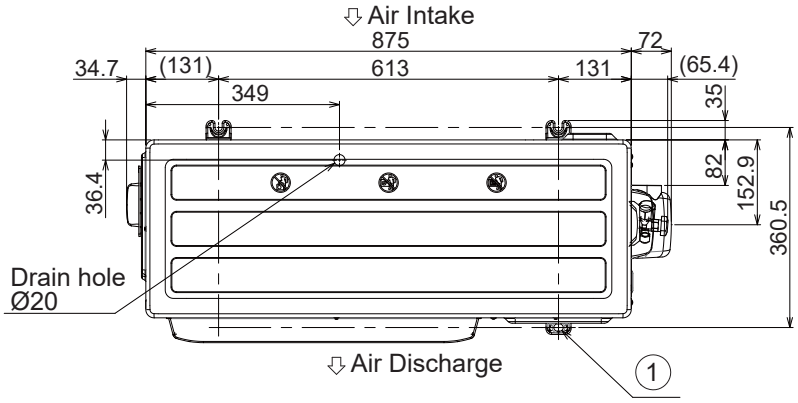


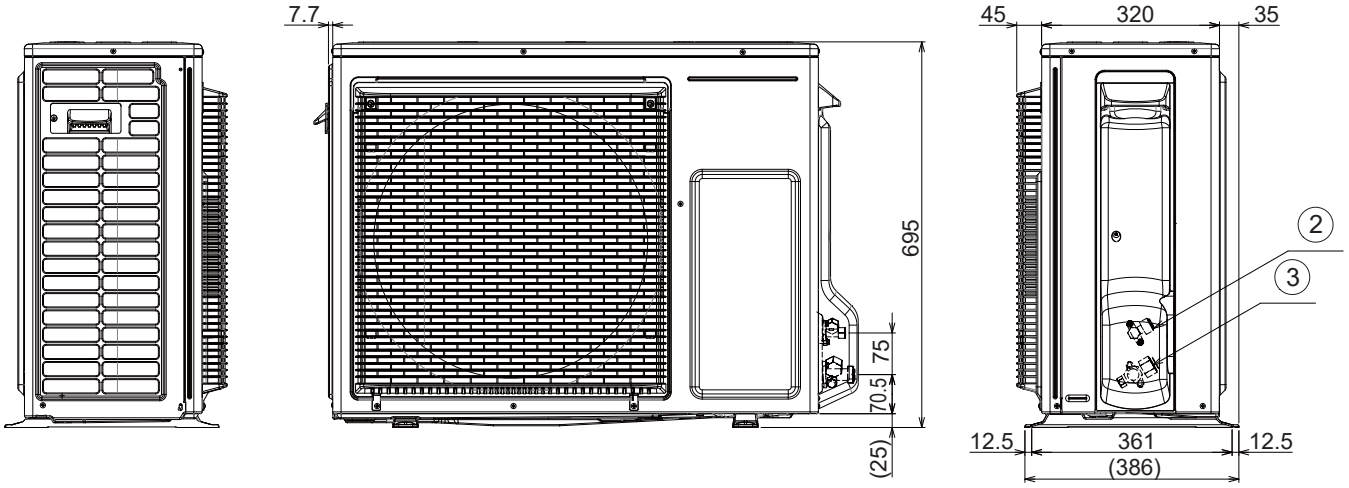
Z VIEW

1-2-2-2. PZH3 U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

Unit: mm

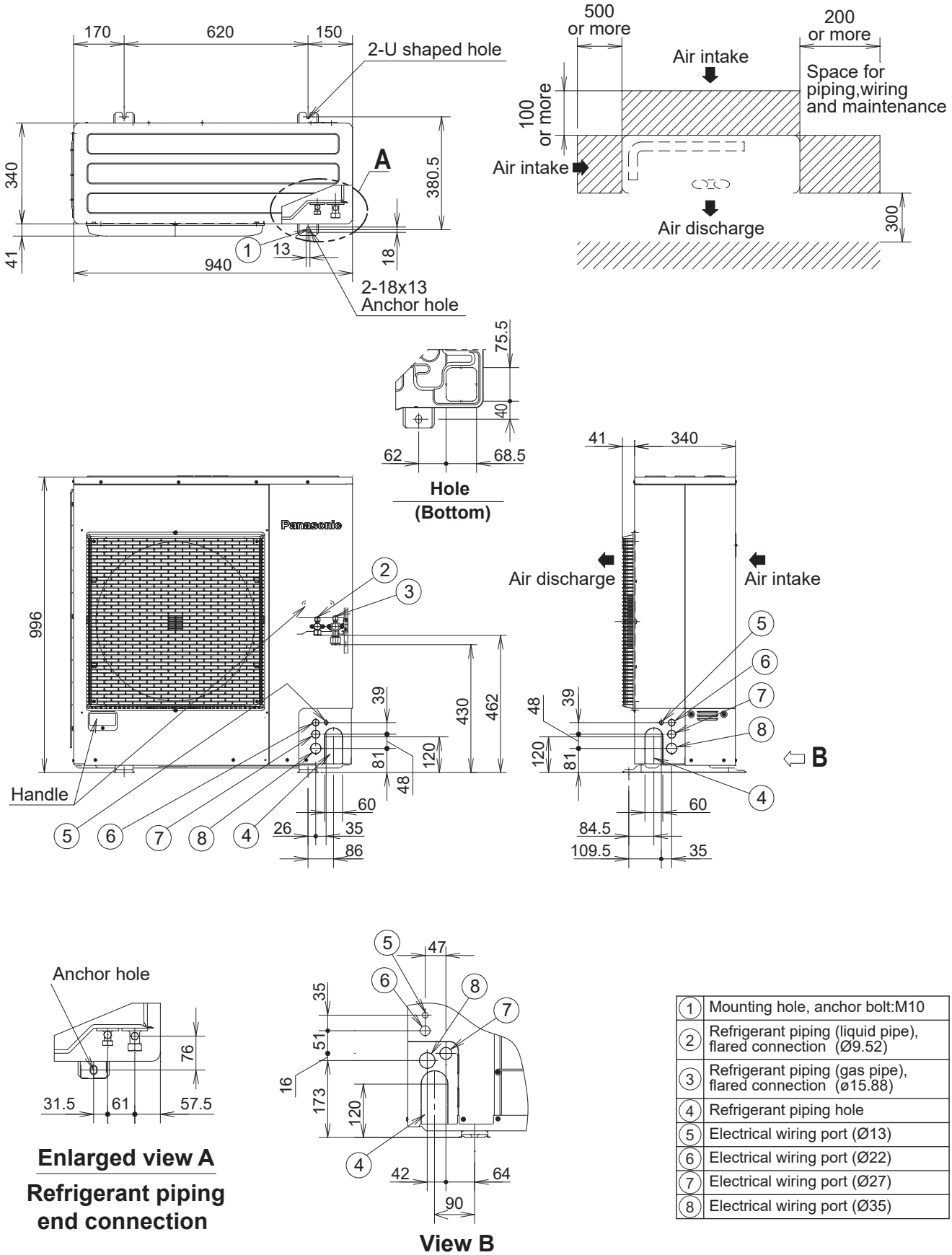
①	Mounting hole (4-R6.5), anchor bolt : M10
②	Refrigerant tubing (liquid tube), flared connection (Ø6.35)
③	Refrigerant tubing (gas tube), flared connection (Ø12.7)





1-2-2-2. PZH3 U-71PZH3E5
U-71PZH3E8

Unit: mm



Enlarged view A

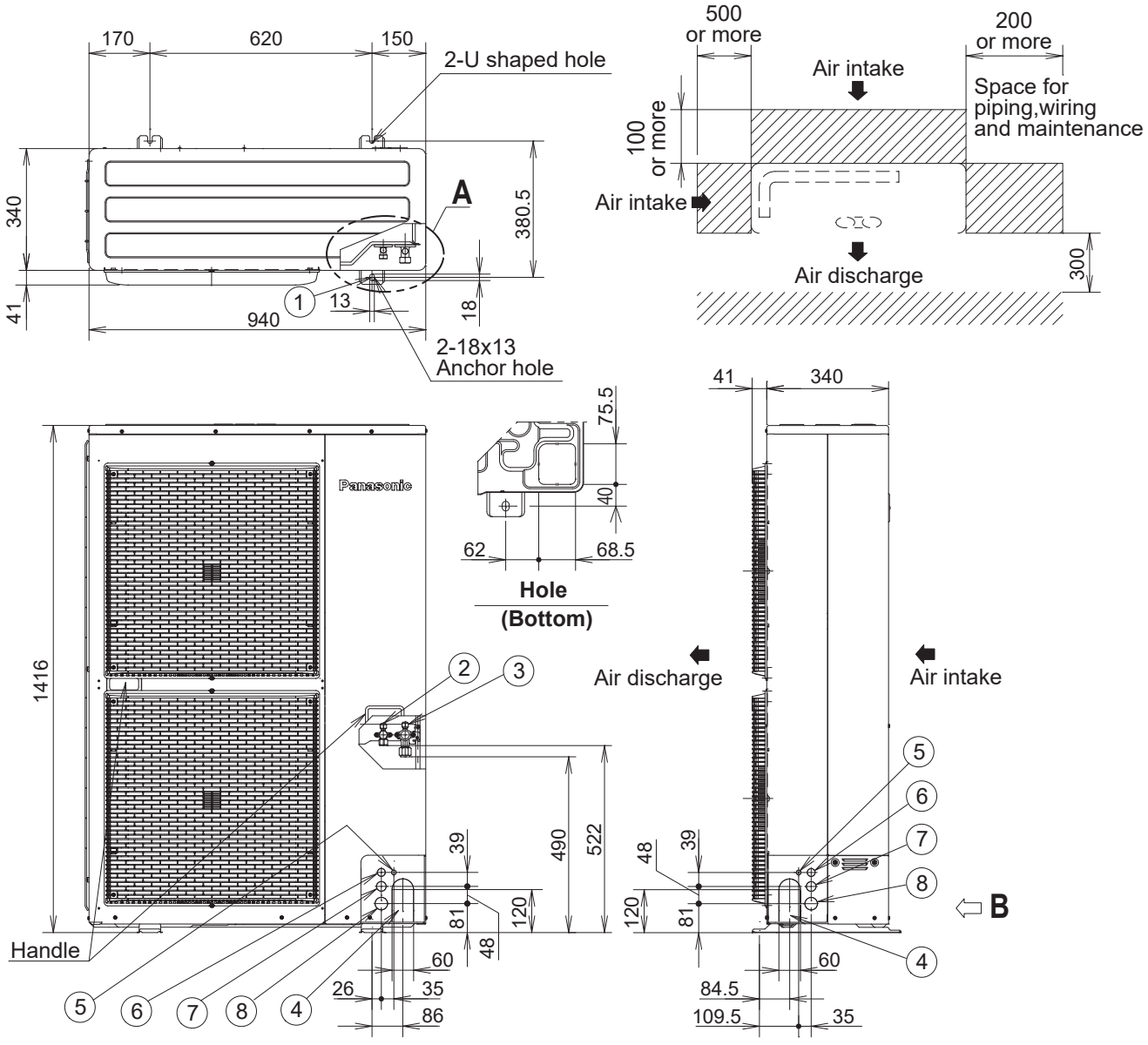
Refrigerant piping end connection

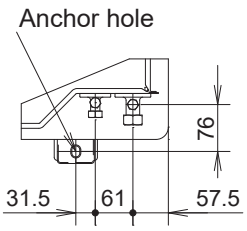
View B

1	Mounting hole, anchor bolt:M10
2	Refrigerant piping (liquid pipe), flared connection (Ø9.52)
3	Refrigerant piping (gas pipe), flared connection (ø15.88)
4	Refrigerant piping hole
5	Electrical wiring port (Ø13)
6	Electrical wiring port (Ø22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)

1-2-2-2. PZH3 U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

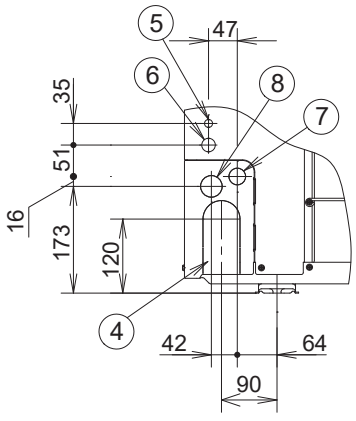
Unit: mm





Enlarged view A

Refrigerant piping end connection



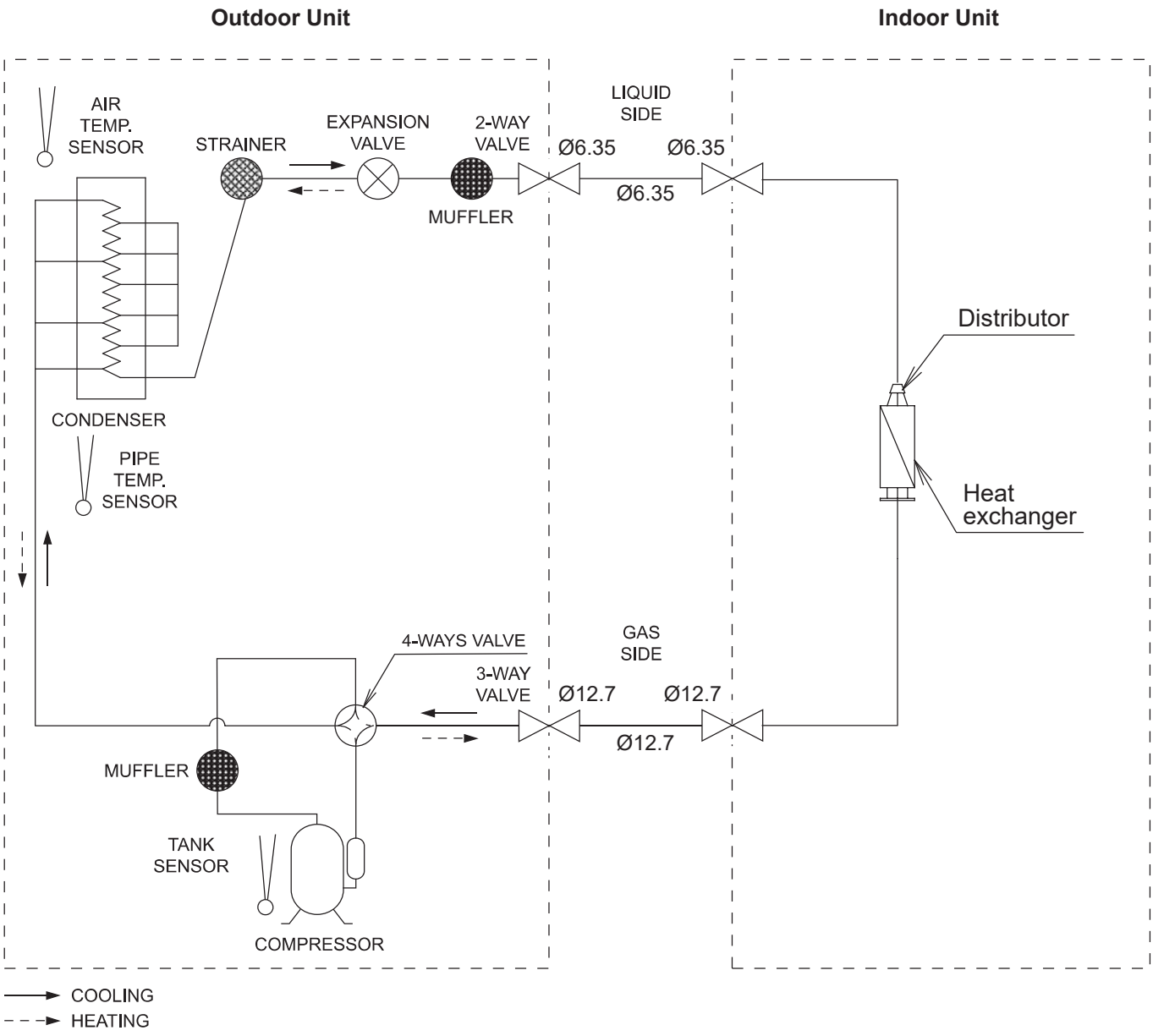
View B

1	Mounting hole, anchor bolt:M10
2	Refrigerant piping (liquid pipe), flared connection (Ø9.52)
3	Refrigerant piping (gas pipe), flared connection (ø15.88)
4	Refrigerant piping hole
5	Electrical wiring port (Ø13)
6	Electrical wiring port (Ø22)
7	Electrical wiring port (Ø27)
8	Electrical wiring port (Ø35)

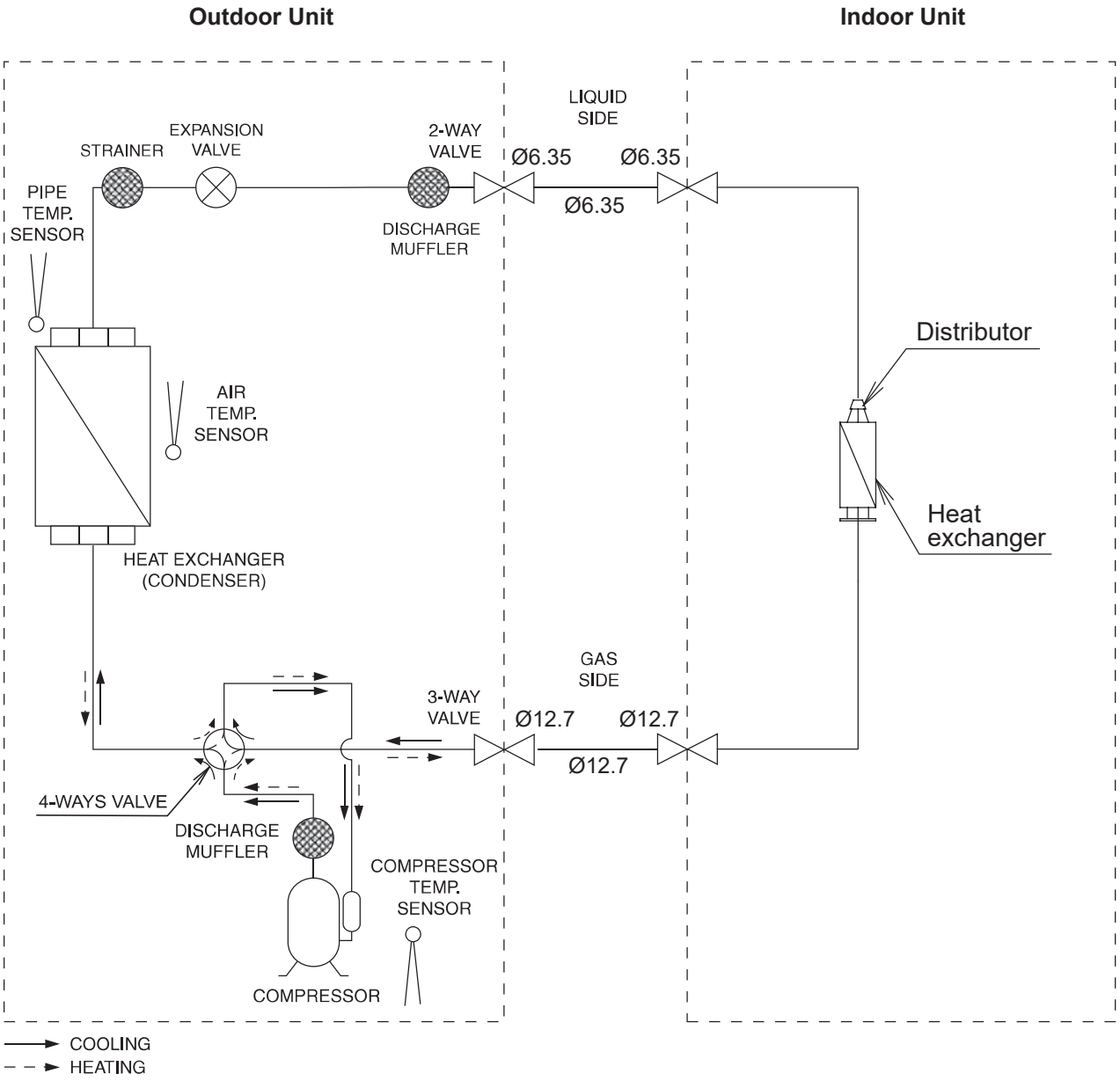
1-3. Refrigerant Flow Diagram

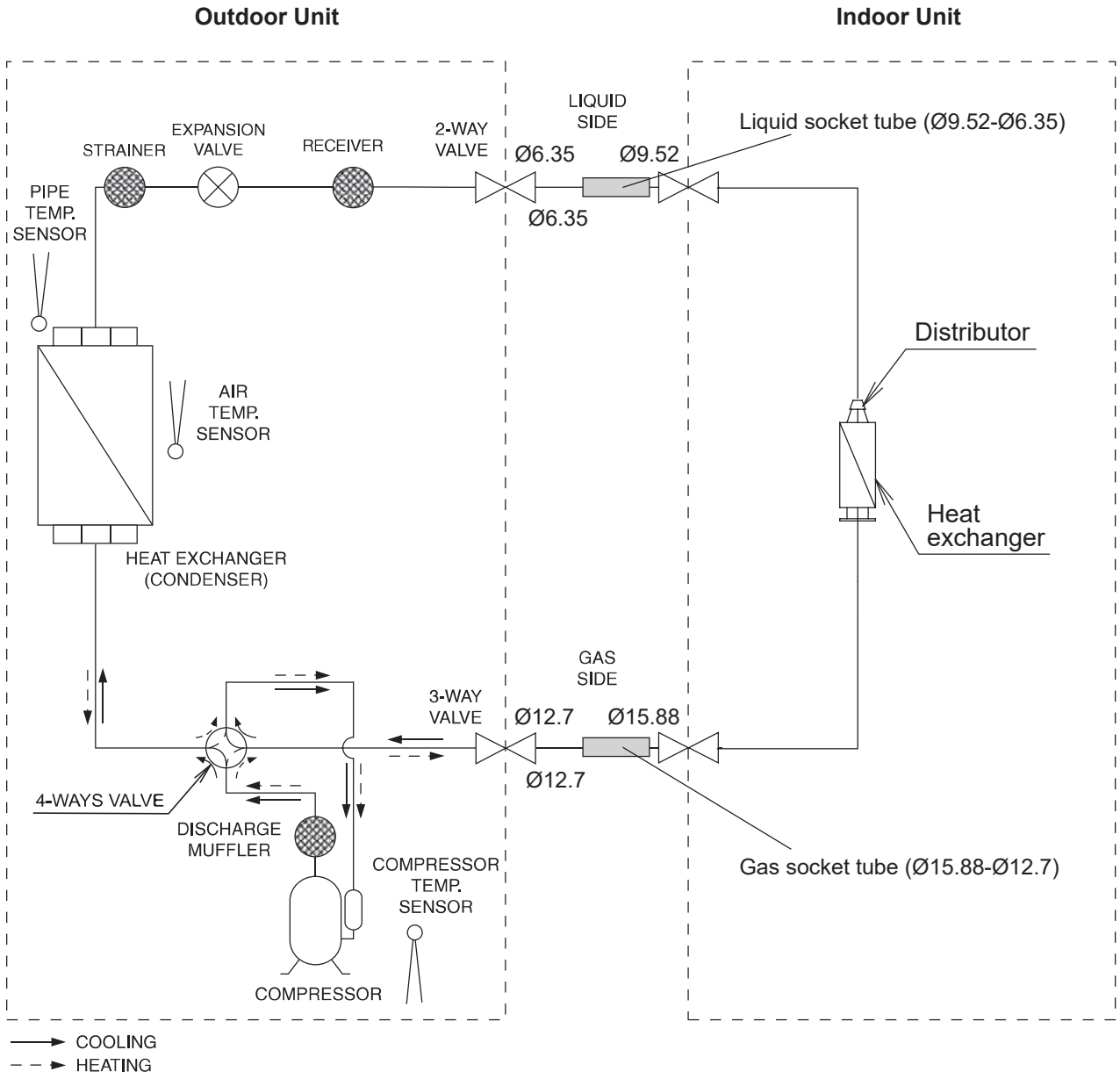
1-3-1. PZ3

U-25PZ3E5, U-36PZ3E5

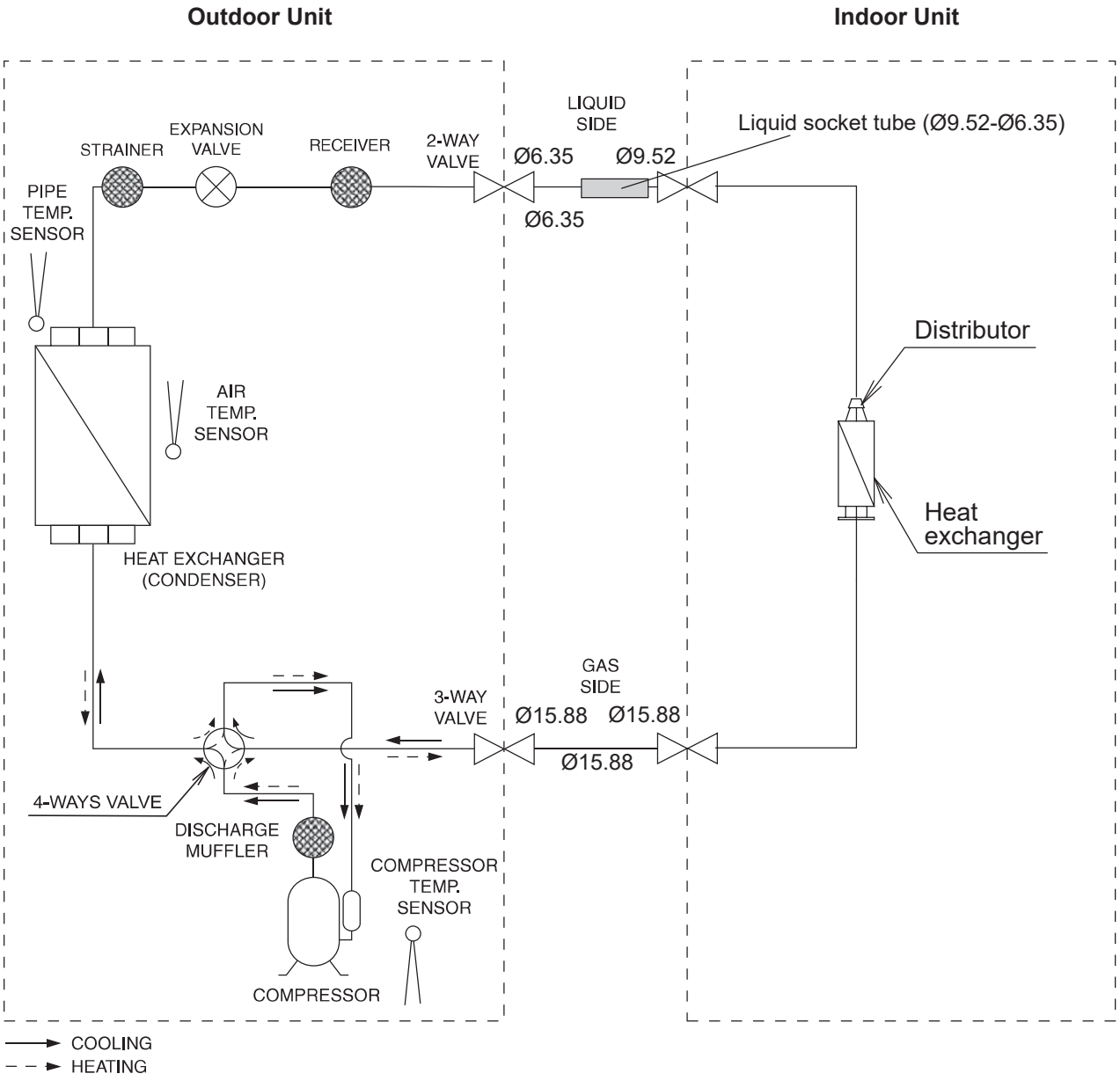


U-50PZ3E5

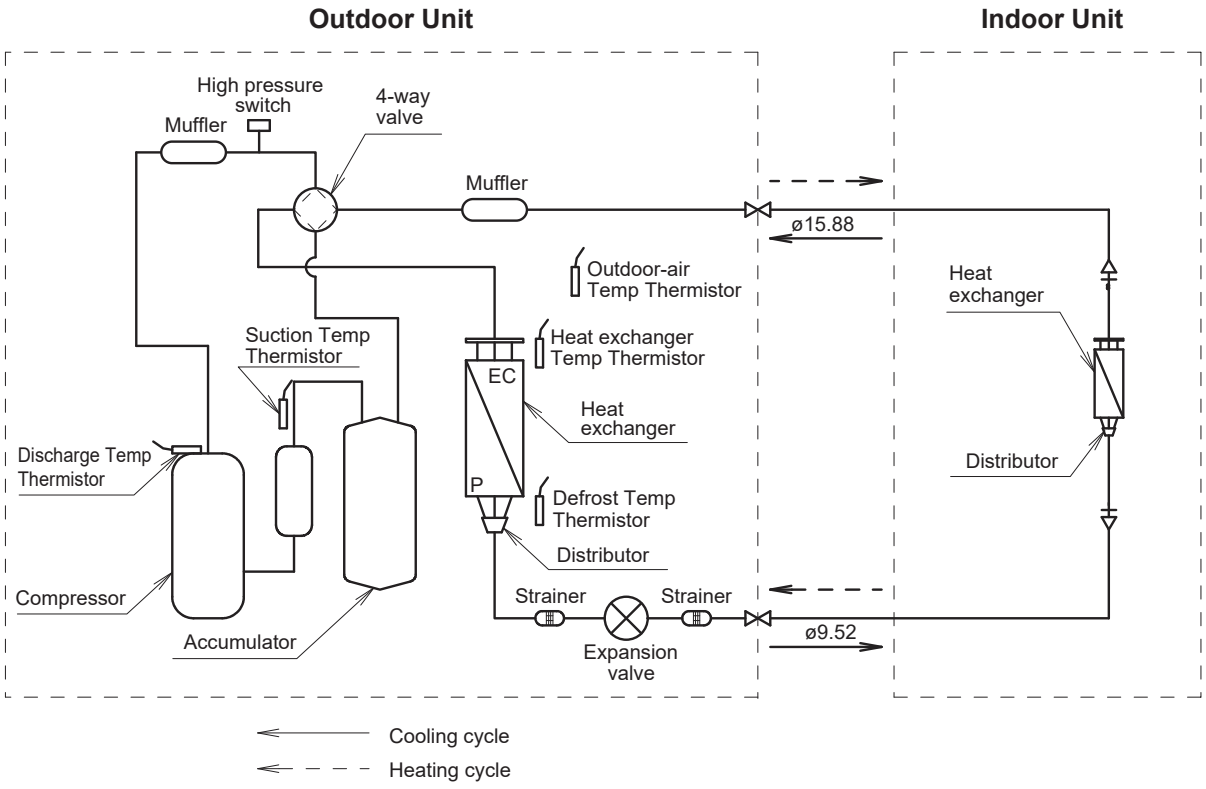

Outdoor Unit
Indoor Unit
LIQUID SIDE
EXPANSION VALVE
STRAINER
2-WAY VALVE
Ø6.35
Ø6.35
Ø6.35
PIPE TEMP. SENSOR
DISCHARGE MUFFLER
Distributor
AIR TEMP. SENSOR
Heat exchanger
HEAT EXCHANGER (CONDENSER)
GAS SIDE
3-WAY VALVE
Ø12.7
Ø12.7
Ø12.7
4-WAYS VALVE
DISCHARGE MUFFLER
COMPRESSOR TEMP. SENSOR
COMPRESSOR
COOLING
HEATING

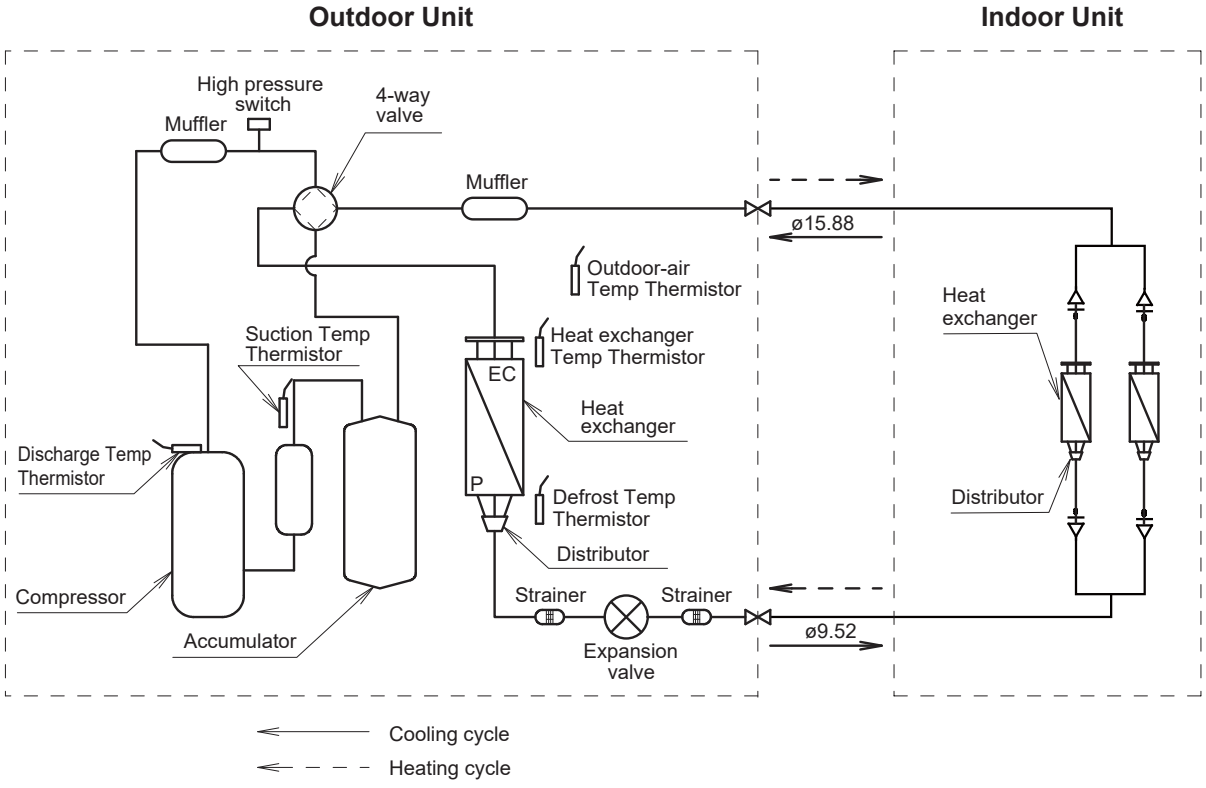

Outdoor Unit
Indoor Unit
STRAINER
EXPANSION VALVE
RECEIVER
2-WAY VALVE
LIQUID SIDE
Ø6.35
Ø9.52
Ø6.35
Liquid socket tube (Ø9.52-Ø6.35)
PIPE TEMP. SENSOR
Distributor
AIR TEMP. SENSOR
Heat exchanger
HEAT EXCHANGER (CONDENSER)
GAS SIDE
3-WAY VALVE
Ø12.7
Ø15.88
Ø12.7
4-WAYS VALVE
DISCHARGE MUFFLER
COMPRESSOR TEMP. SENSOR
Gas socket tube (Ø15.88-Ø12.7)
COMPRESSOR
COOLING
HEATING

U-71PZ3E5A

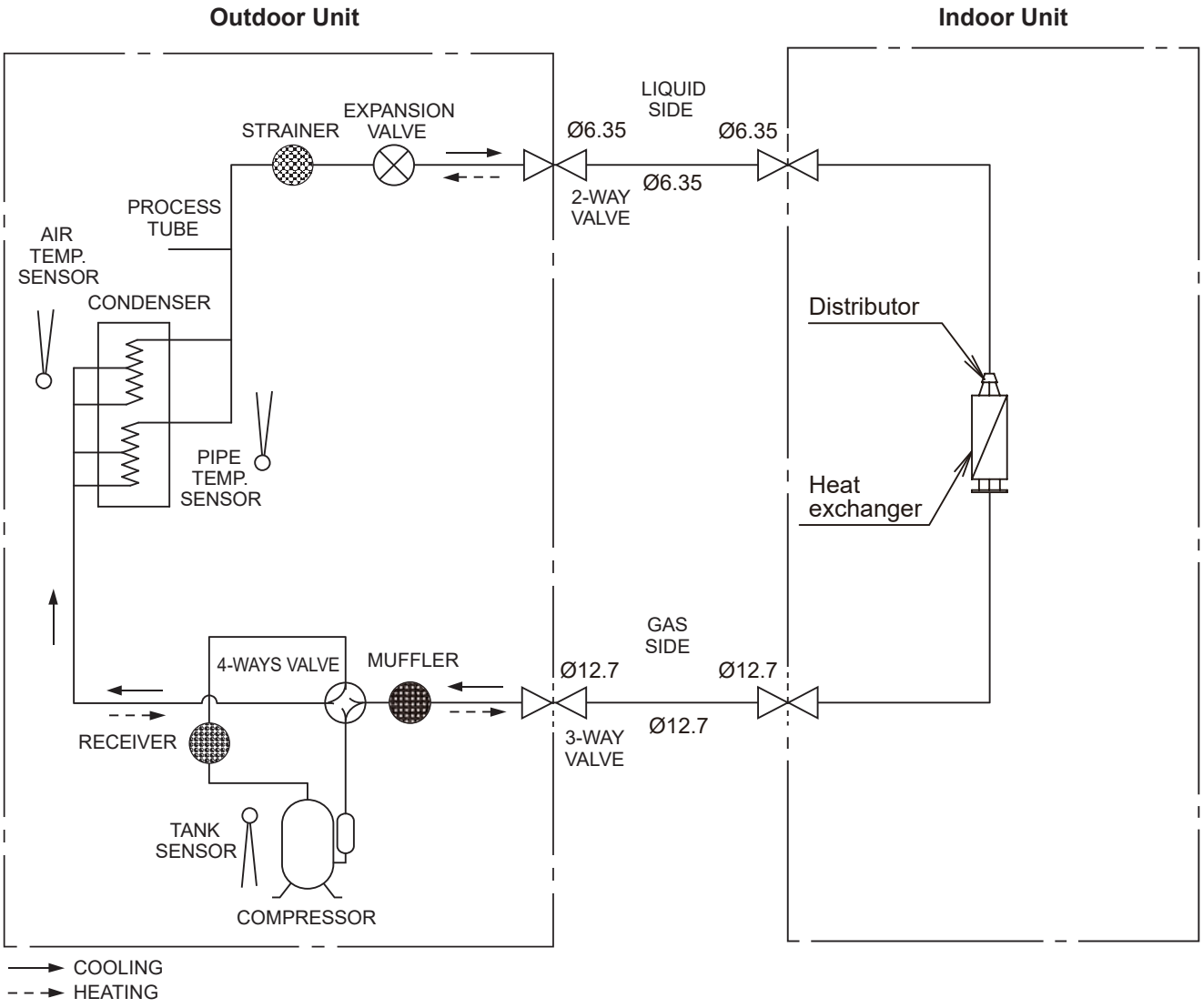

Outdoor Unit
Indoor Unit
LIQUID SIDE
Liquid socket tube (Ø9.52-Ø6.35)
STRAINER
EXPANSION VALVE
RECEIVER
2-WAY VALVE
Ø6.35
Ø9.52
Ø6.35
PIPE TEMP. SENSOR
Distributor
AIR TEMP. SENSOR
Heat exchanger
HEAT EXCHANGER (CONDENSER)
GAS SIDE
3-WAY VALVE
Ø15.88
Ø15.88
Ø15.88
4-WAYS VALVE
DISCHARGE MUFFLER
COMPRESSOR TEMP. SENSOR
COMPRESSOR
COOLING
HEATING

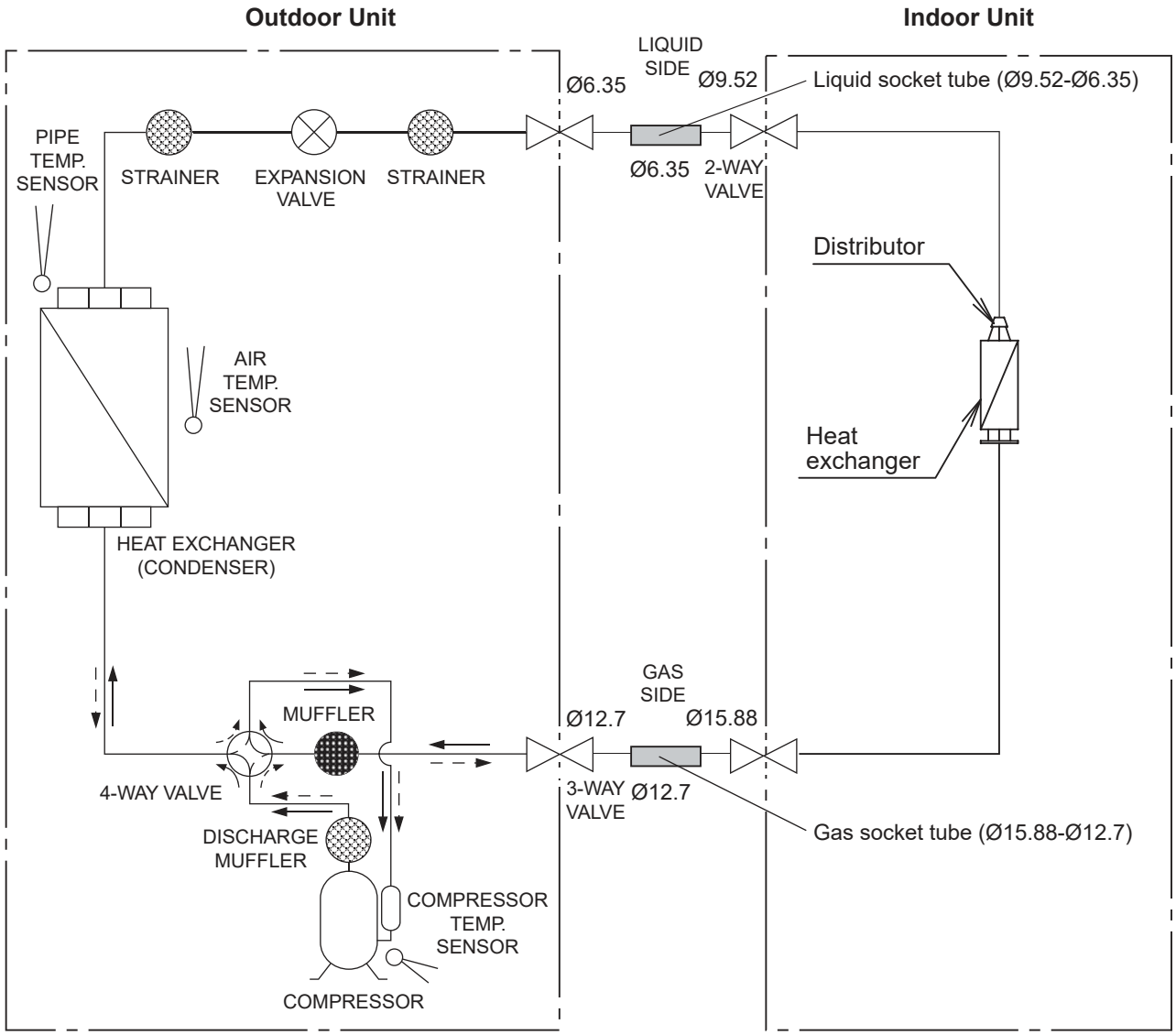
U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8



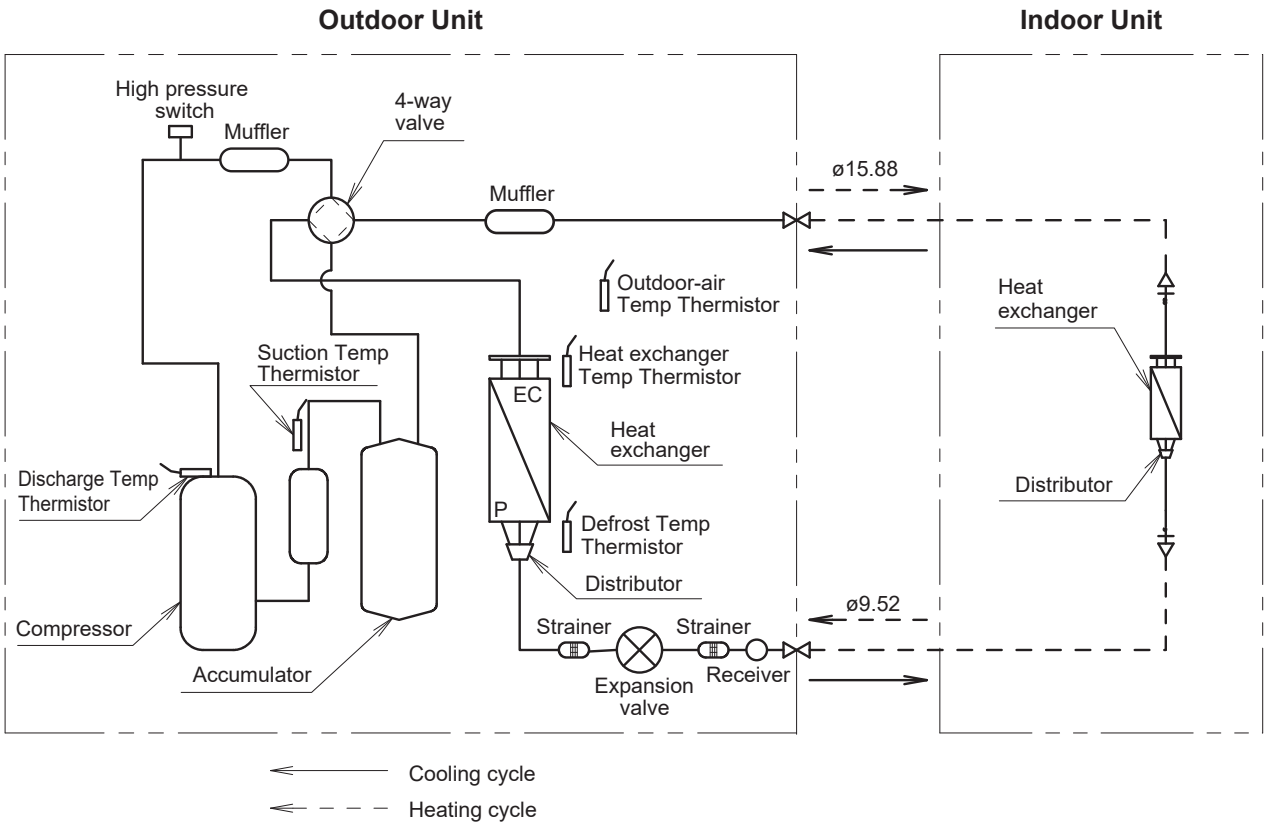


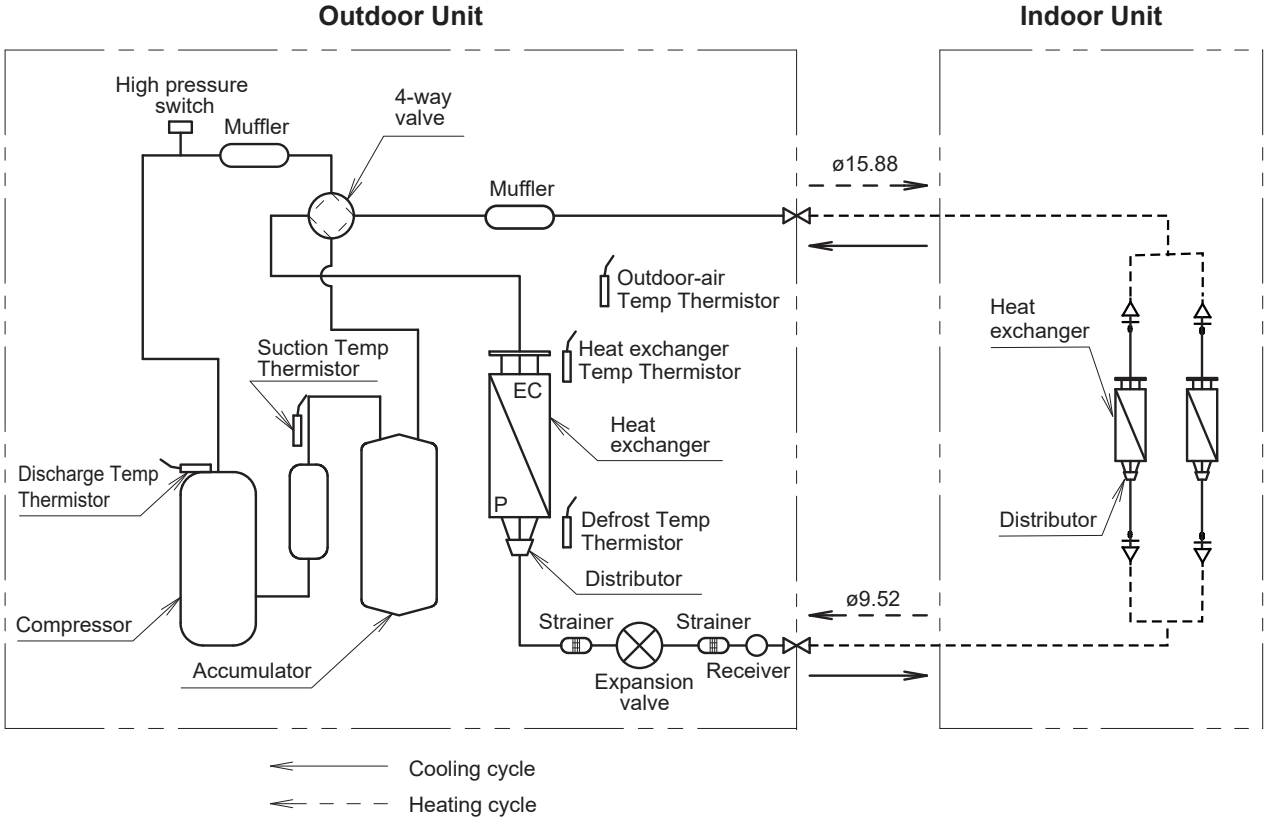
1-3-2. PZH3
U-36PZH3E5, U-50PZH3E5



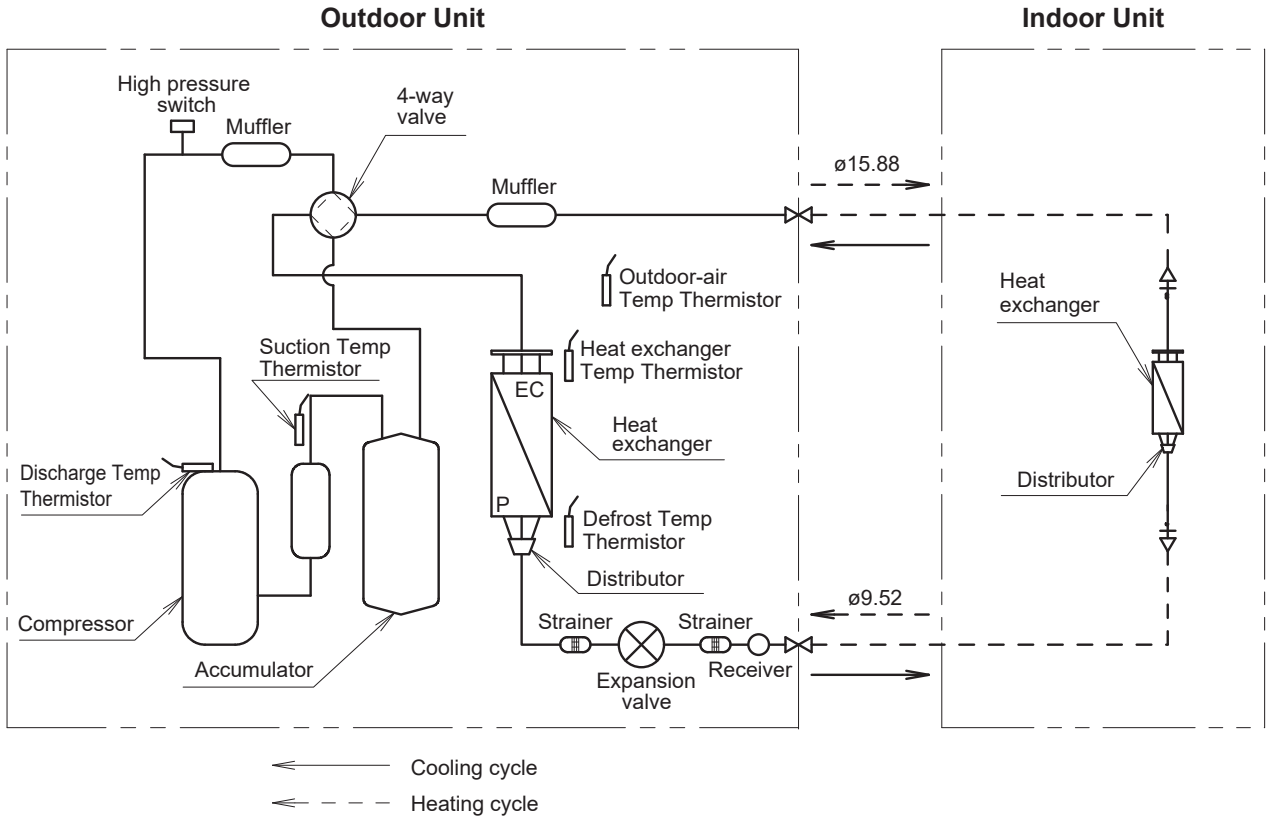

Outdoor Unit
Indoor Unit
LIQUID SIDE
Ø6.35
Ø9.52
Liquid socket tube (Ø9.52-Ø6.35)
PIPE TEMP. SENSOR
STRAINER
EXPANSION VALVE
STRAINER
Ø6.35
2-WAY VALVE
Distributor
AIR TEMP. SENSOR
Heat exchanger
HEAT EXCHANGER (CONDENSER)
GAS SIDE
MUFFLER
Ø12.7
Ø15.88
4-WAY VALVE
3-WAY VALVE
Ø12.7
Gas socket tube (Ø15.88-Ø12.7)
DISCHARGE MUFFLER
COMPRESSOR TEMP. SENSOR
COMPRESSOR

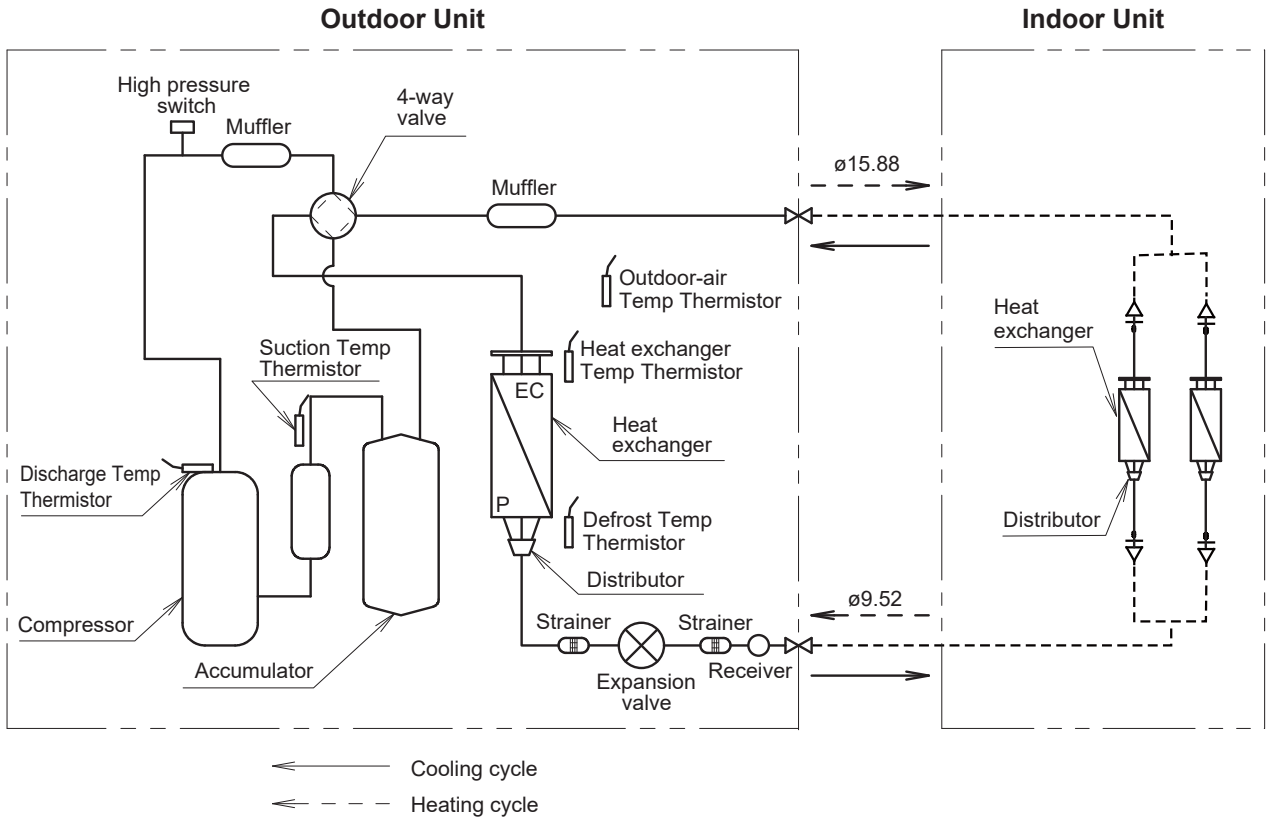
U-71PZH3E5
U-71PZH3E8

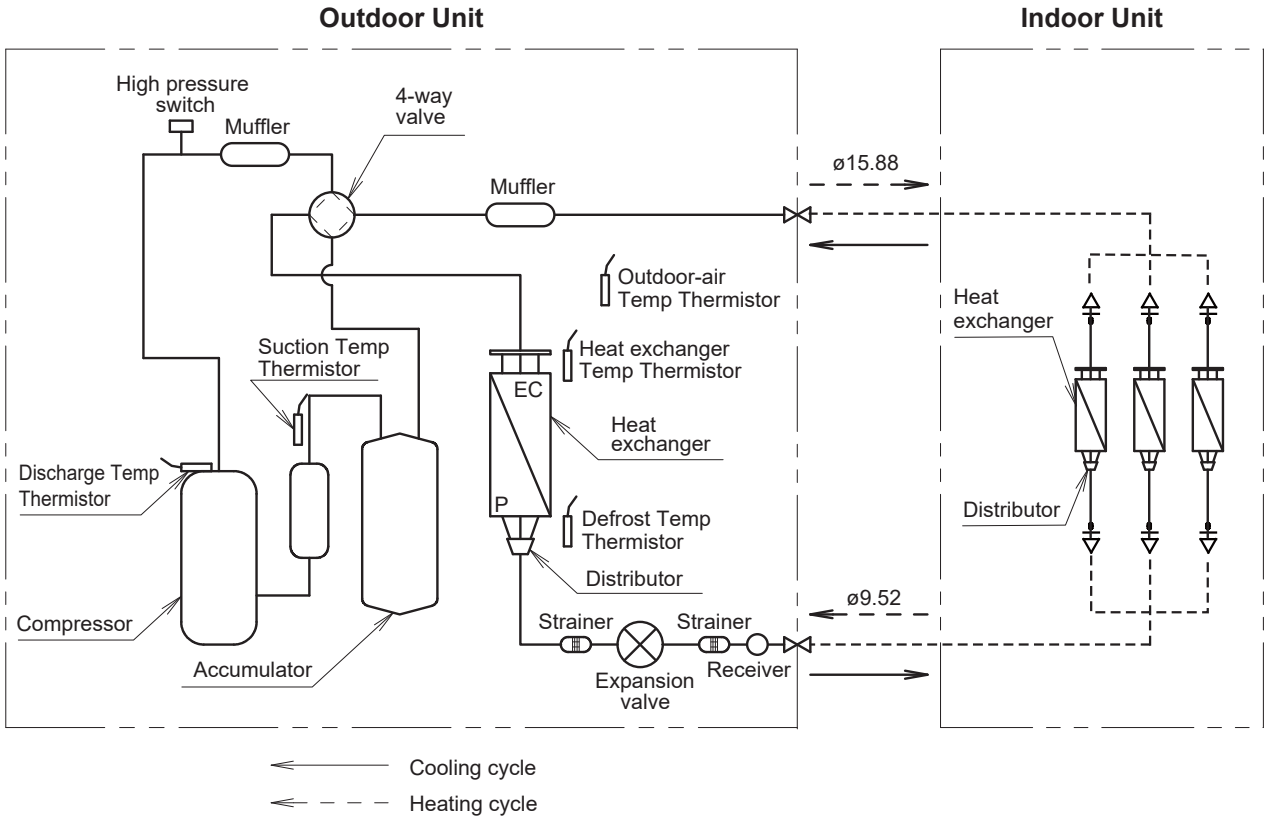


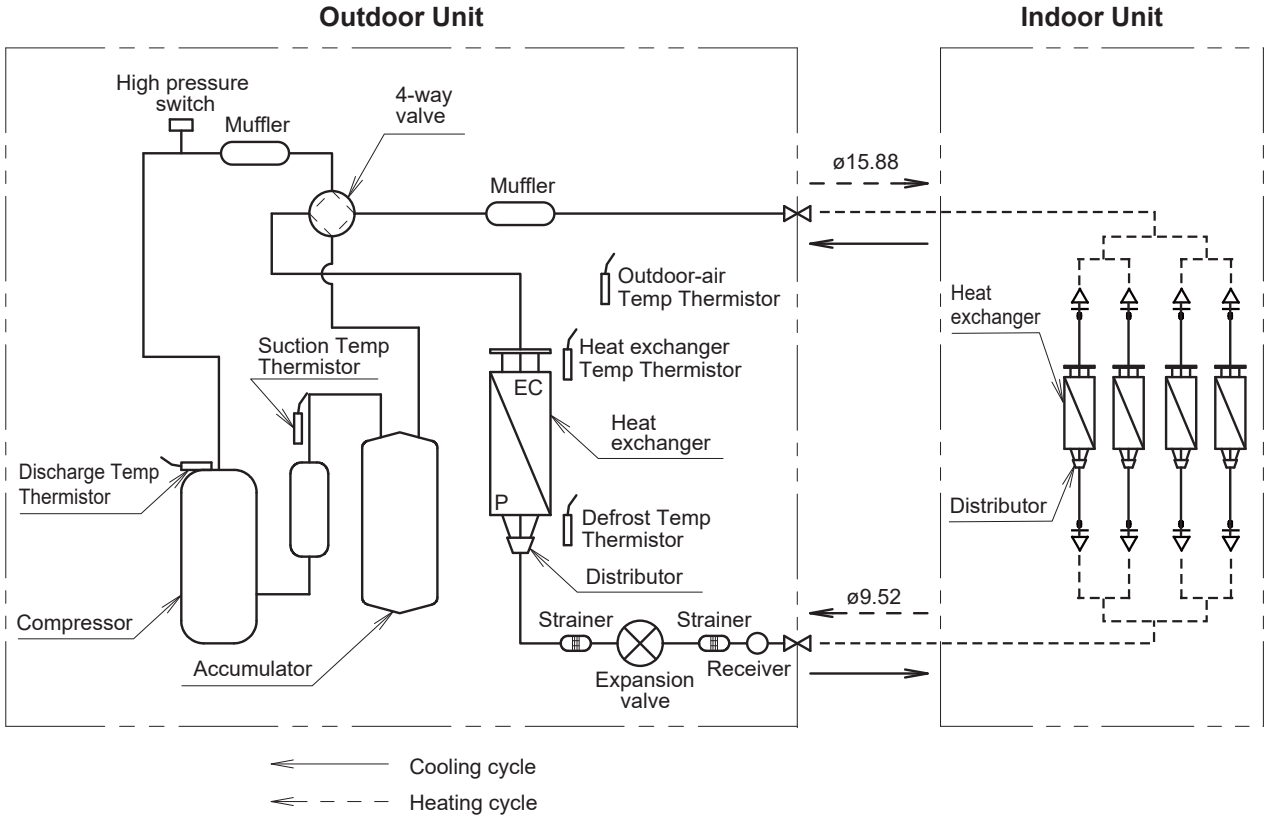


U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-100PZH3E8, U-125PZH3E8, U-140PZH3E8






Outdoor Unit
Indoor Unit
High pressure switch
Muffler
4-way valve
Muffler
ø15.88
Outdoor-air Temp Thermistor
Heat exchanger
Suction Temp Thermistor
Heat exchanger Temp Thermistor
EC
Heat exchanger
Discharge Temp Thermistor
P
Defrost Temp Thermistor
Distributor
Distributor
ø9.52
Compressor
Strainer
Strainer
Accumulator
Expansion valve
Receiver
Cooling cycle
Heating cycle

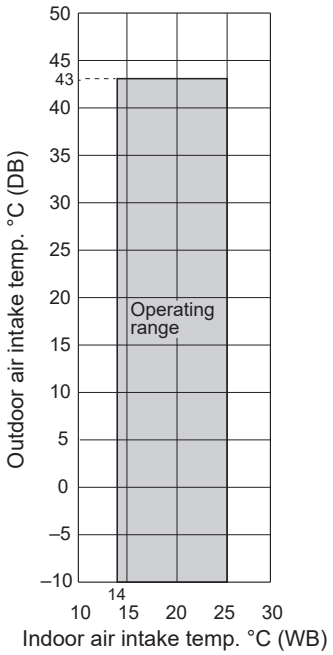

Outdoor Unit
Indoor Unit
High pressure switch
Muffler
4-way valve
Muffler
ø15.88
Outdoor-air Temp Thermistor
Heat exchanger
Suction Temp Thermistor
Heat exchanger Temp Thermistor
EC
Heat exchanger
Discharge Temp Thermistor
P
Defrost Temp Thermistor
Distributor
Distributor
ø9.52
Compressor
Strainer
Strainer
Accumulator
Expansion valve
Receiver
Cooling cycle
Heating cycle

1-4. Operating Range

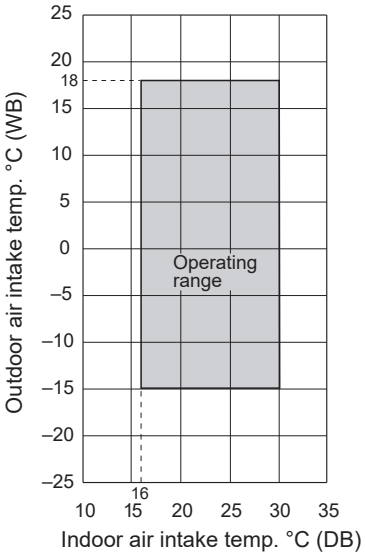
1-4-1. PZ3

	Temperature	Indoor air intake temp.	Outdoor air intake temp.
Cooling	Maximum	32°C DB / 25°C WB	43°C DB
	Minimum	18°C DB / 14°C WB	-10°C DB
Heating	Maximum	30°C DB / − WB	24°C DB/18°C WB
	Minimum	16°C DB / − WB	-15°C DB / -15°C WB

Cooling



Heating

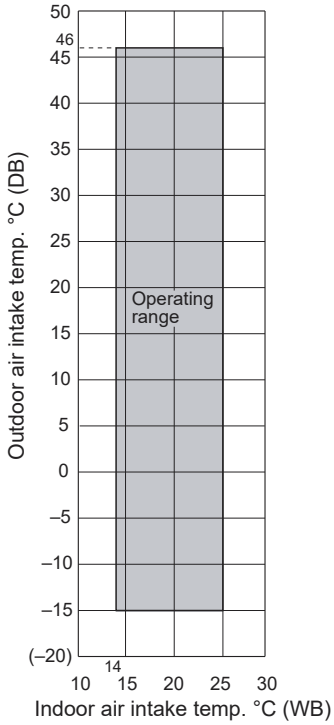


1-4-2. PZH3

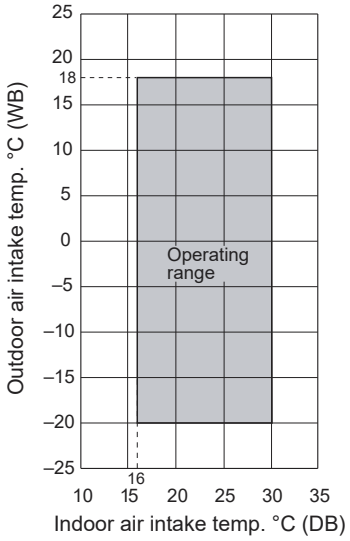
U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

	Temperature	Indoor air intake temp.	Outdoor air intake temp.
Cooling	Maximum	32°C DB / 25°C WB	46°C DB
	Minimum	18°C DB / 14°C WB	-15°CDB
Heating	Maximum	30°C DB / – WB	24°C DB / 18°C WB
	Minimum	16°C DB / – WB	-20°C DB / -20°C WB

Cooling



Heating

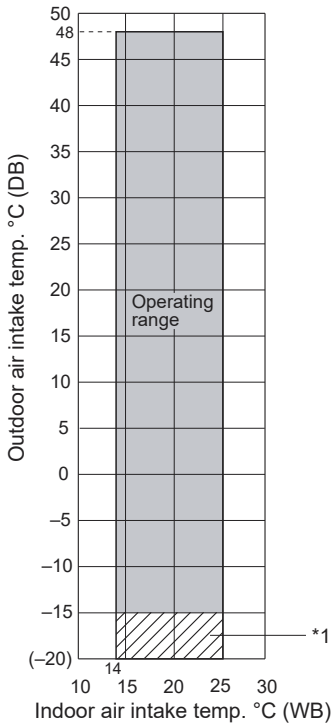


U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

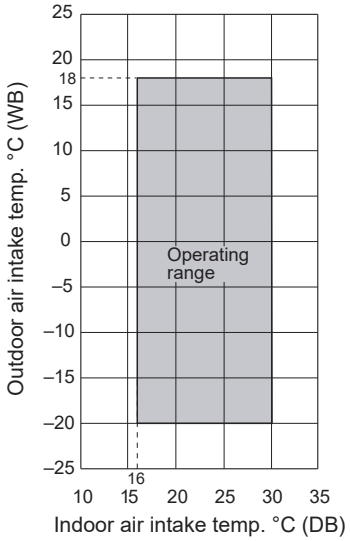
	Temperature	Indoor air intake temp.	Outdoor air intake temp.
Cooling	Maximum	32°C DB / 25°C WB	48°C DB
	Minimum	18°C DB / 14°C WB	-15°CDB, (-20°C DB *1)
Heating	Maximum	30°C DB / – WB	24°C DB / 18°C WB
	Minimum	16°C DB / – WB	-20°C DB / -20°C WB

*1 For model 100~140 PZH3E5(8) , It is possible to operate the lowest -20°C in the computer rooms with the piping length of 30m or less.

Cooling



Heating

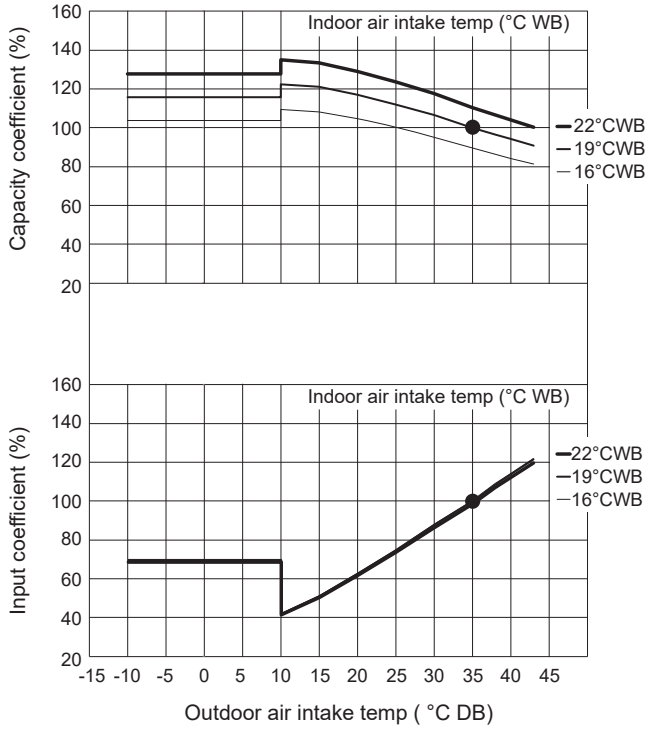


1-5. Capacity Correction

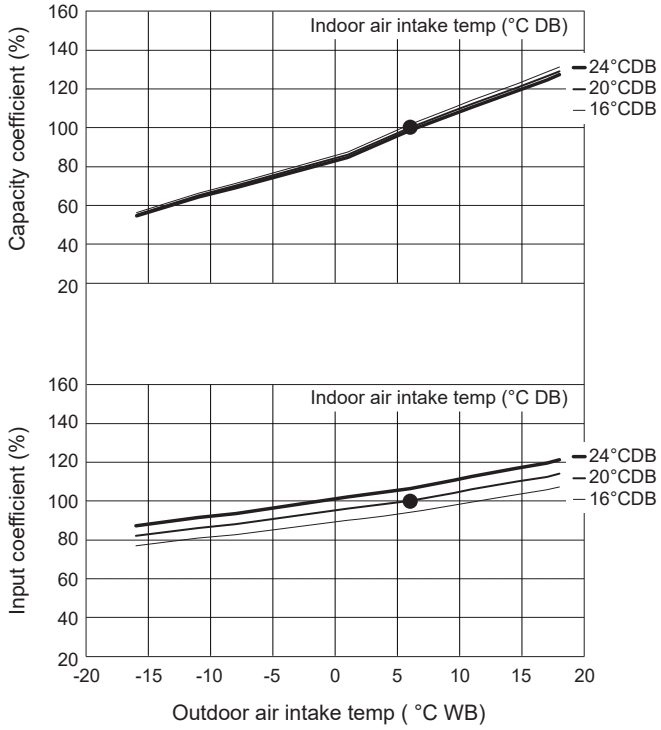
1-5-1. Graph According to Temperature Condition

1-5-1-1. PZ3 U-25PZ3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



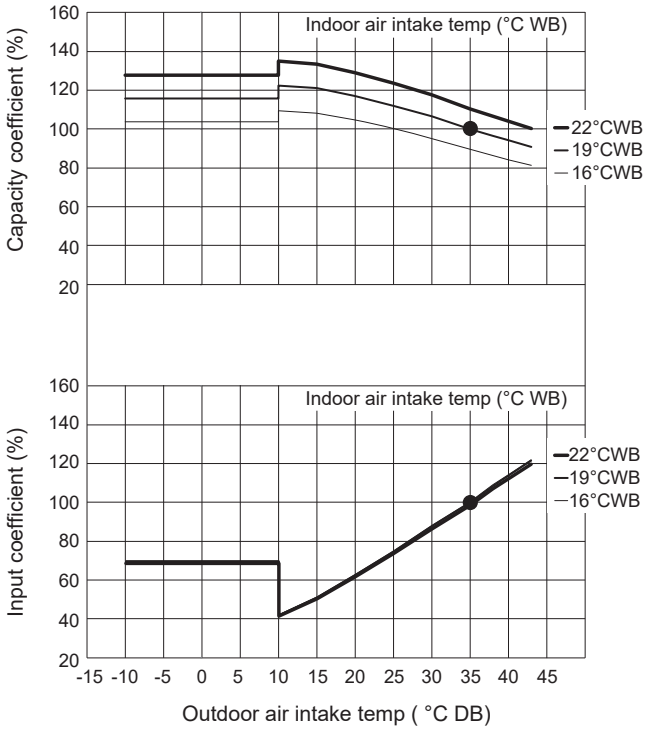
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.935	0.933	0.931	0.929	0.927	0.925	0.919	0.913	0.907	0.901	0.894	0.888	0.882	0.876	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.000

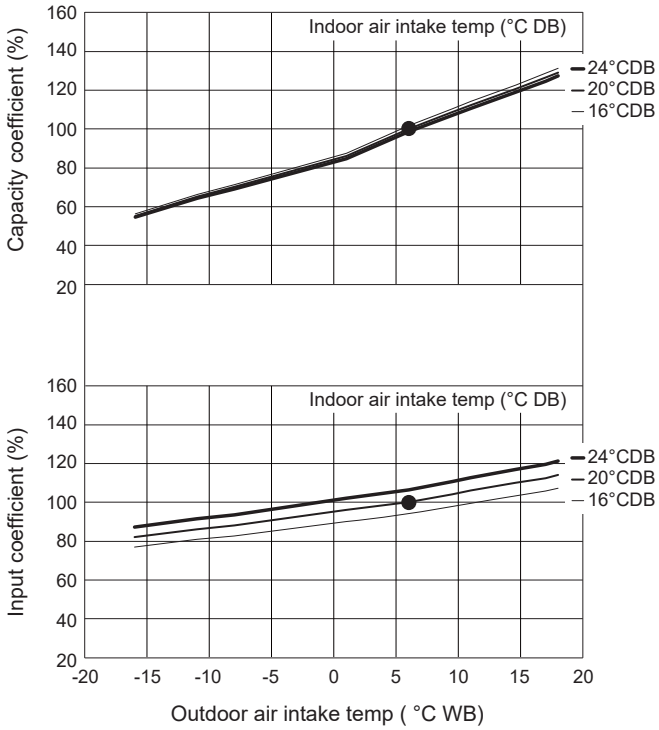
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-36PZ3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



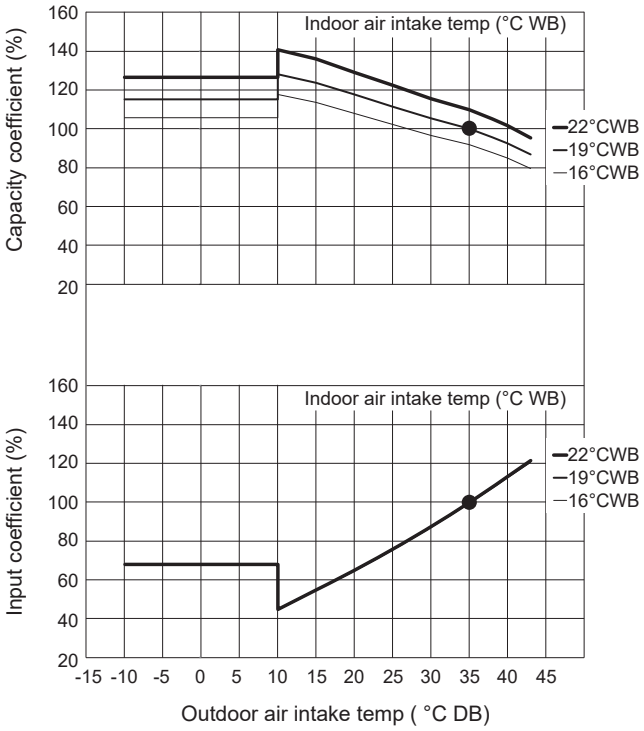
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.935	0.933	0.931	0.929	0.927	0.925	0.919	0.913	0.907	0.901	0.894	0.888	0.882	0.876	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.000

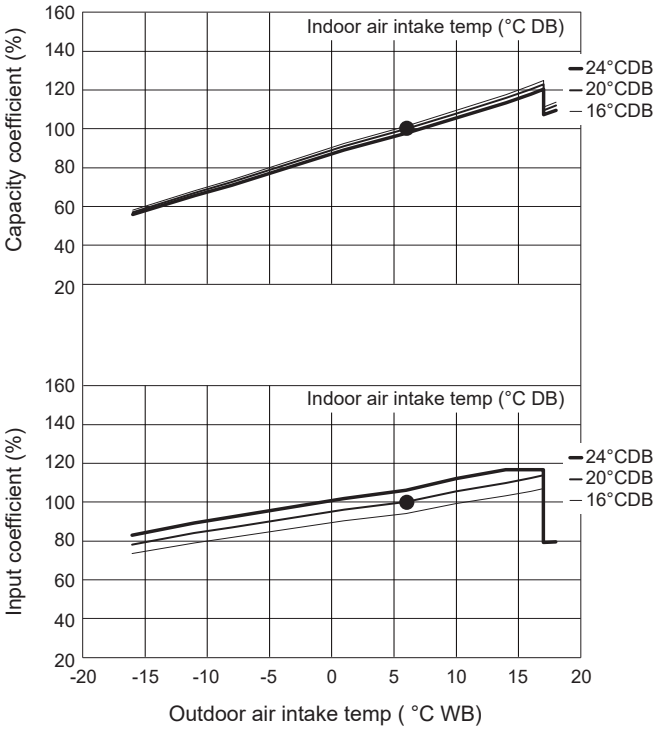
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-50PZ3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



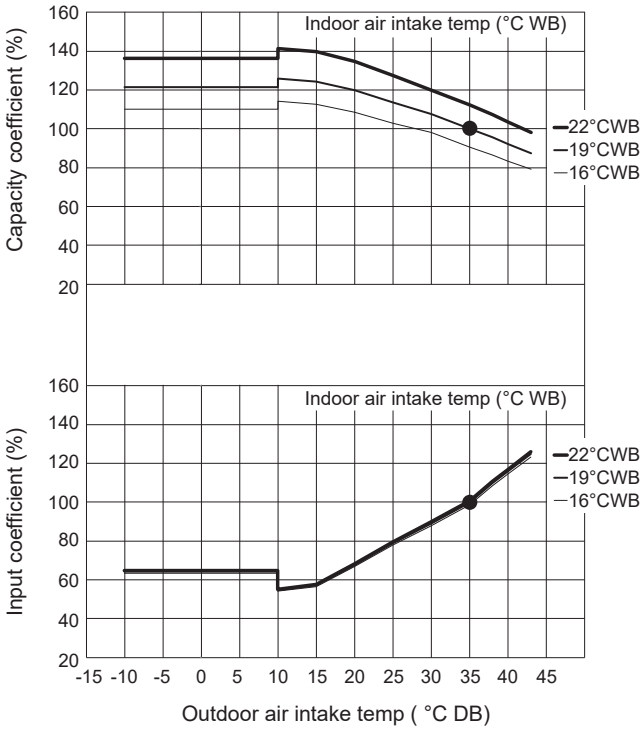
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.930	0.924	0.918	0.912	0.906	0.900	0.923	0.910	0.910	0.903	0.896	0.890	0.883	0.876	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.000

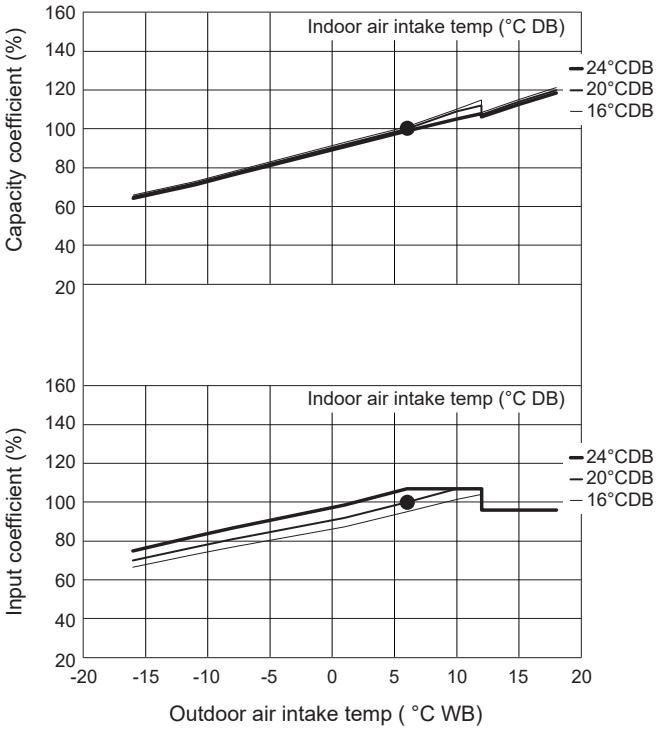
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-60PZ3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



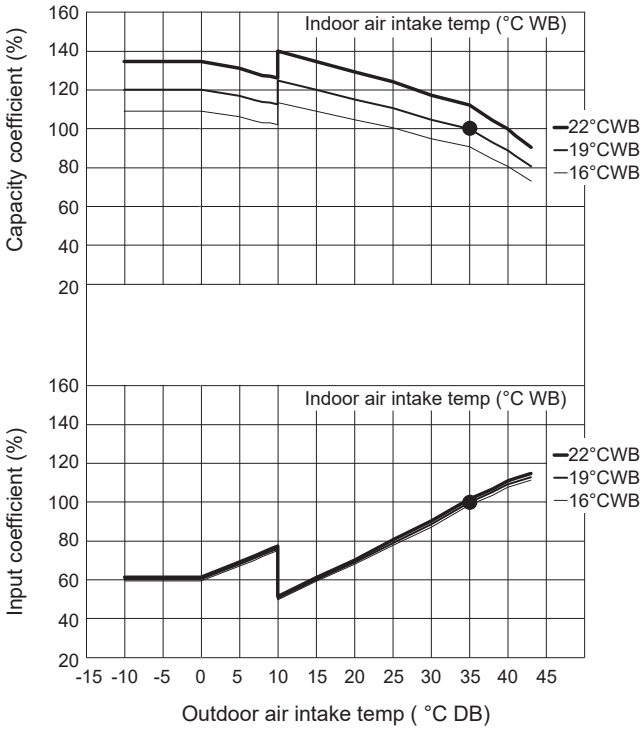
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.935	0.934	0.933	0.932	0.931	0.930	0.923	0.917	0.910	0.903	0.896	0.890	0.883	0.876	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.000

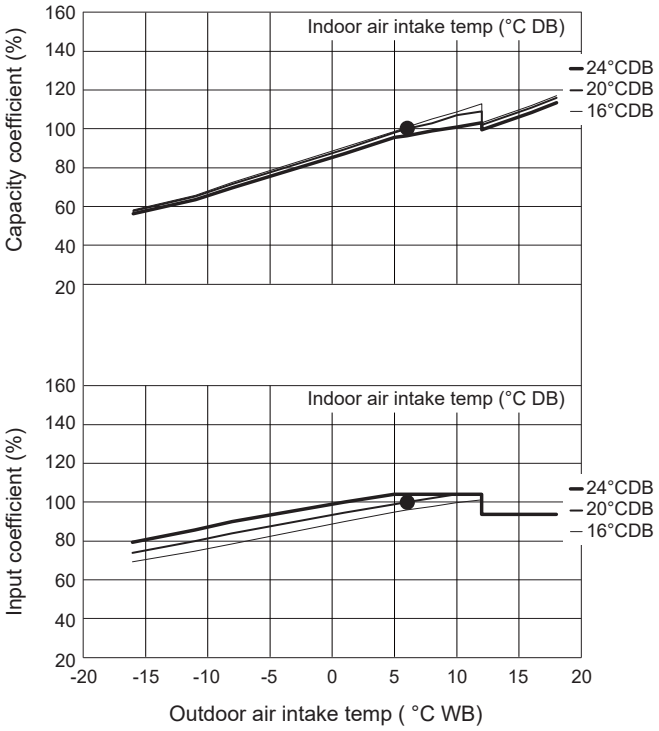
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-71PZ3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



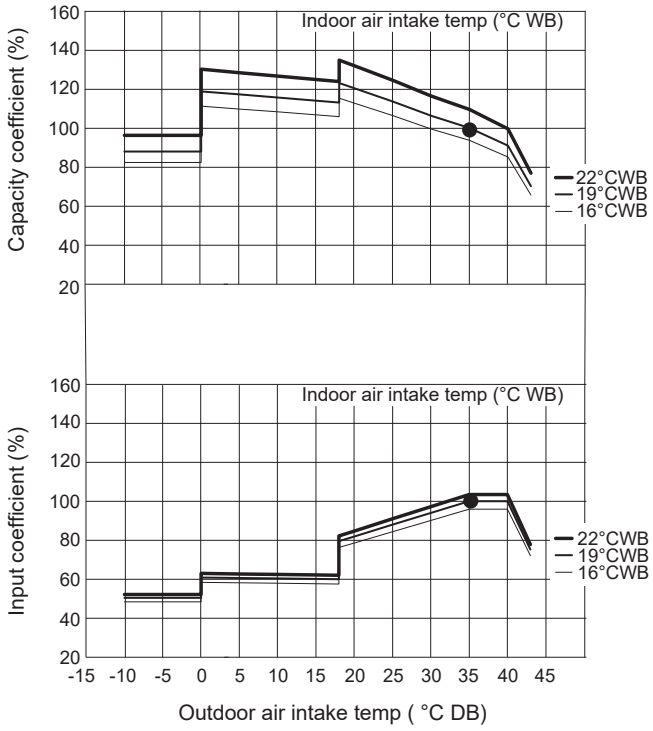
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.935	0.934	0.933	0.932	0.931	0.930	0.923	0.917	0.910	0.903	0.896	0.890	0.883	0.876	0.876	0.840	0.870	0.890	0.930	0.950	0.980	0.990	1.000

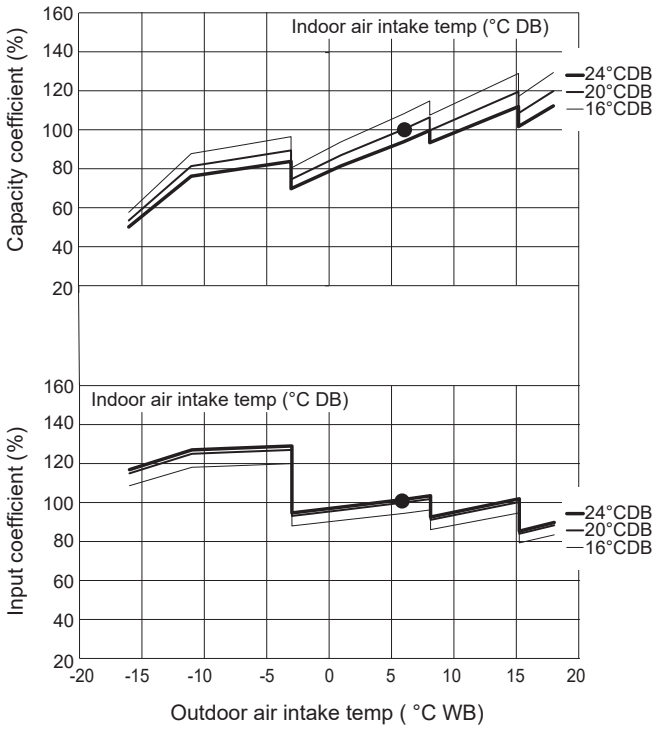
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-100PZ3E5, U-100PZ3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



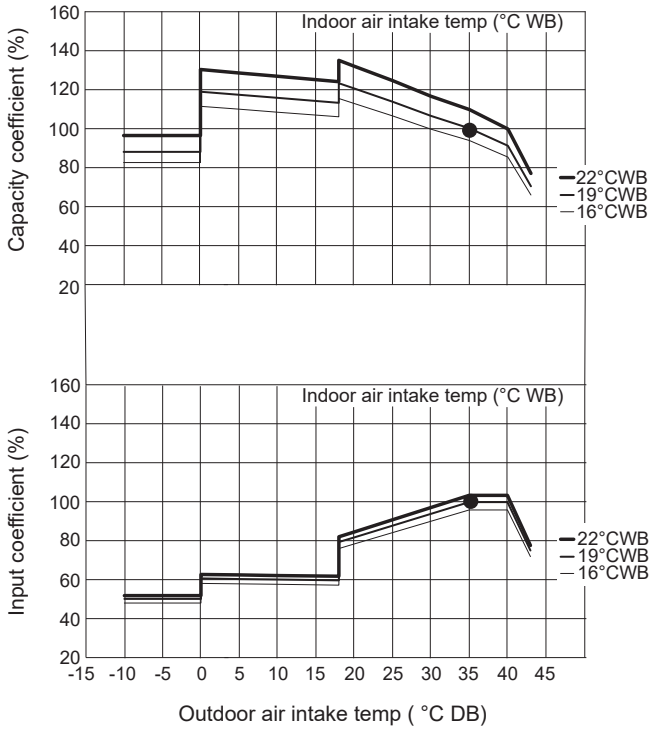
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.000

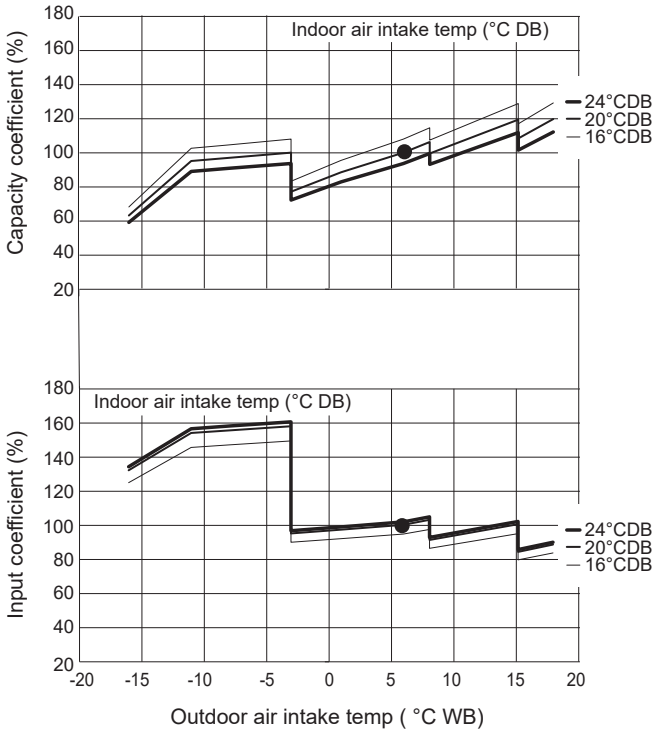
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-125PZ3E5, U-125PZ3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



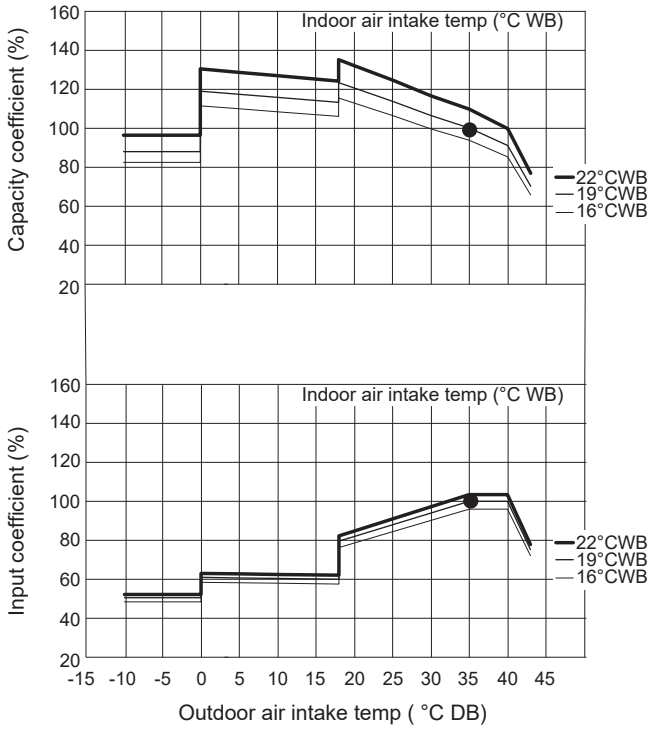
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.000

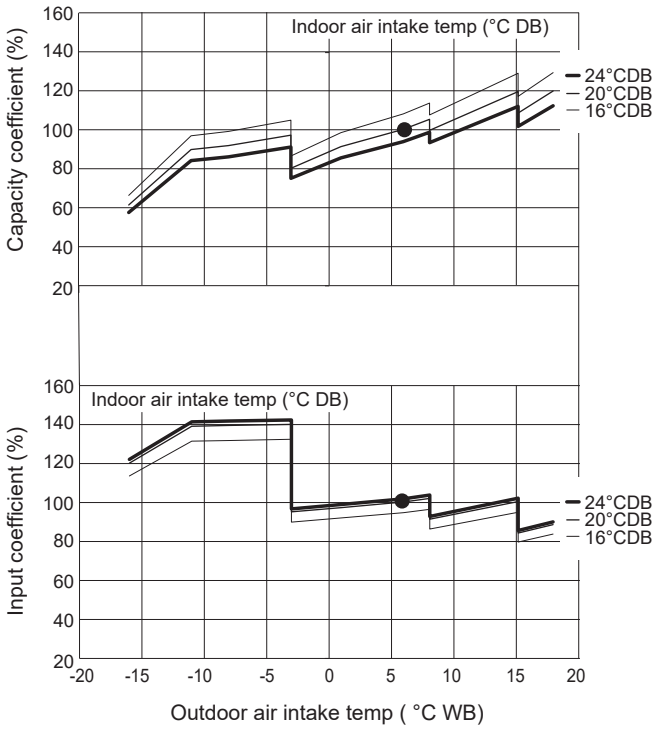
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-1. PZ3 U-140PZ3E5, U-140PZ3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



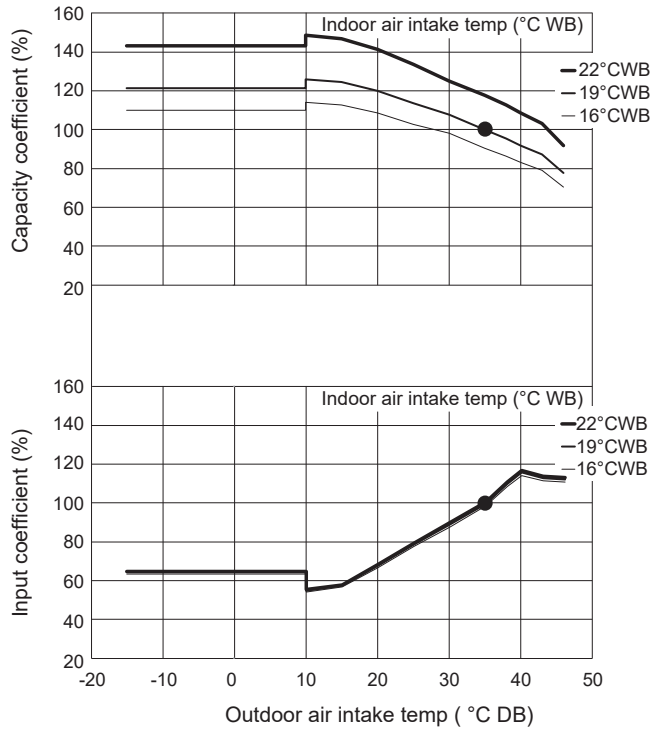
Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.000

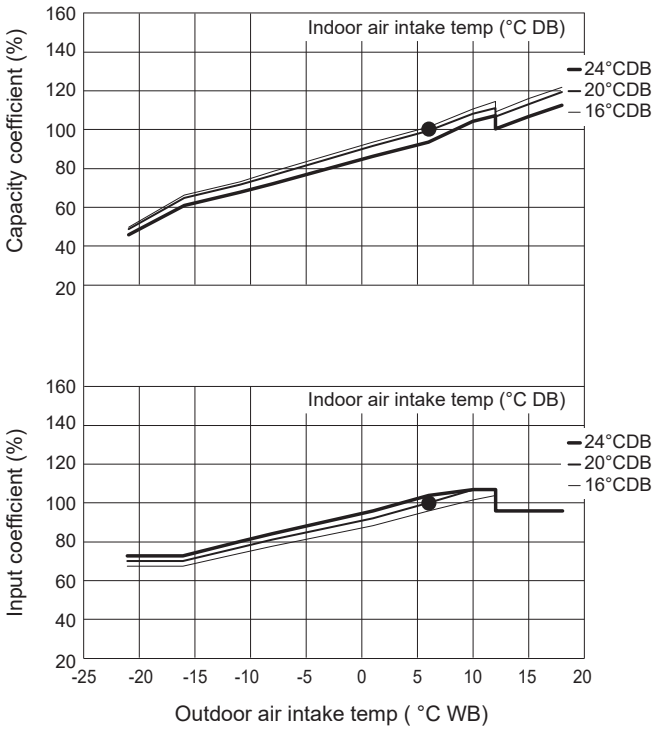
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-36PZH3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

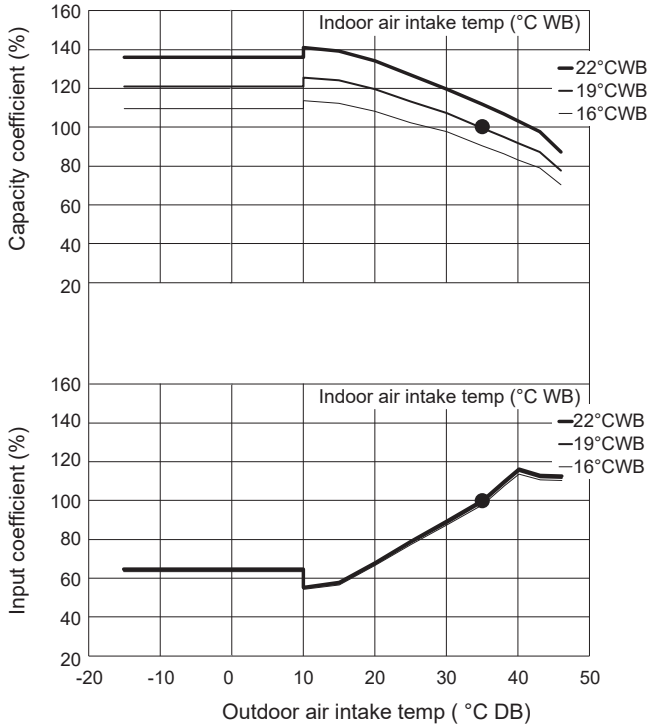
Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.940	0.939	0.938	0.937	0.936	0.935	0.934	0.933	0.932	0.931	0.930	0.923	0.917	0.910	0.903	0.896	0.890	0.883	0.876

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.00

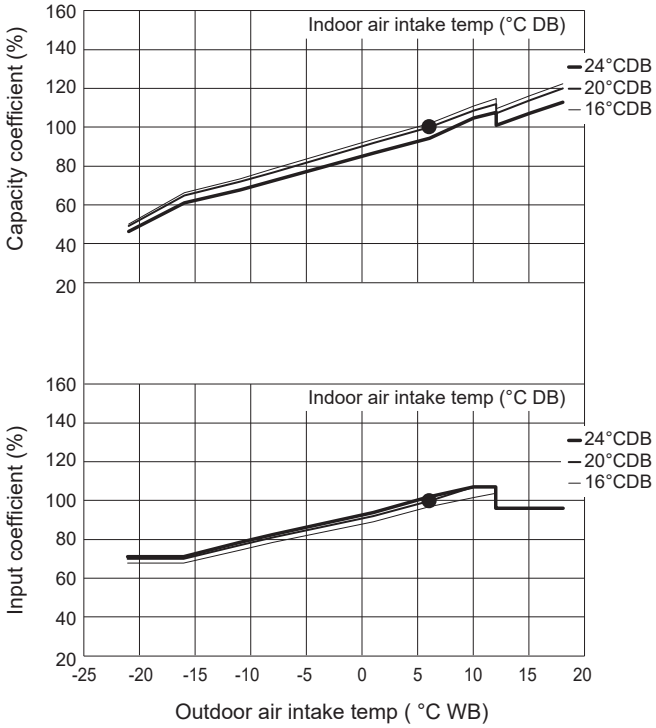
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-50PZH3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

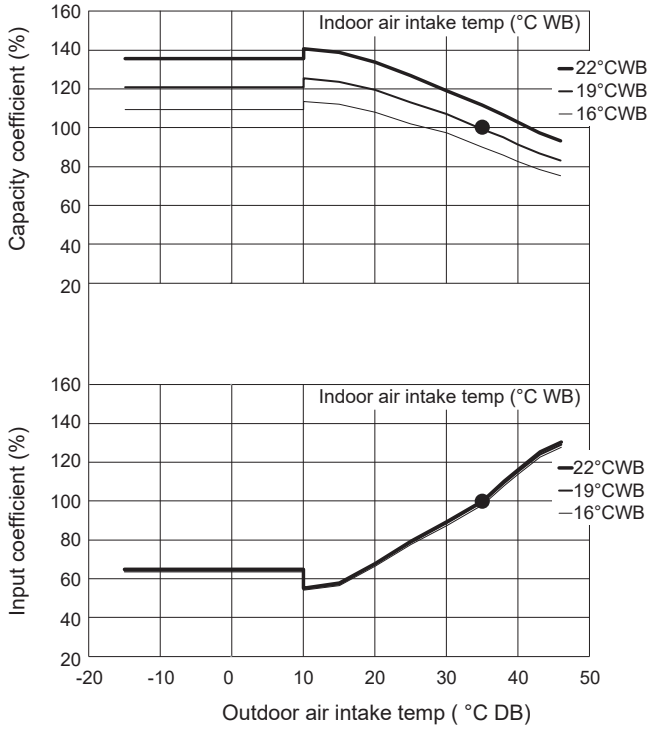
Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.940	0.939	0.938	0.937	0.936	0.935	0.934	0.933	0.932	0.931	0.930	0.923	0.917	0.910	0.903	0.896	0.890	0.883	0.876

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.00

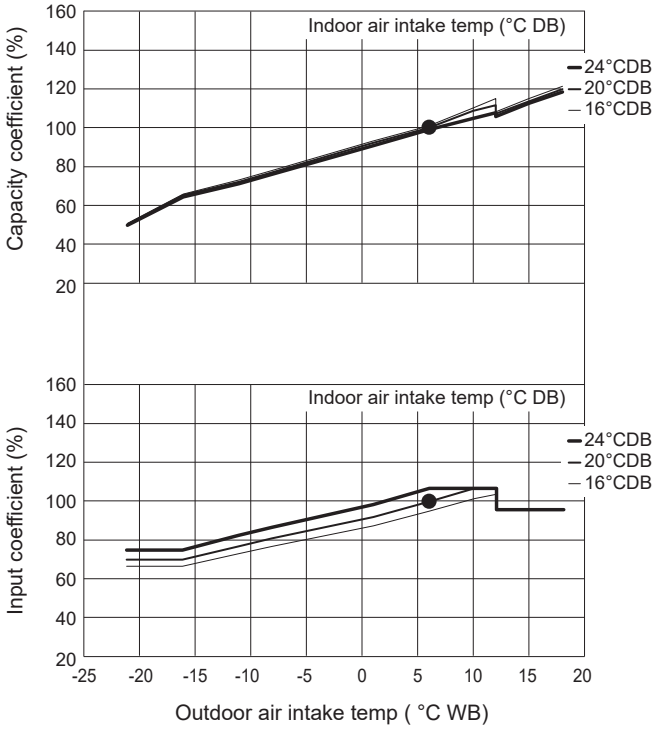
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-60PZH3E5

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

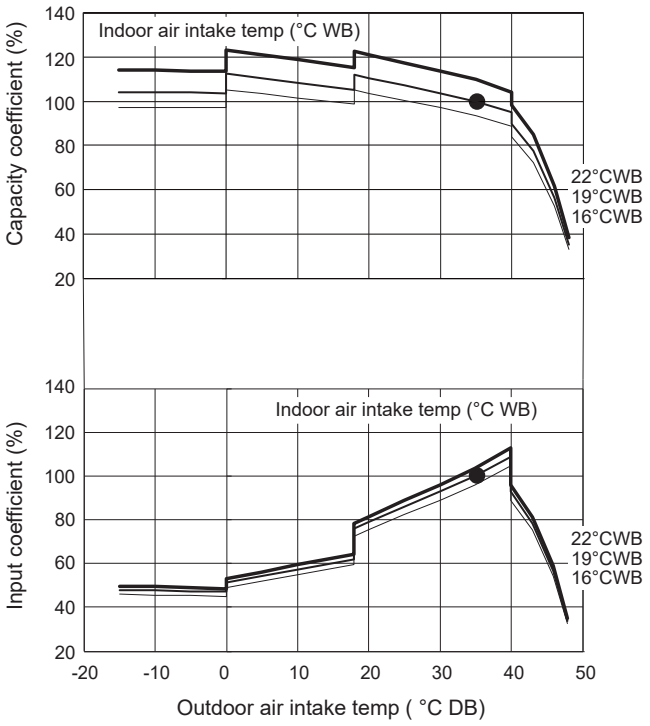
Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.940	0.939	0.938	0.937	0.936	0.935	0.934	0.933	0.932	0.931	0.930	0.923	0.917	0.910	0.903	0.896	0.890	0.883	0.876

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6
Correction coefficient	0.876	0.892	0.907	0.923	0.938	0.954	0.969	0.985	1.00

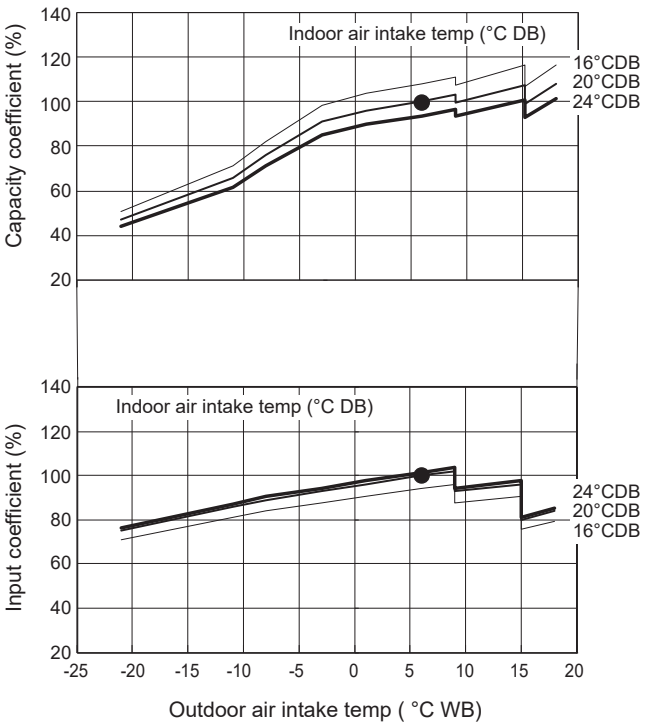
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-71PZH3E5, U-71PZH3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

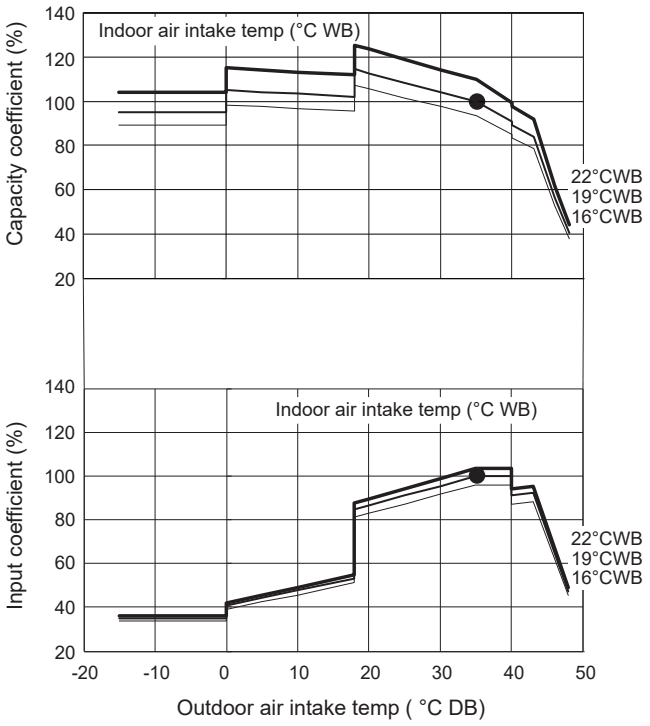
Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6	7
Correction coefficient	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.00

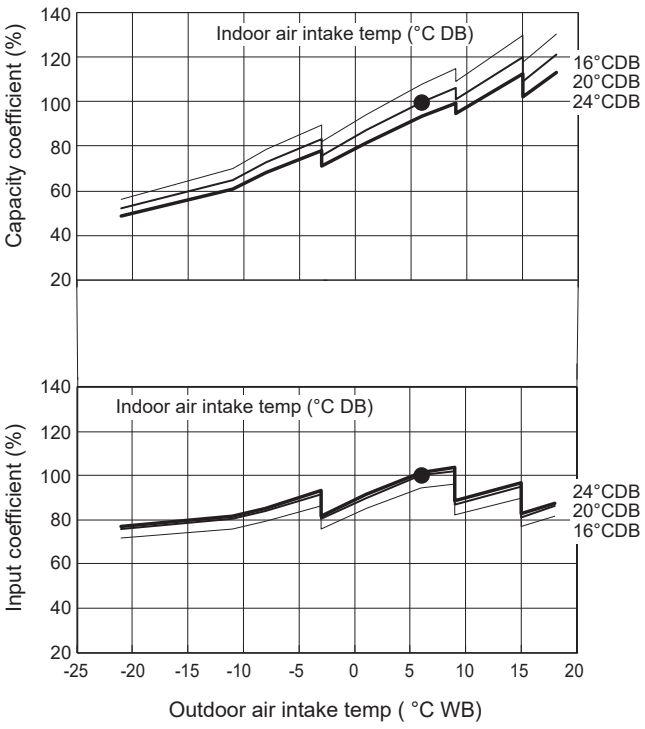
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-100PZH3E5, U-100PZH3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

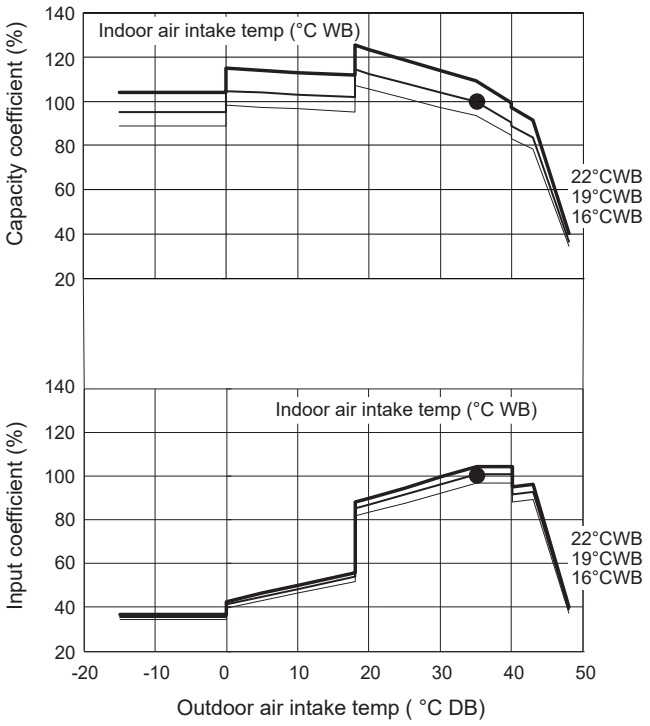
Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6	7
Correction coefficient	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.00

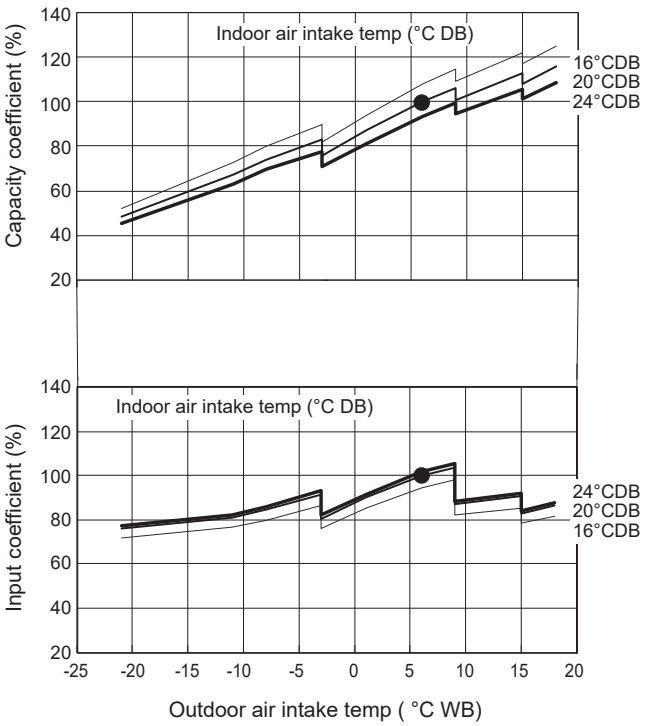
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-125PZH3E5, U-125PZH3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

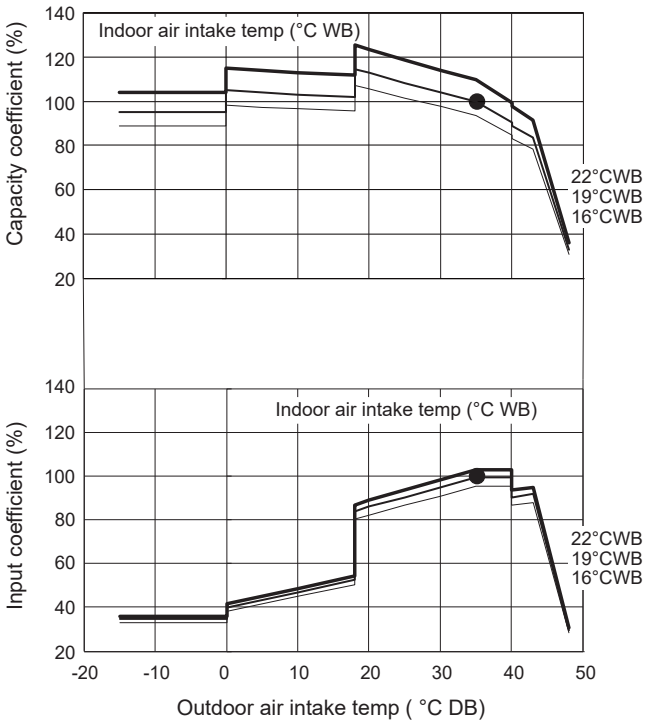
Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6	7
Correction coefficient	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.00

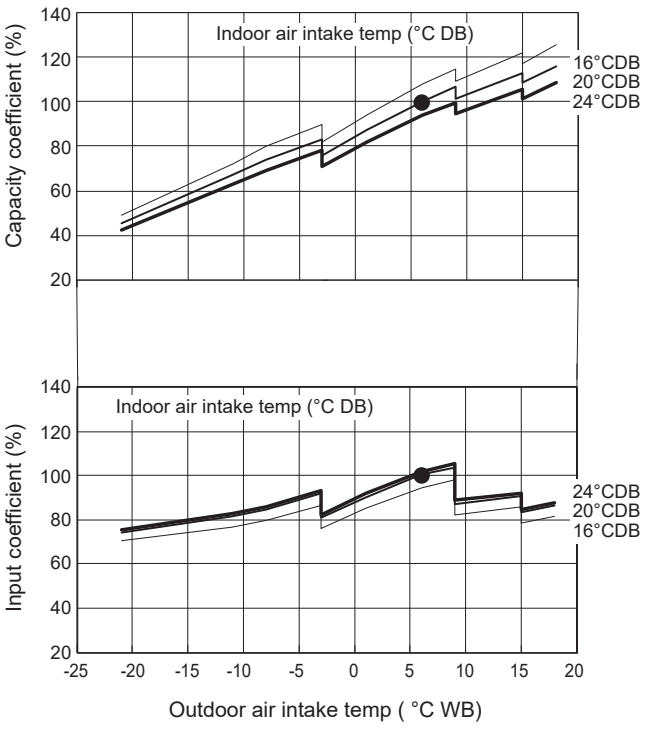
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-1-2. PZH3 U-140PZH3E5, U-140PZH3E8

Cooling capacity ratio (maximum capacity)



Heating capacity ratio (maximum capacity)



Outdoor unit heating capacity correction coefficient during of frosting/defrosting

Outdoor intake air temperature °C WB	-21	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3
Correction coefficient	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.870

Outdoor intake air temperature °C WB	-2	-1	0	1	2	3	4	5	6	7
Correction coefficient	0.870	0.870	0.850	0.850	0.830	0.850	0.890	0.910	0.950	1.00

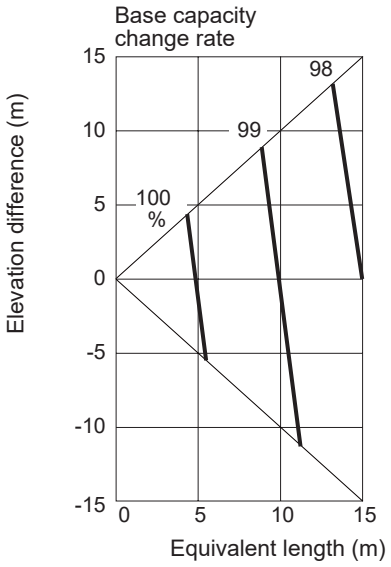
To calculate the heating capacity with consideration for frosting/defrosting operation, multiply the heating capacity found from the capacity graph by the correction coefficient from the table above.

1-5-2. Graph of capacity change characteristics resulting from tubing length and elevation difference

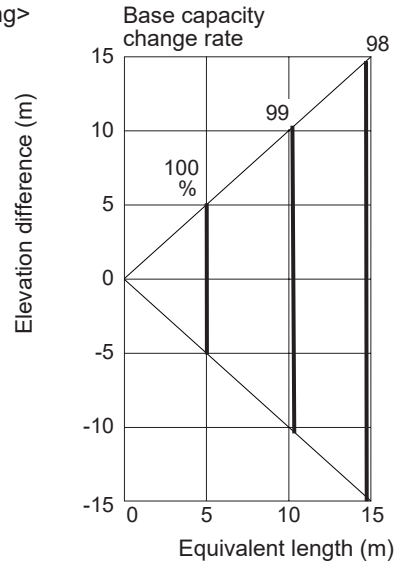
(Performance correction coefficients by elevation difference of refrigerant tube length [performance change rate ÷ 100] is calculated by the following line map.)

1-5-2-1. PZ3 U-25PZ3E5, U-36PZ3E5

<Cooling>

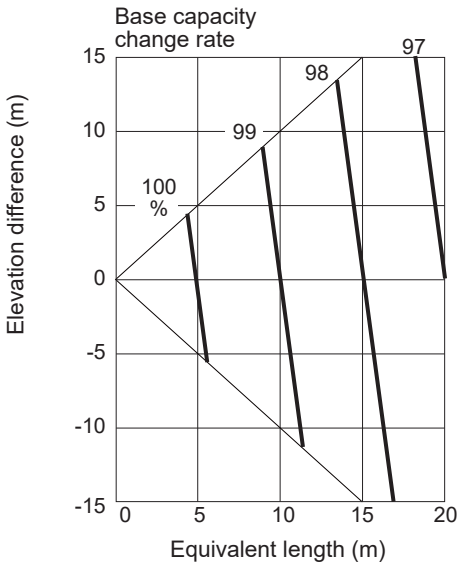


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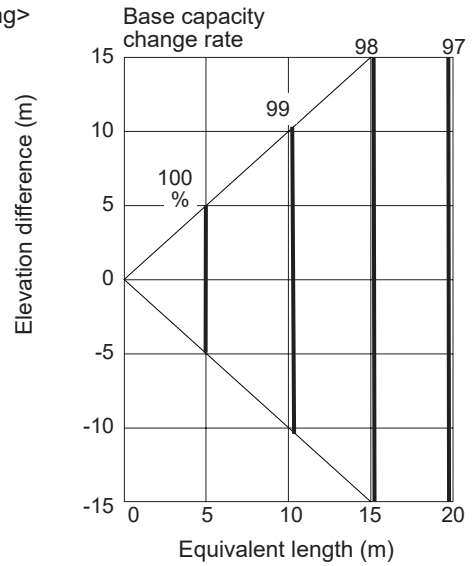


U-50PZ3E5

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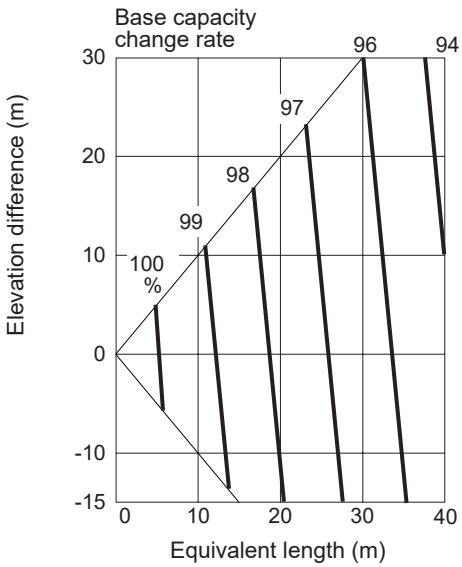


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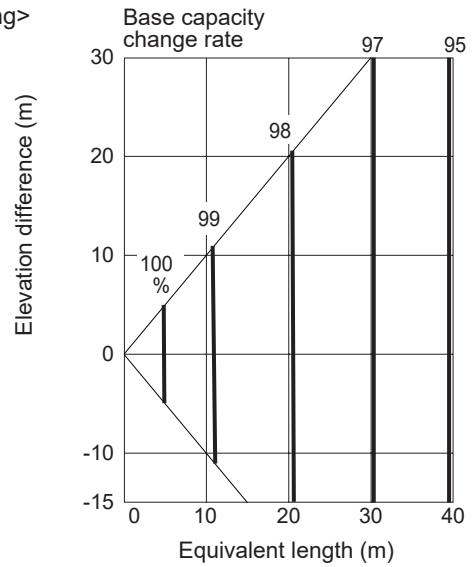


U-60PZ3E5A

<Cooling>



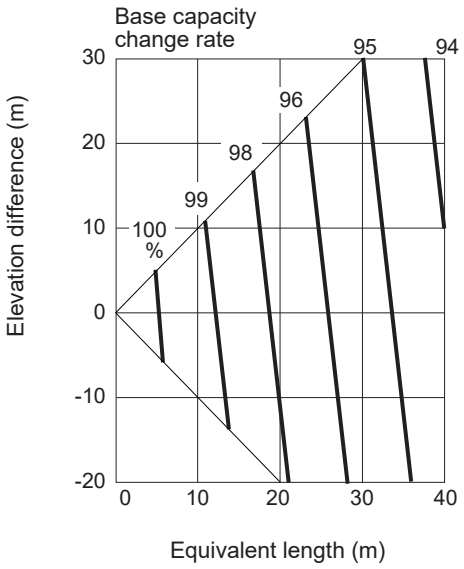
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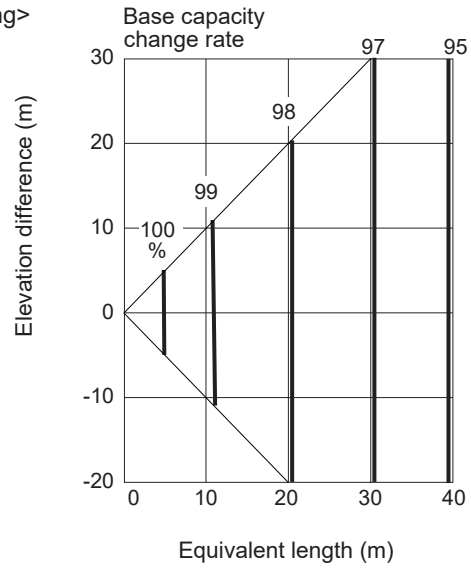
*The positive side for the elevation difference indicates that the outdoor unit is installed at a higher position than the indoor units. The negative side indicates the opposite.

U-71PZ3E5A

<Cooling>

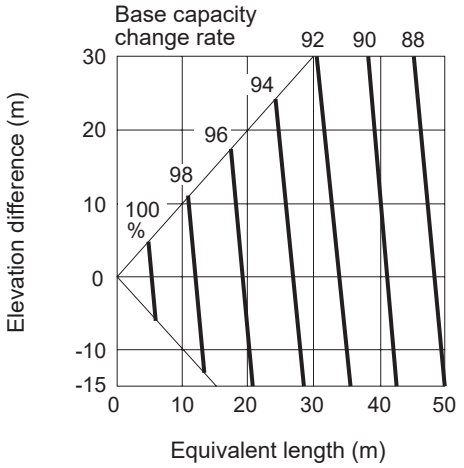


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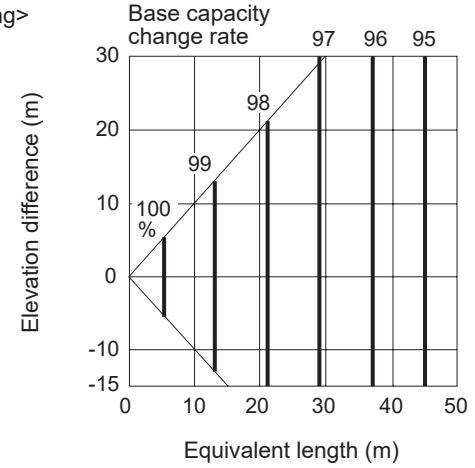


U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

<Cooling>



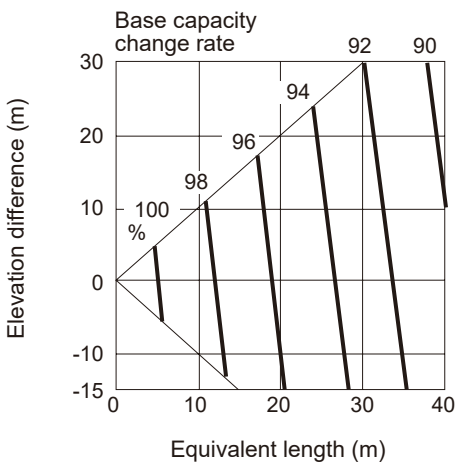
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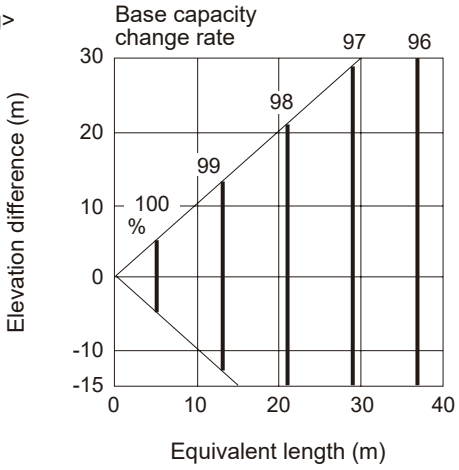
*The positive side for the elevation difference indicates that the outdoor unit is installed at a higher position than the indoor units. The negative side indicates the opposite.

1-5-2-2. PZH3 U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

<Cooling>

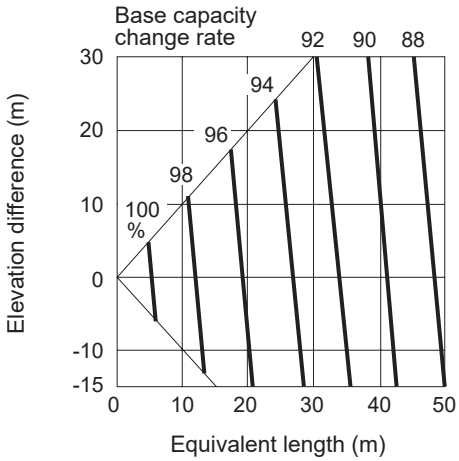


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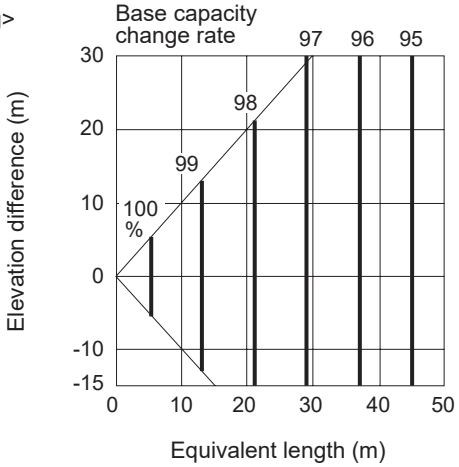


U-71PZH3E5
U-71PZH3E8

<Cooling>



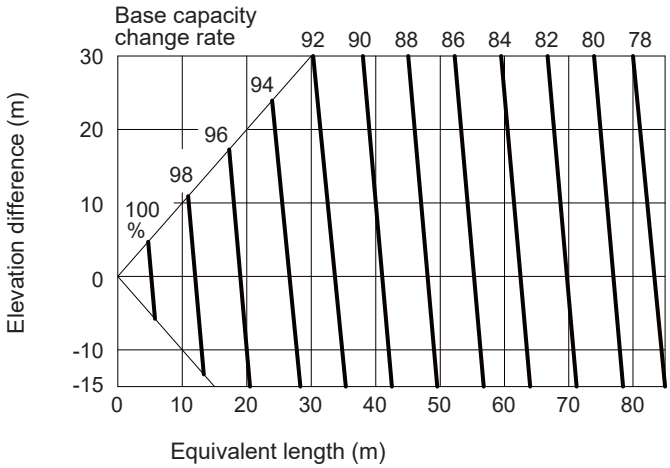
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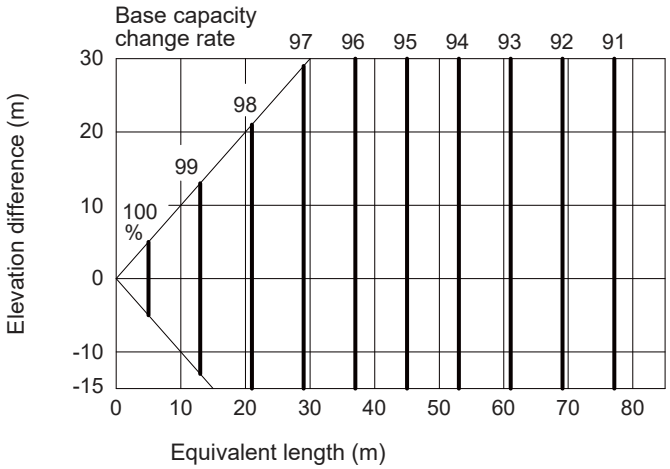
*The positive side for the elevation difference indicates that the outdoor unit is installed at a higher position than the indoor units. The negative side indicates the opposite.

U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

<Cooling>



<Heating>

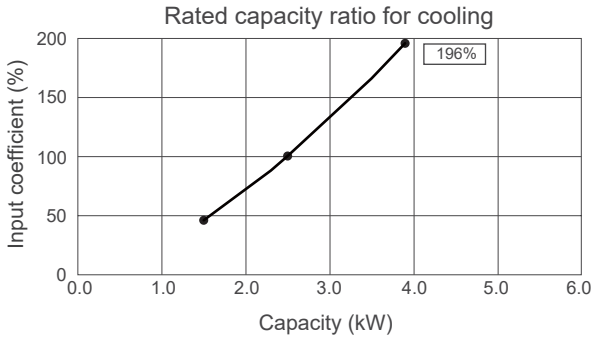


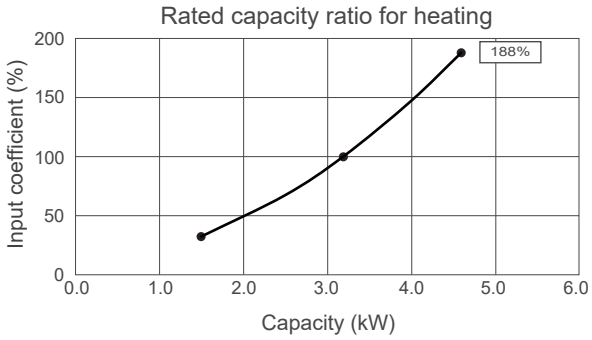
*The positive side for the elevation difference indicates that the outdoor unit is installed at a higher position than the indoor units. The negative side indicates the opposite.

1-5-3. Rated Capacity Ratio

1-5-3-1. PZ3 U-25PZ3E5

4-Way Cassette 60 × 60 Type



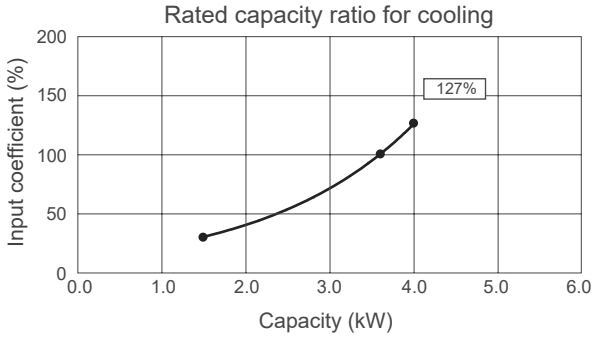


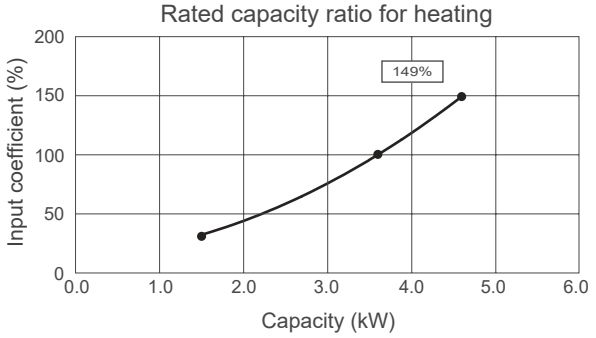
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

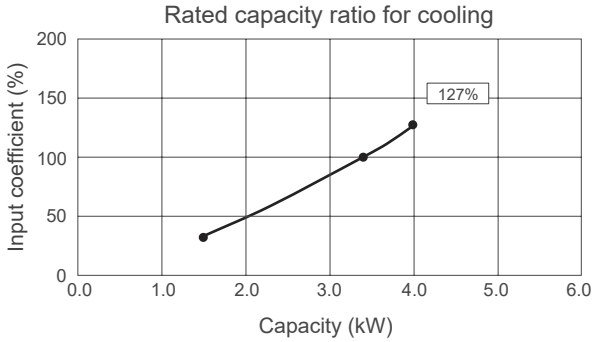
1-5-3-1. PZ3 U-36PZ3E5

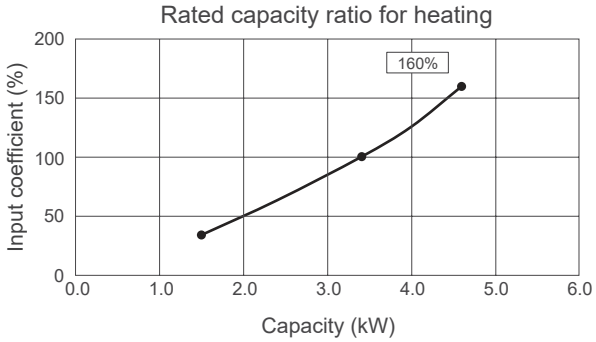
4-Way Cassette Type



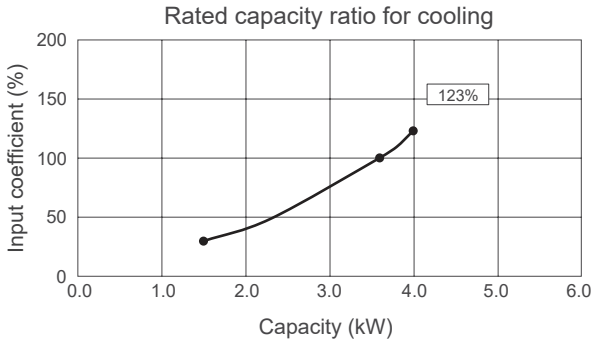


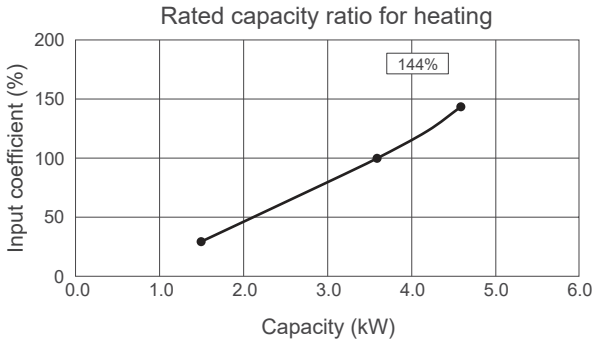
Middle Static Pressure Duct Type



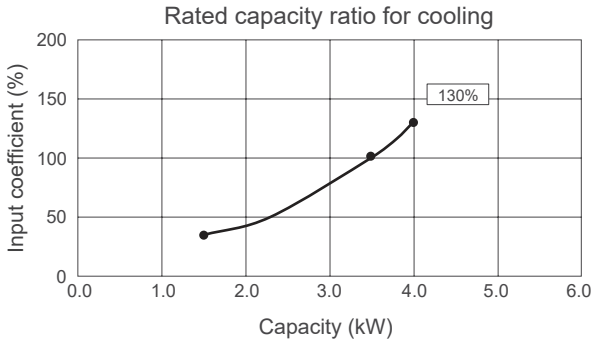


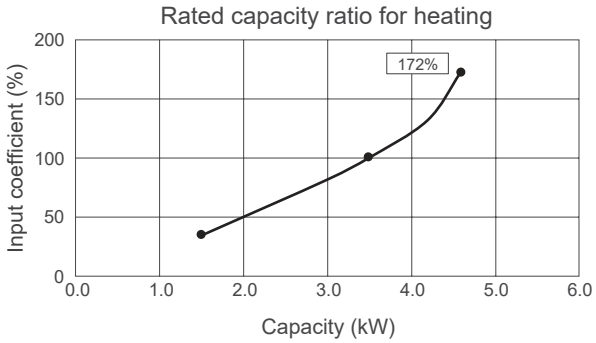
Wall Mounted Type





Ceiling Type

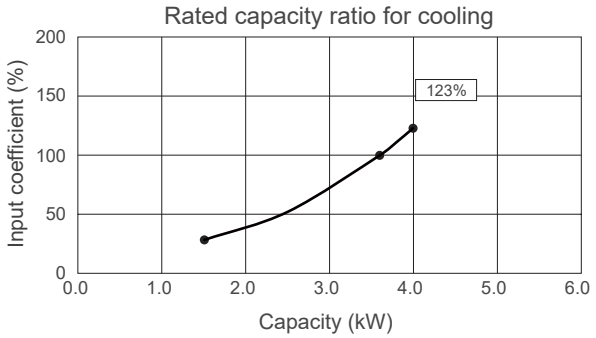


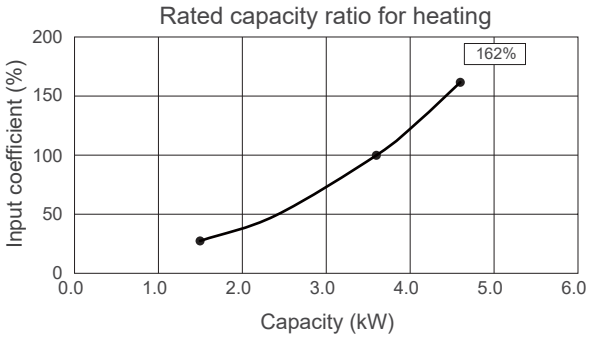


NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

1-5-3-1. PZ3 U-36PZ3E5
4-Way Cassette 60 × 60 Type



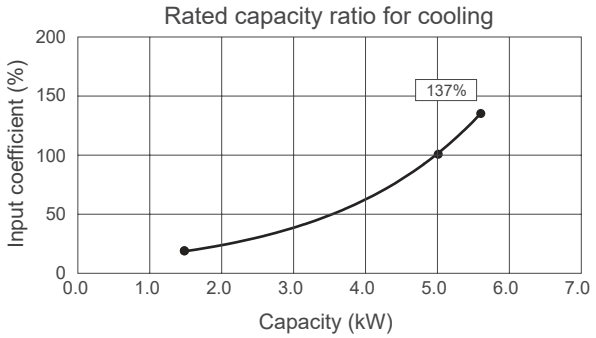


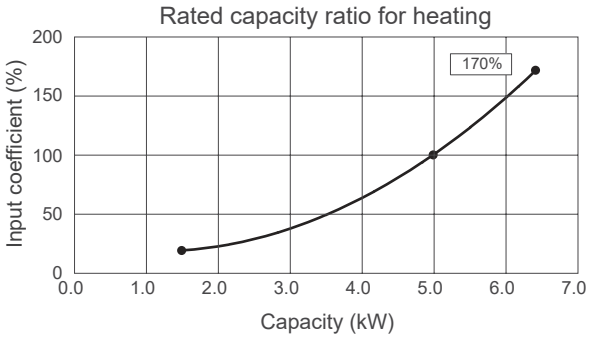
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

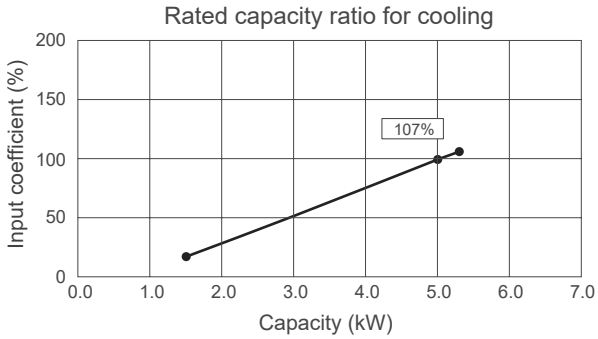
1-5-3-1. PZ3 U-50PZ3E5

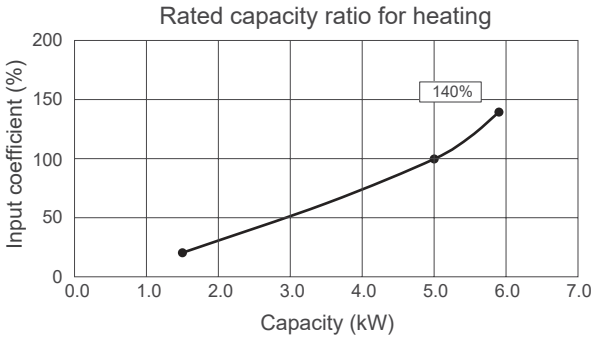
4-Way Cassette Type



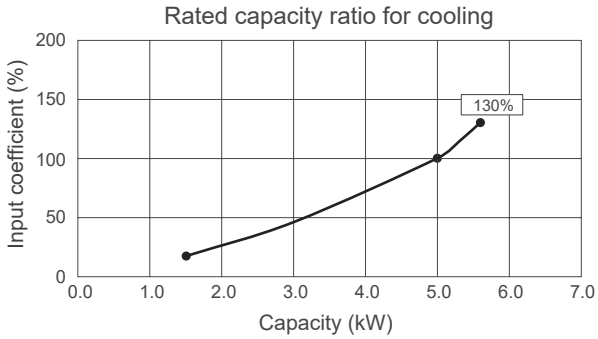


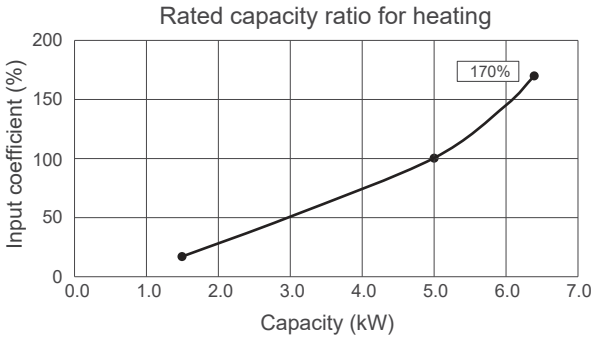
Middle Static Pressure Duct Type



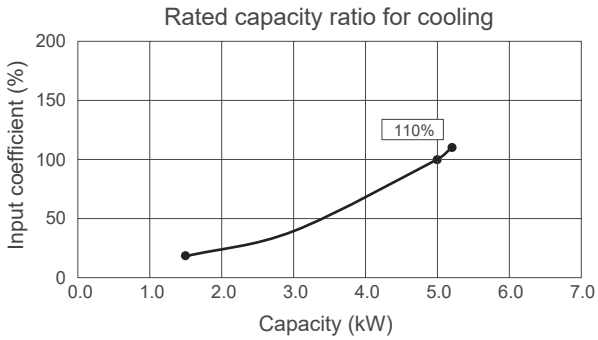


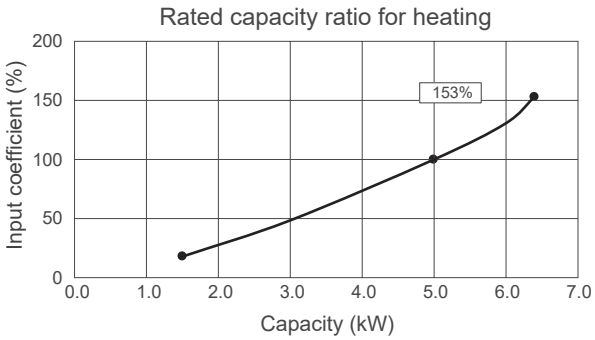
Wall Mounted Type





Ceiling Type

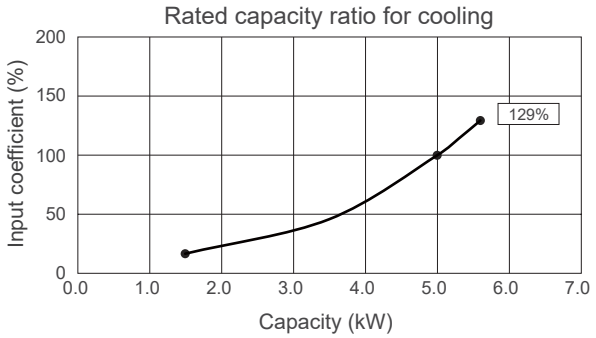


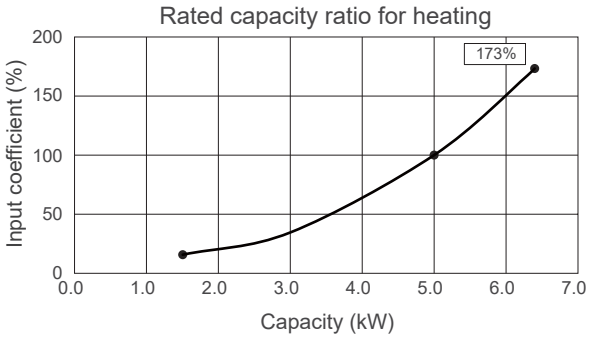


NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

1-5-3-1. PZ3 U-50PZ3E5
4-Way Cassette 60 × 60 Type



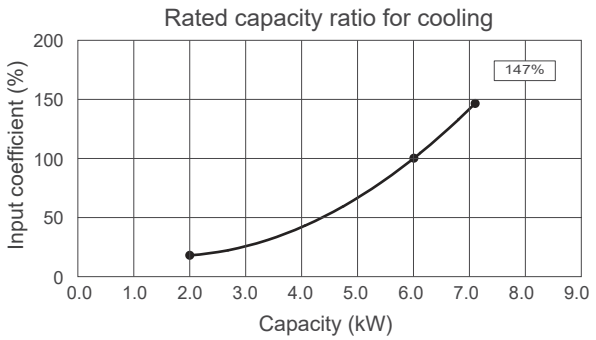


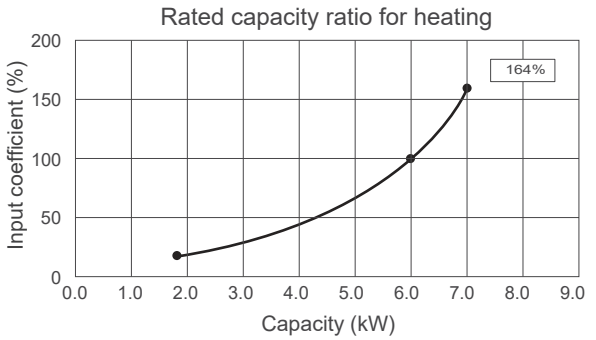
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

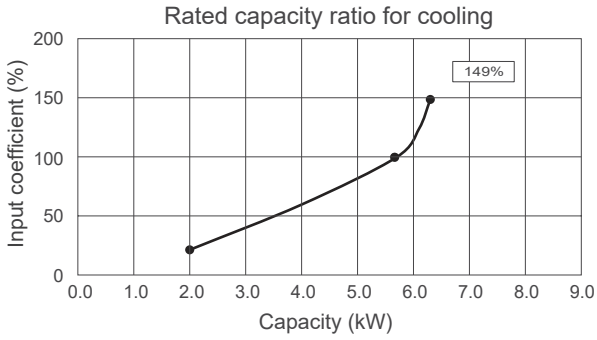
1-5-3-1. PZ3 U-60PZ3E5

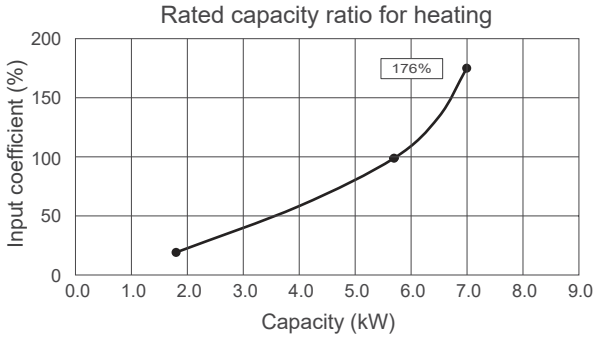
4-Way Cassette Type



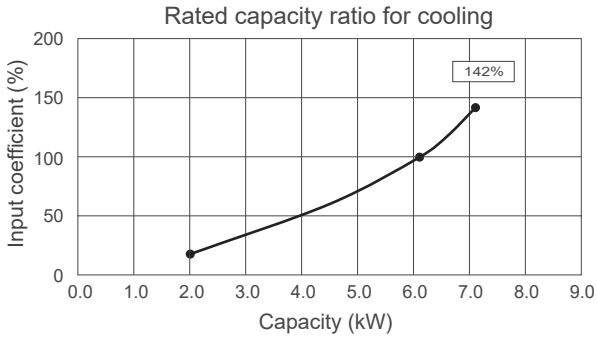


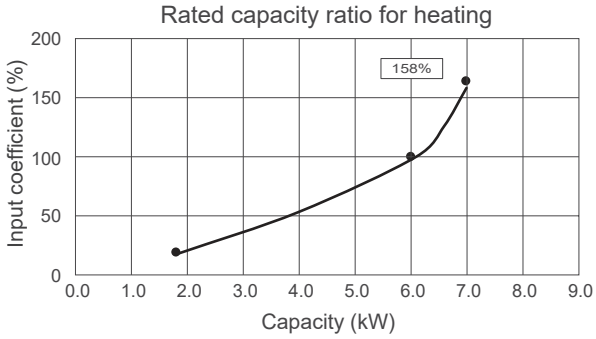
Middle Static Pressure Duct Type



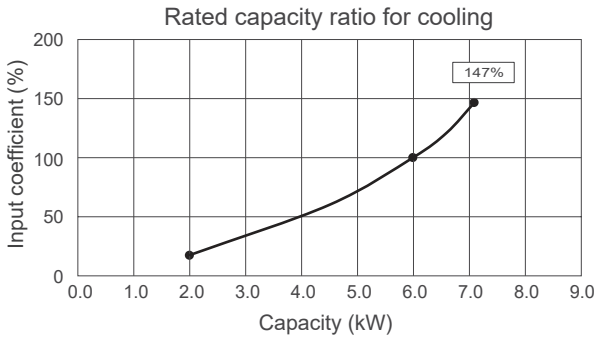


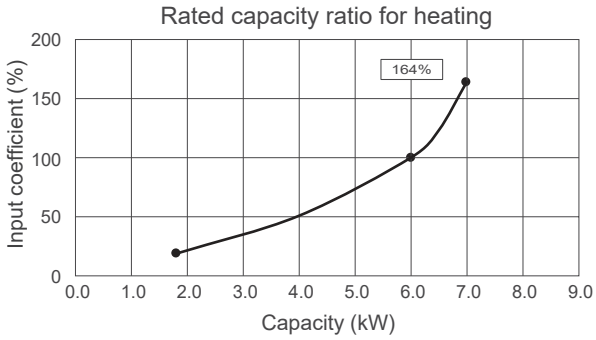
Wall Mounted Type





Ceiling Type

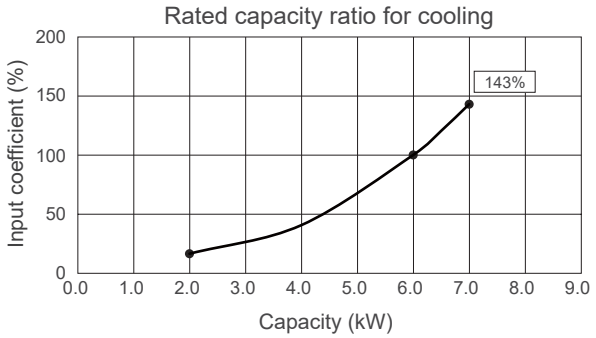


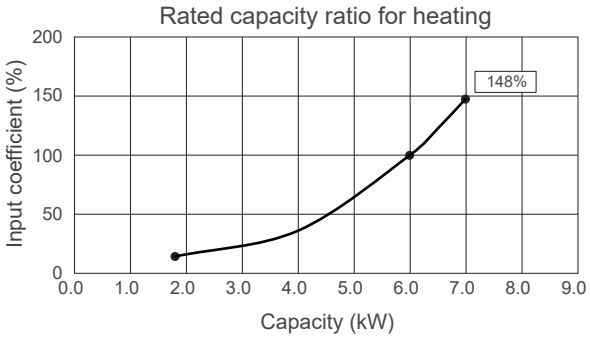


NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

1-5-3-1. PZ3 U-60PZ3E5
4-Way Cassette 60 × 60 Type



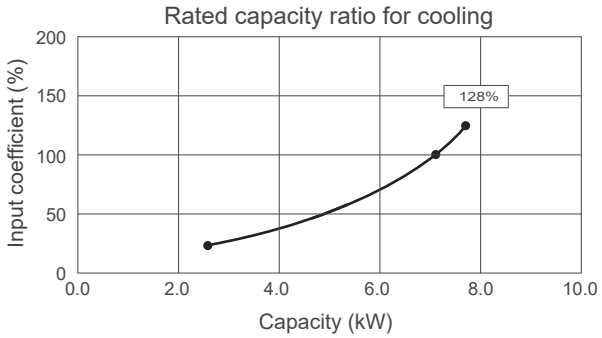


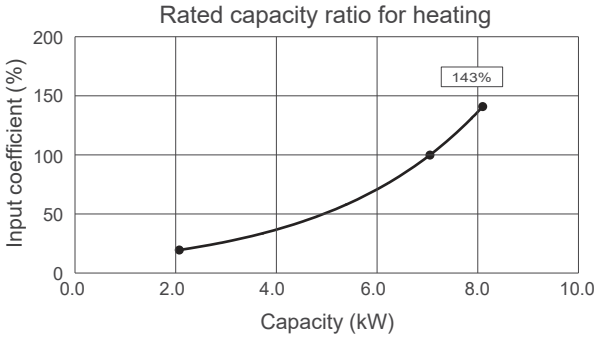
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

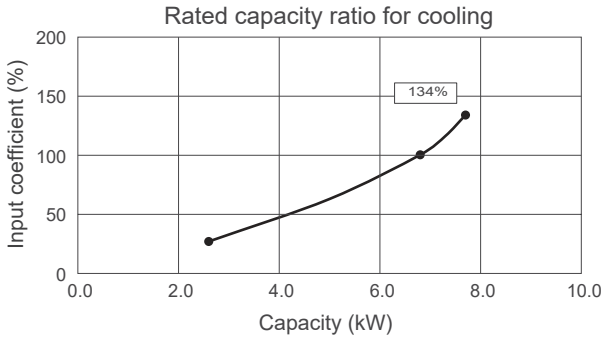
1-5-3-1. PZ3 U-71PZ3E5

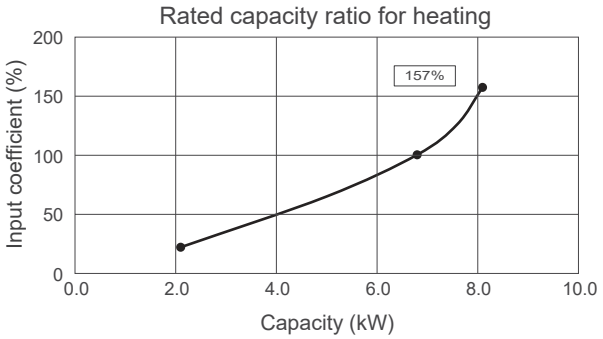
4-Way Cassette Type



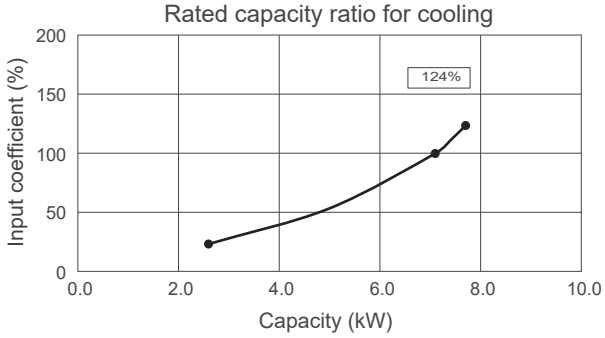


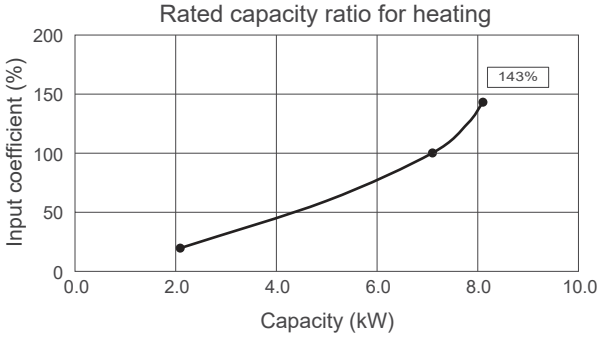
Middle Static Pressure Duct Type



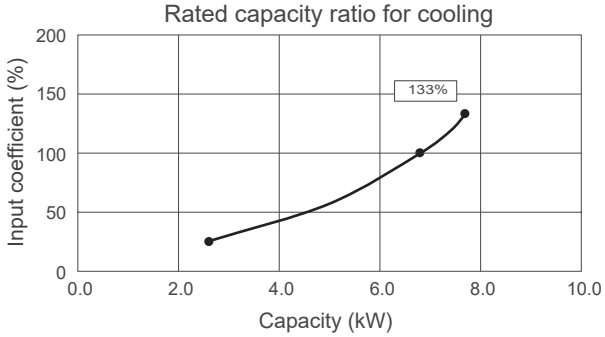


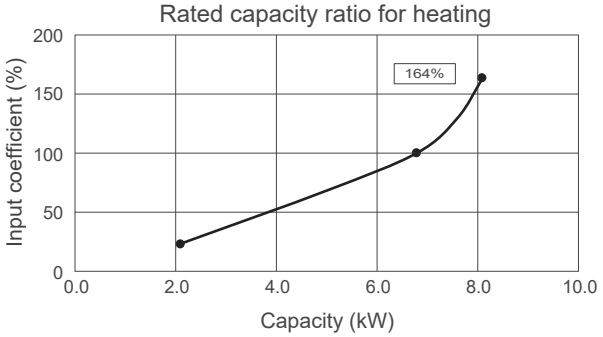
Wall Mounted Type





Ceiling Type



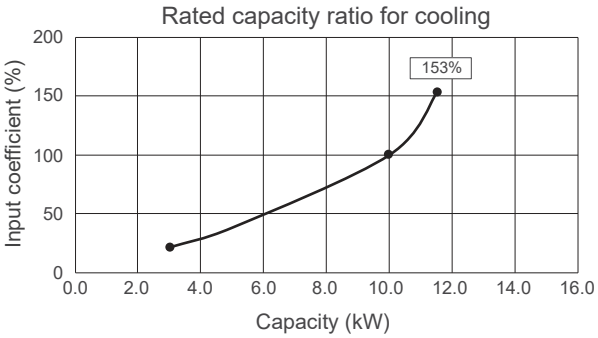


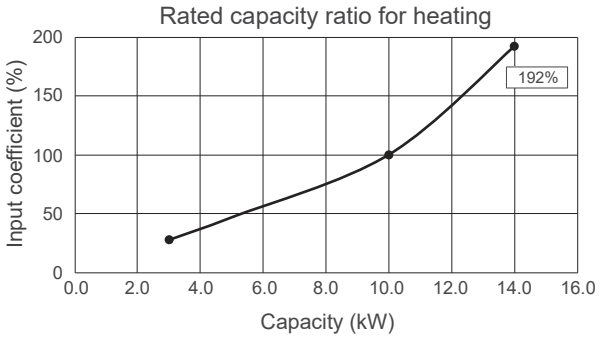
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

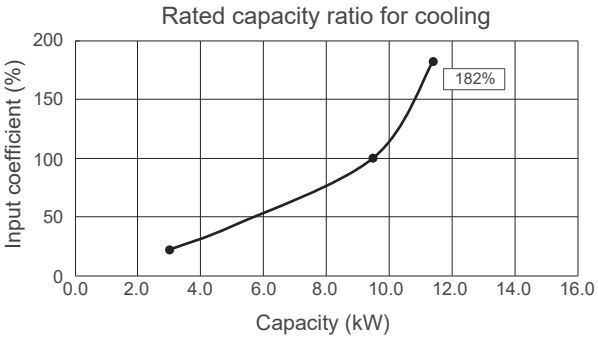
1-5-3-1. PZ3 U-100PZ3E5, U-100PZ3E8

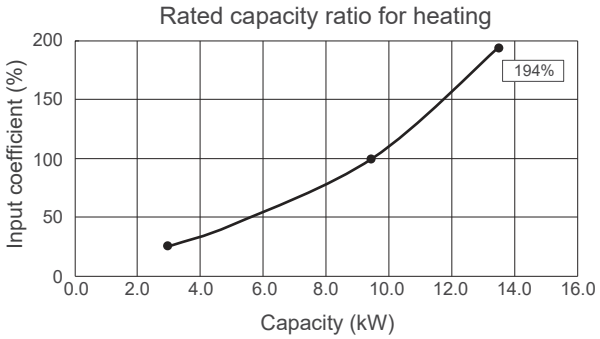
4-Way Cassette Type



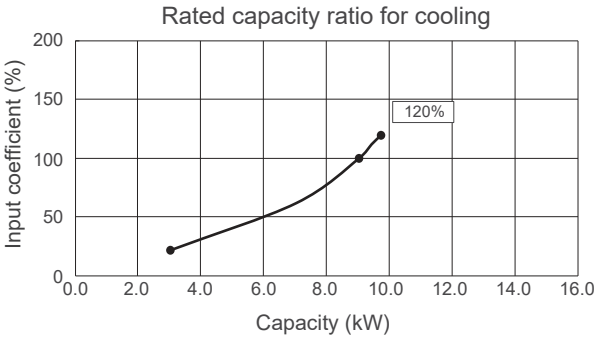


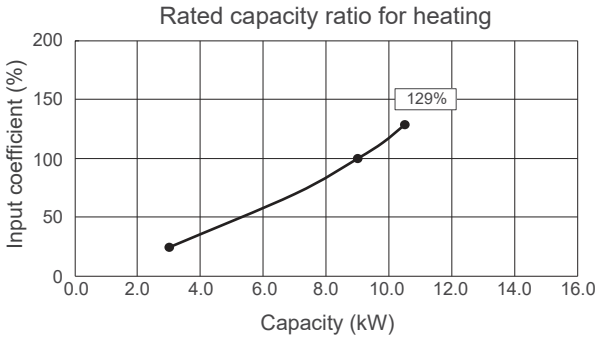
Middle Static Pressure Duct Type



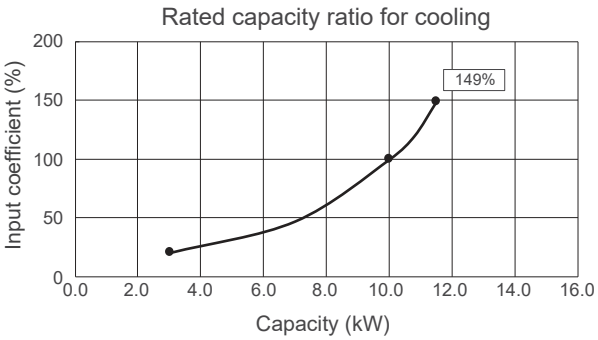


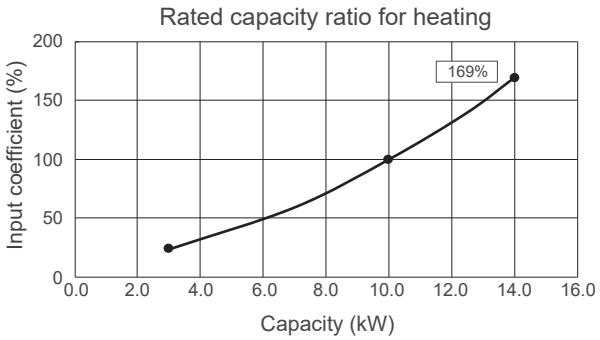
Wall Mounted Type





Ceiling Type



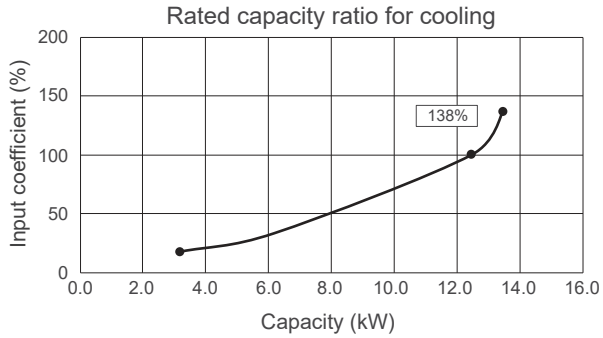


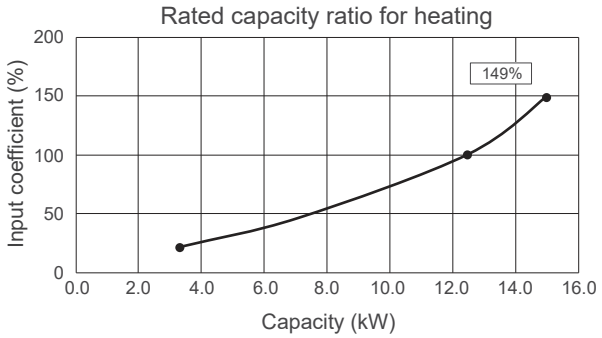
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

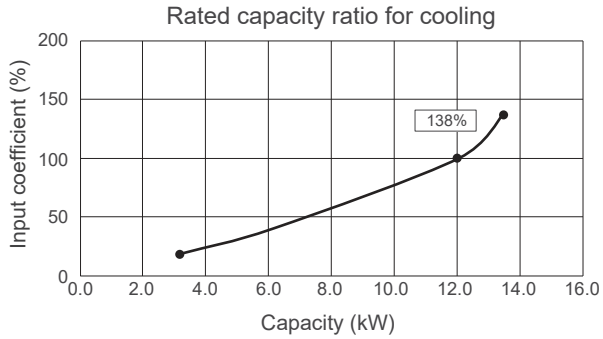
1-5-3-1. PZ3 U-125PZ3E5, U-125PZ3E8

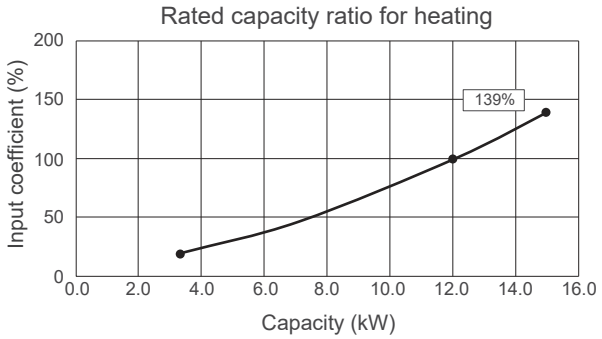
4-Way Cassette Type



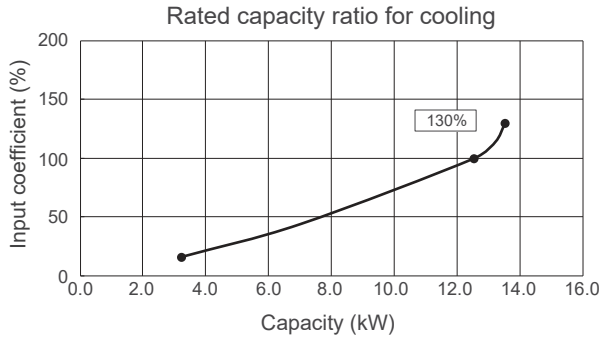


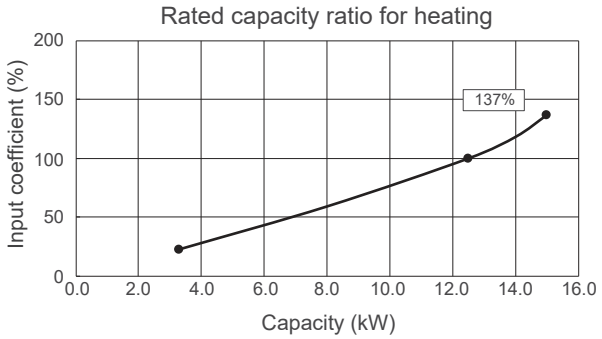
Middle Static Pressure Duct Type





Ceiling Type



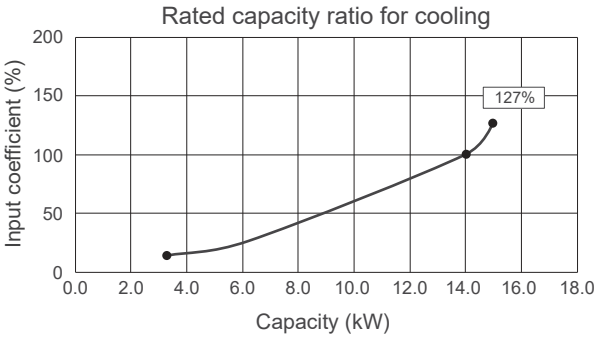


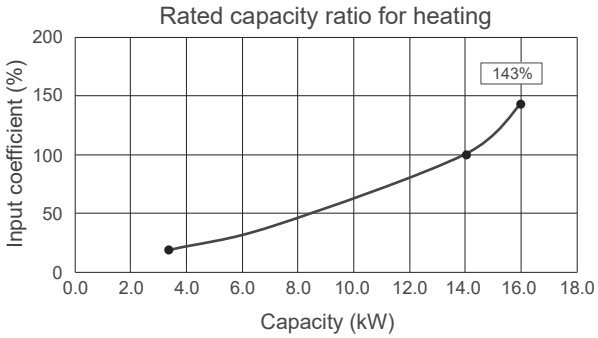
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

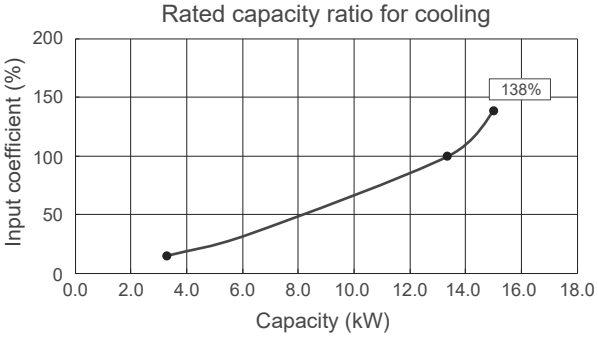
1-5-3-1. PZ3 U-140PZ3E5, U-140PZ3E8

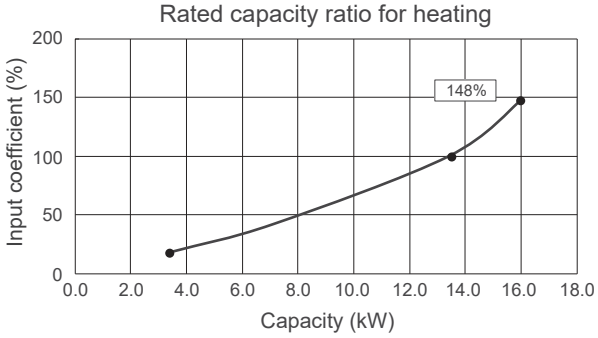
4-Way Cassette Type



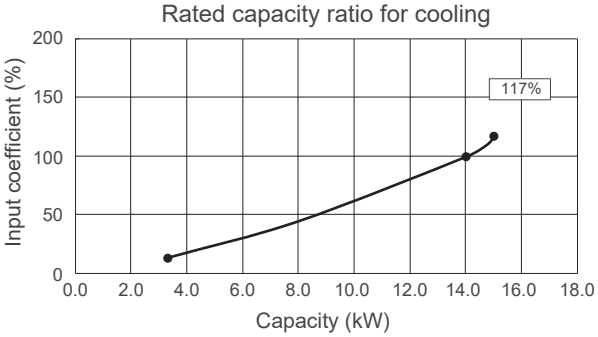


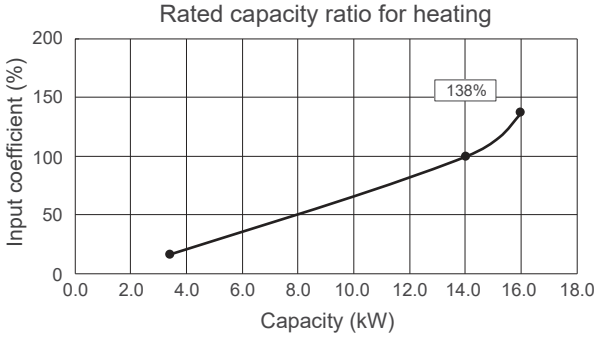
Middle Static Pressure Duct Type





Ceiling Type



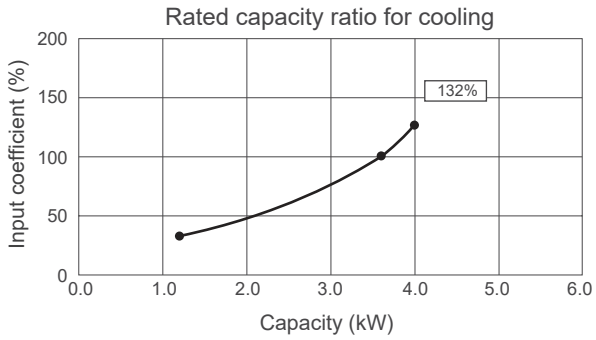


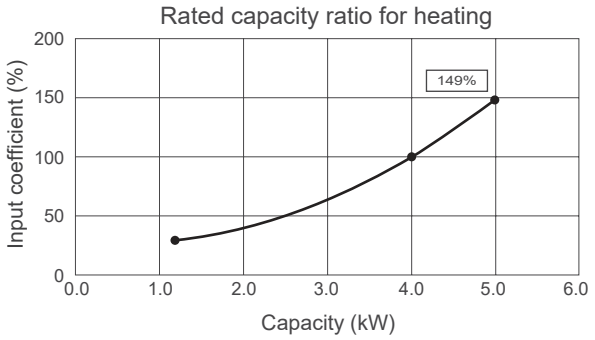
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

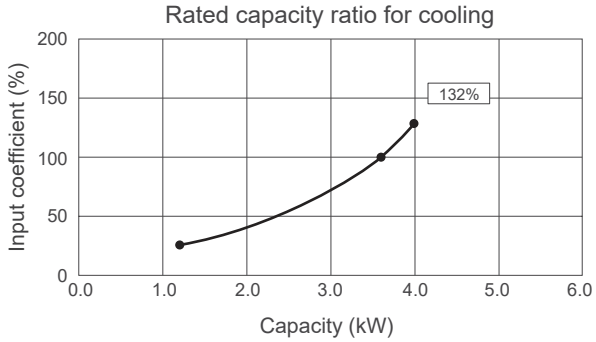
1-5-3-2. PZH3 U-36PZH3E5

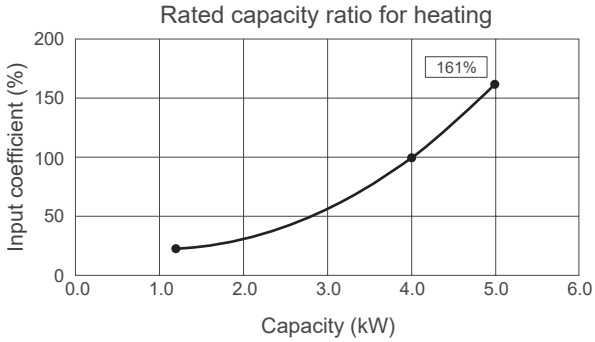
4-Way Cassette Type



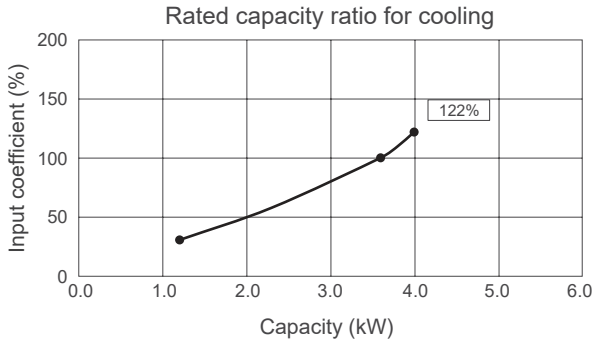


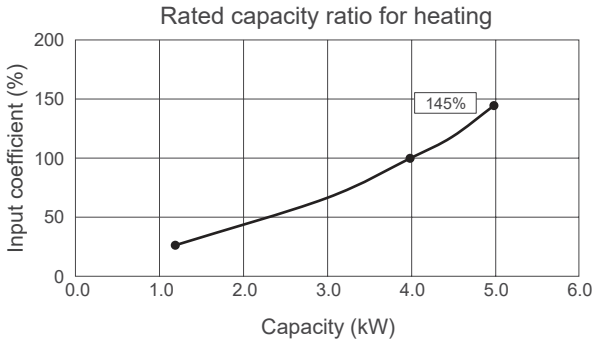
Middle Static Pressure Duct Type



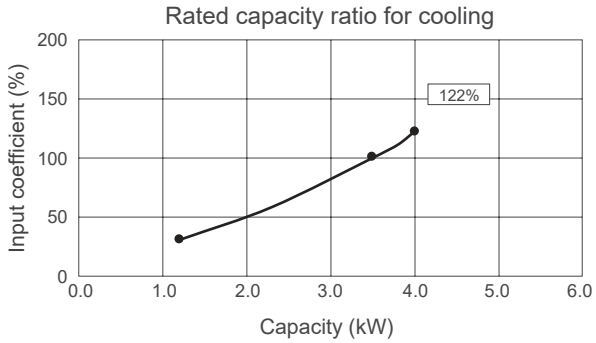


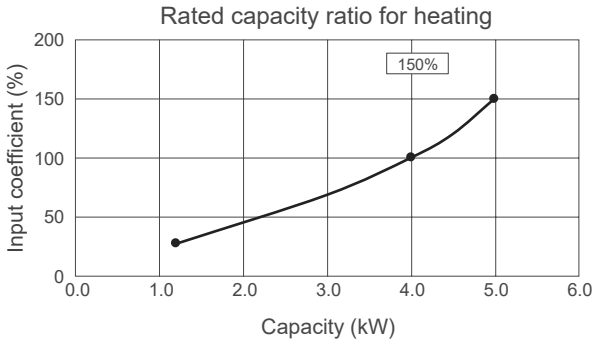
Wall Mounted Type





Ceiling Type



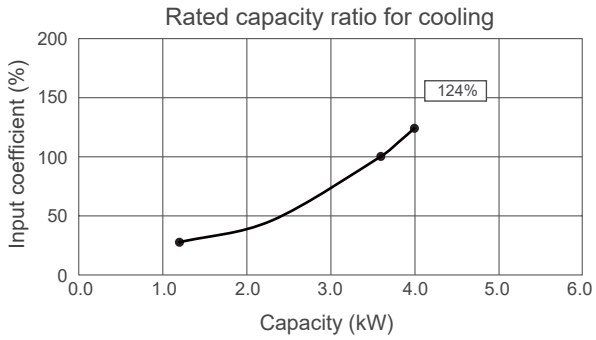


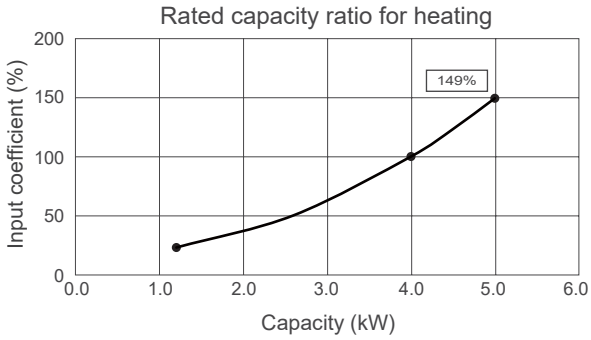
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

1-5-3-2. PZH3 U-36PZH3E5

4-Way Cassette 60 × 60 Type



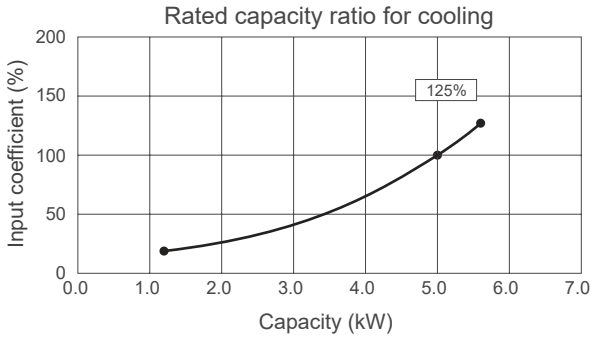


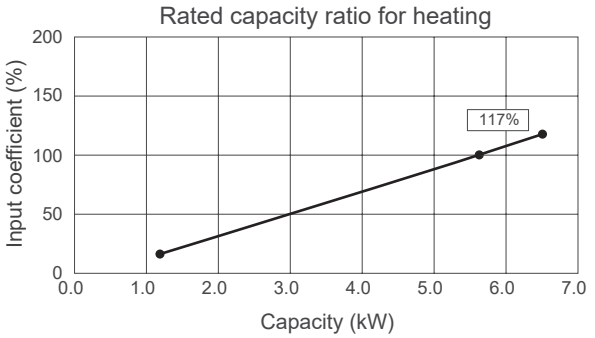
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

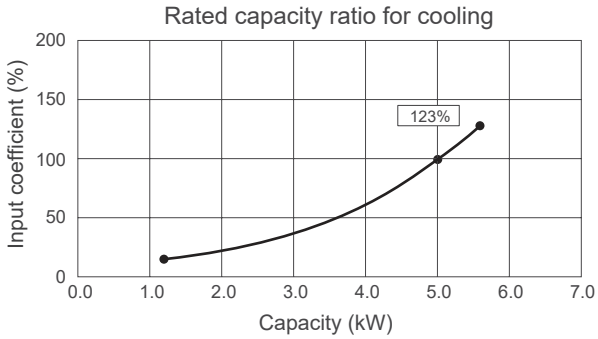
1-5-3-2. PZH3 U-50PZH3E5

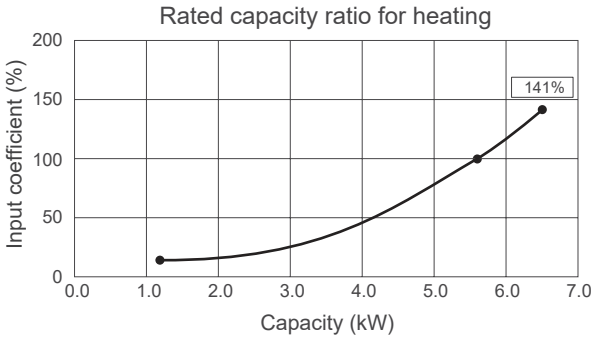
4-Way Cassette Type



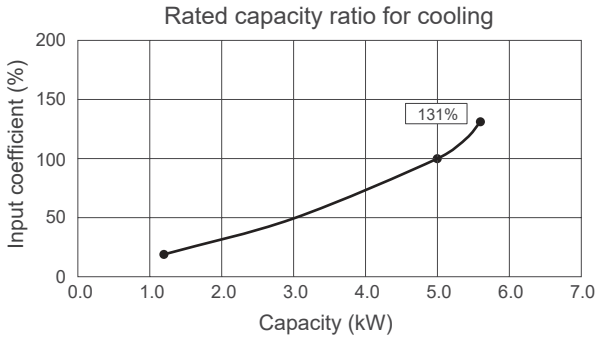


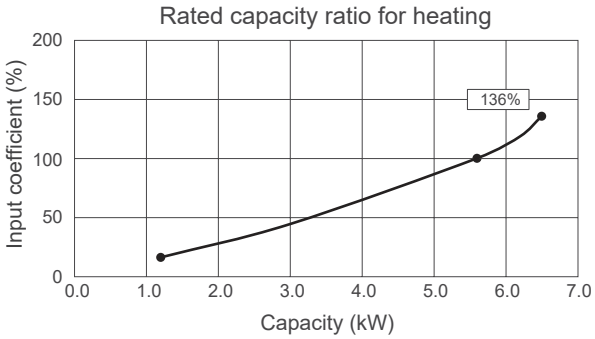
Middle Static Pressure Duct Type



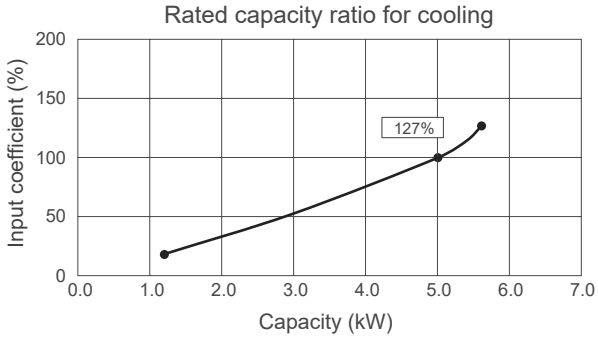


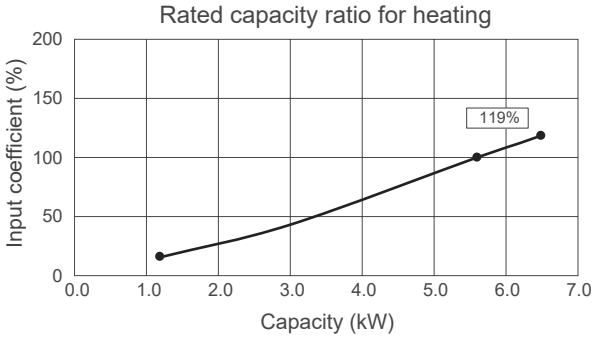
Wall Mounted Type





Ceiling Type



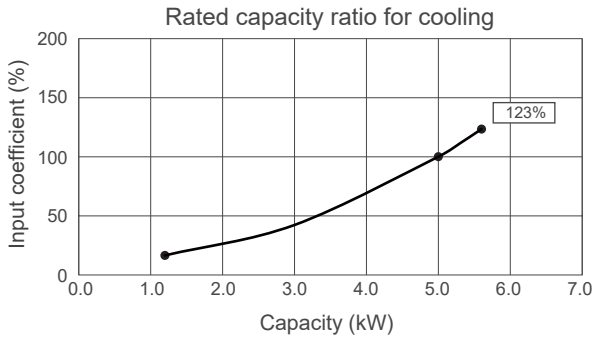


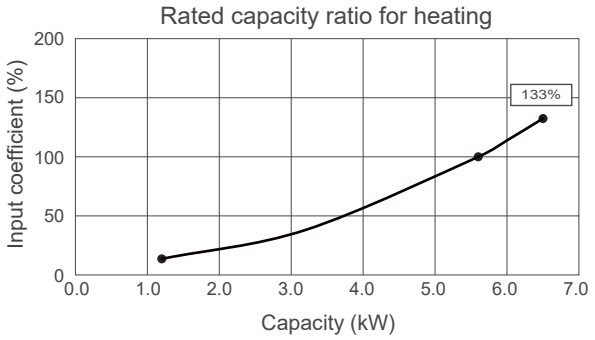
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

1-5-3-2. PZH3 U-50PZH3E5

4-Way Cassette 60 × 60 Type



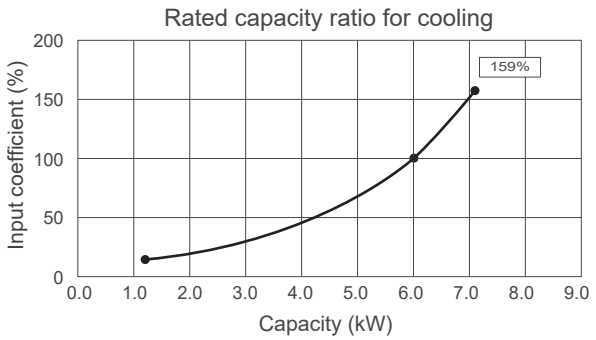


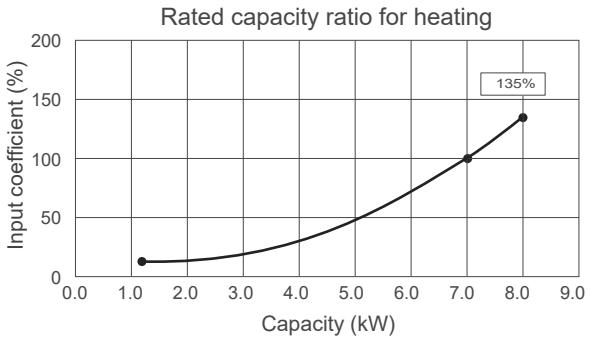
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

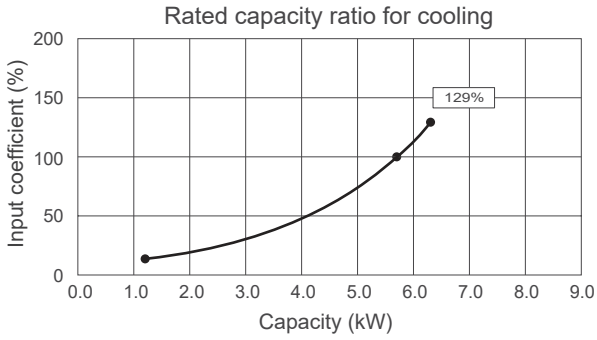
1-5-3-2. PZH3 U-60PZH3E5

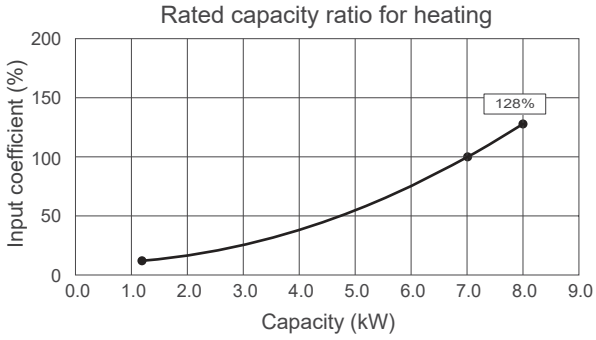
4-Way Cassette Type



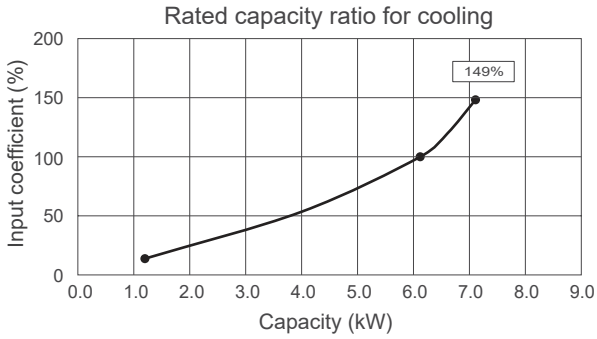


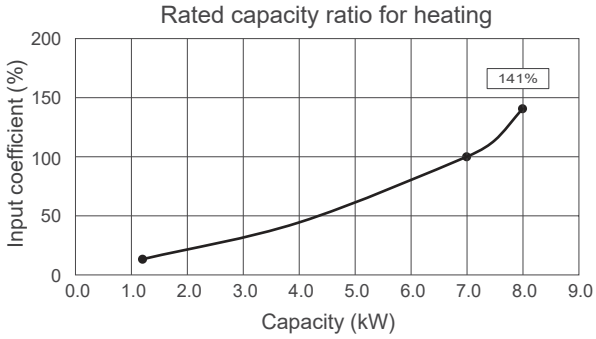
Middle Static Pressure Duct Type



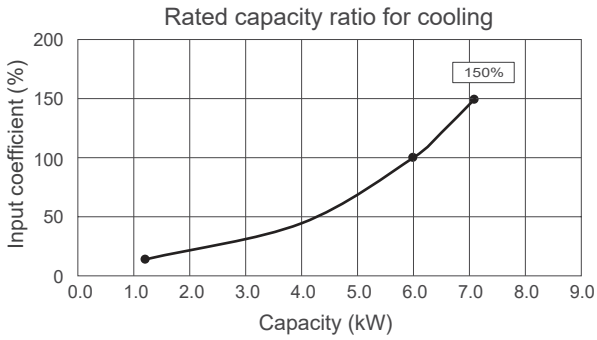


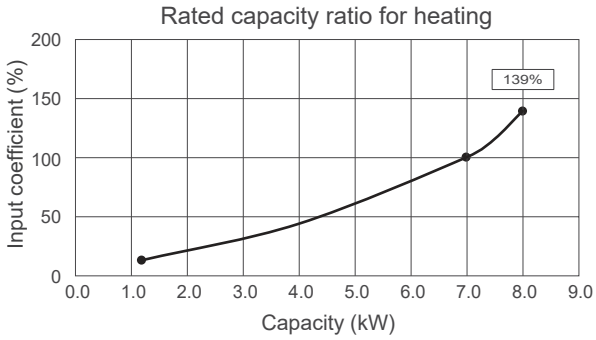
Wall Mounted Type





Ceiling Type



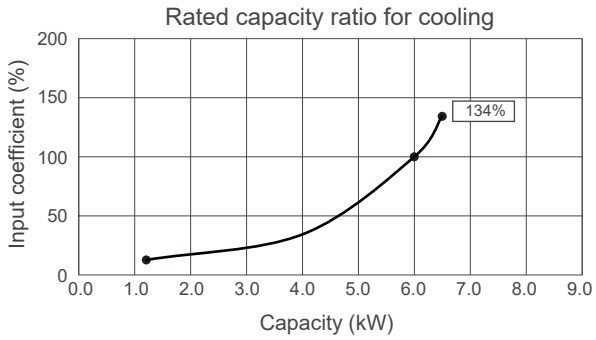


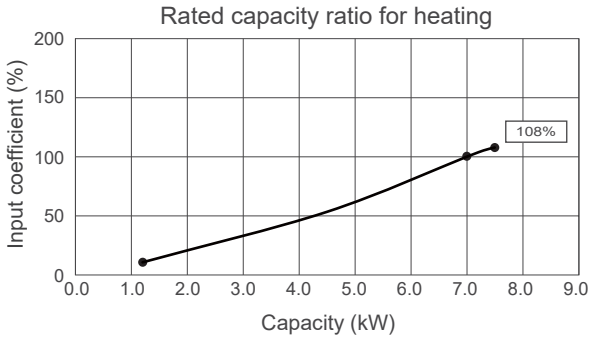
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

1-5-3-2. PZH3 U-60PZH3E5

4-Way Cassette 60 × 60 Type



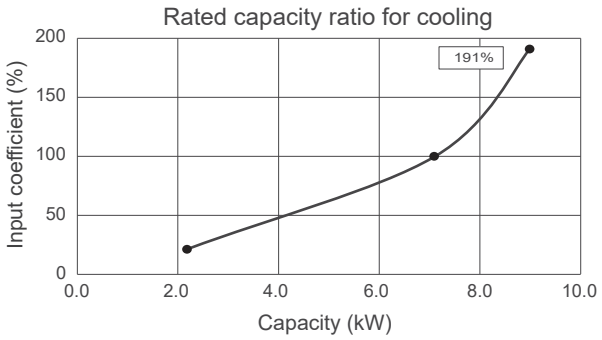


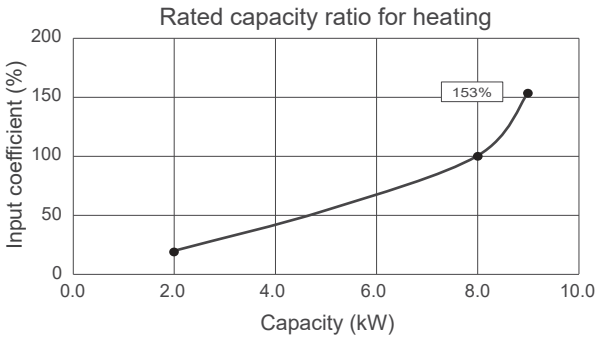
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

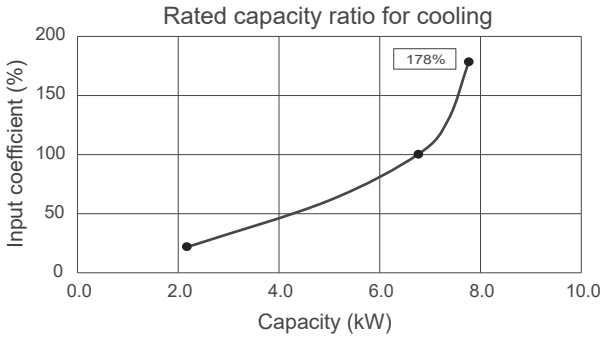
1-5-3-2. PZH3 U-71PZH3E5, U-71PZH3E8

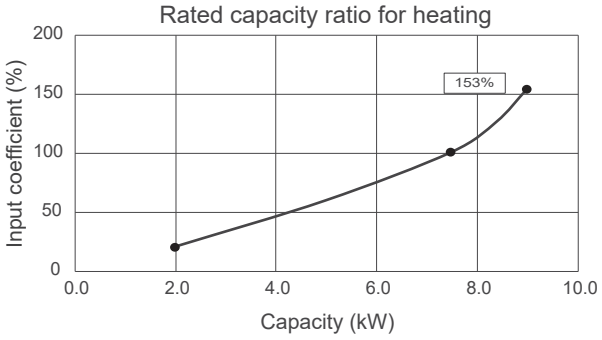
4-Way Cassette Type



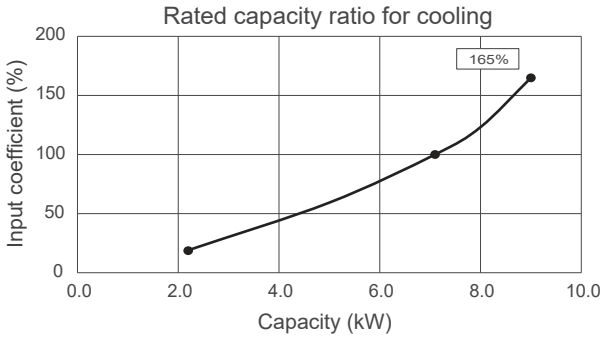


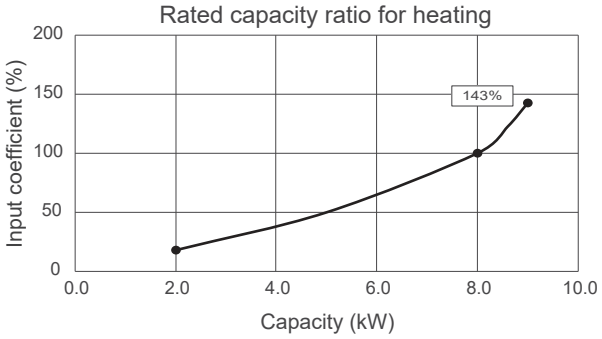
Middle Static Pressure Duct Type



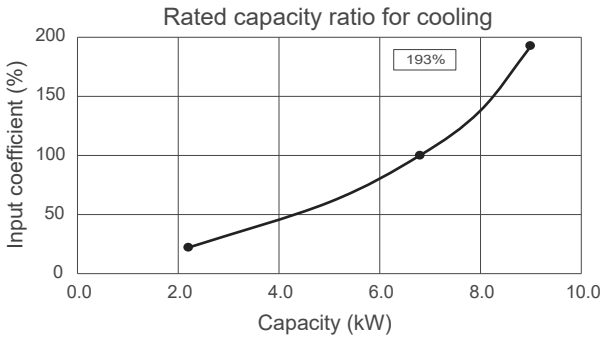


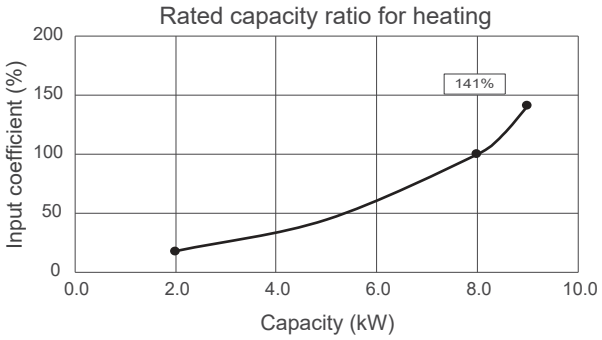
Wall Mounted Type





Ceiling Type



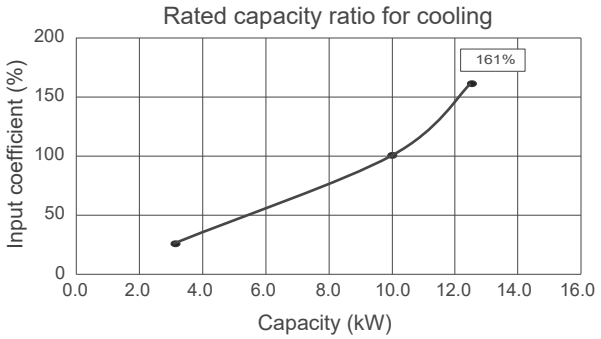


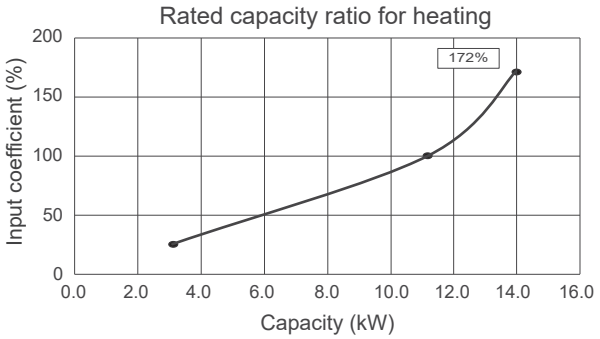
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

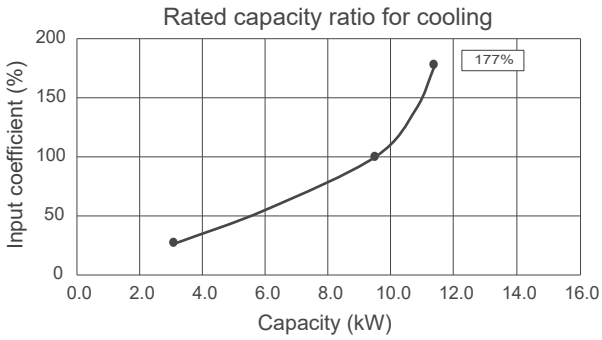
1-5-3-2. PZH3 U-100PZH3E5, U-100PZH3E8

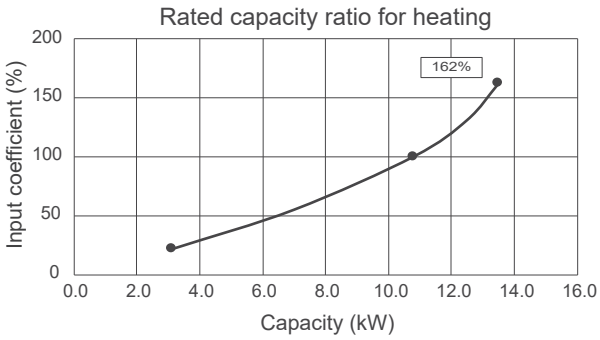
4-Way Cassette Type



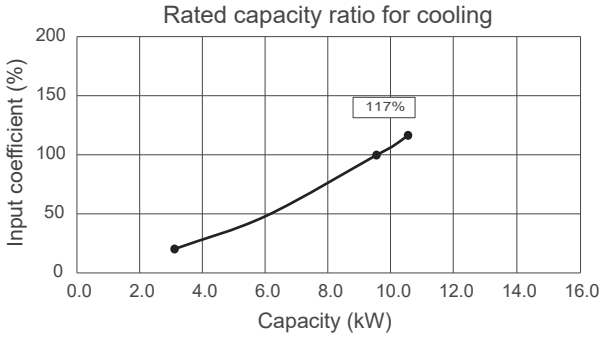


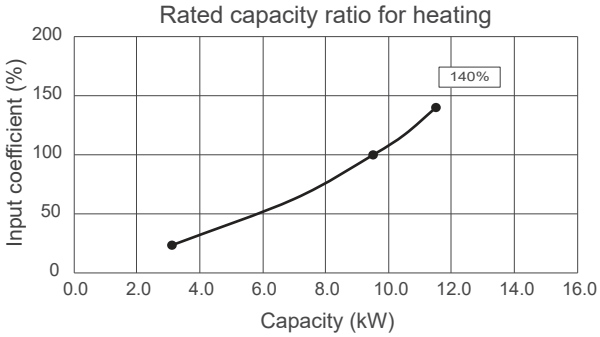
Middle Static Pressure Duct Type



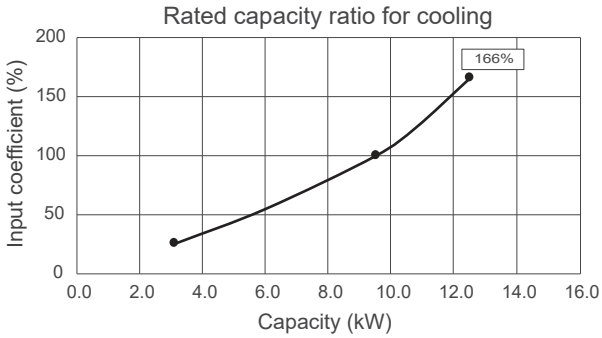


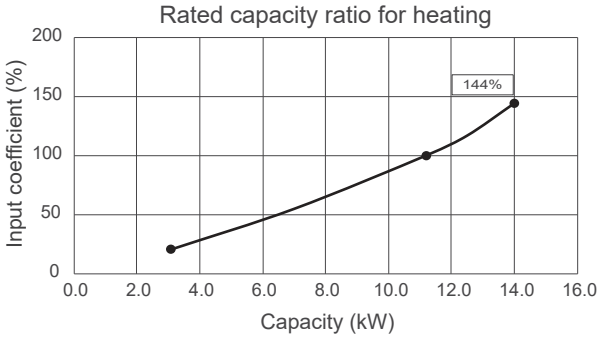
Wall Mounted Type





Ceiling Type



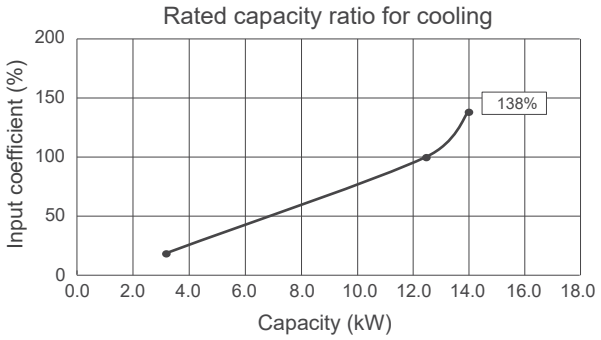


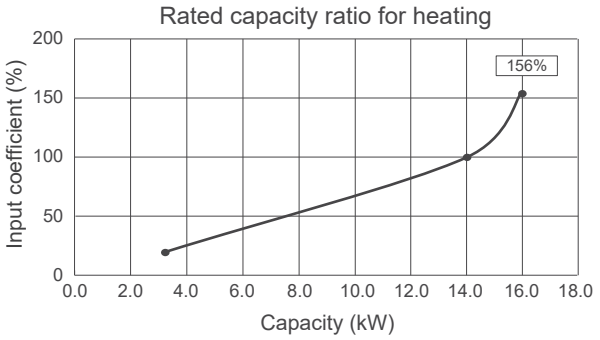
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

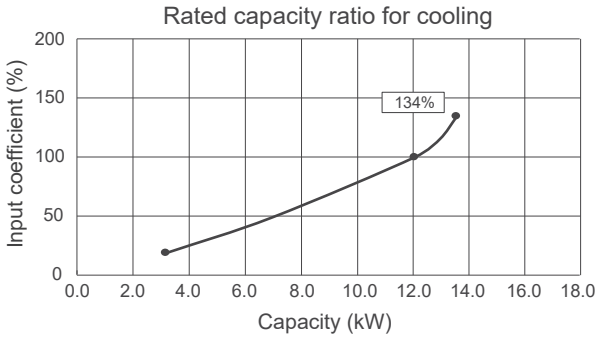
1-5-3-2. PZH3 U-125PZH3E5, U-125PZH3E8

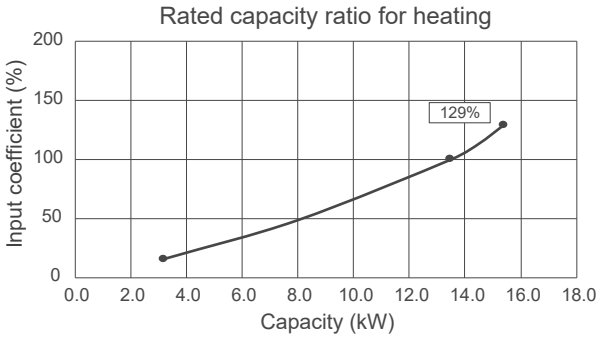
4-Way Cassette Type



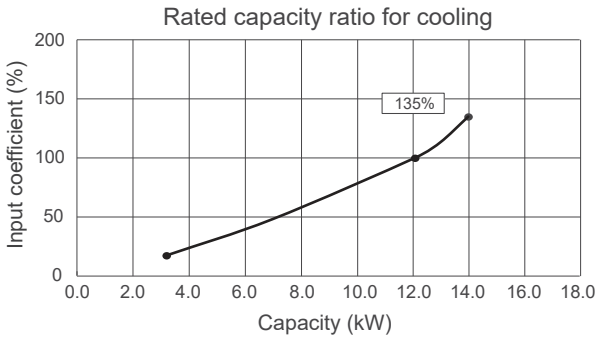


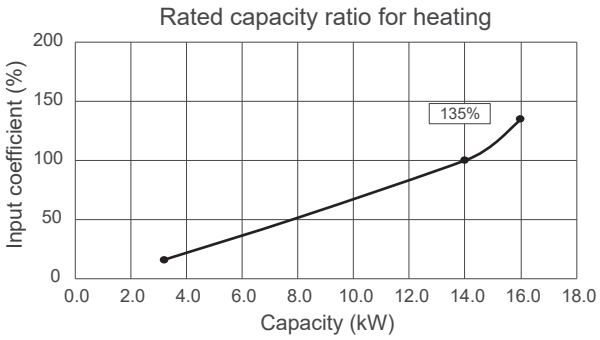
Middle Static Pressure Duct Type





Ceiling Type



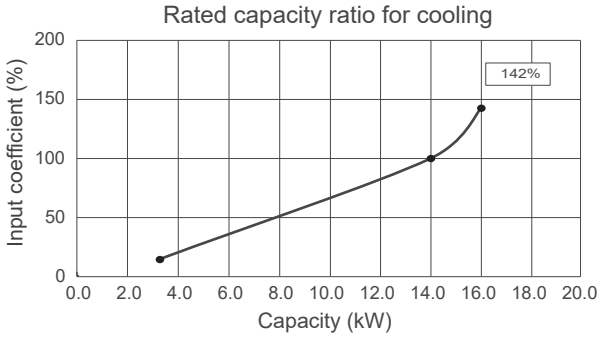


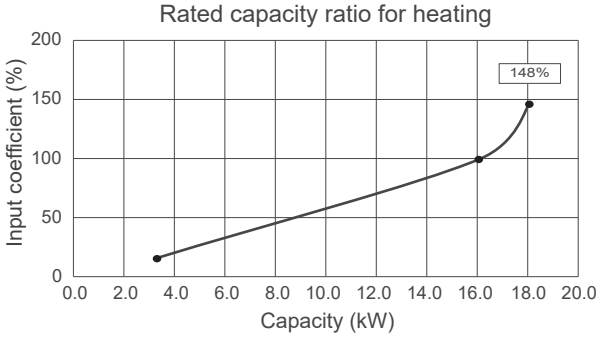
NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

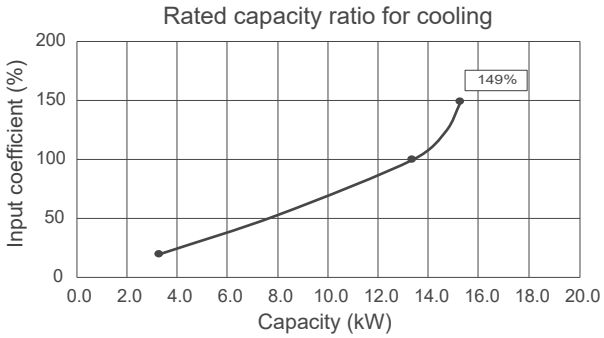
1-5-3-2. PZH3 U-140PZH3E5, U-140PZH3E8

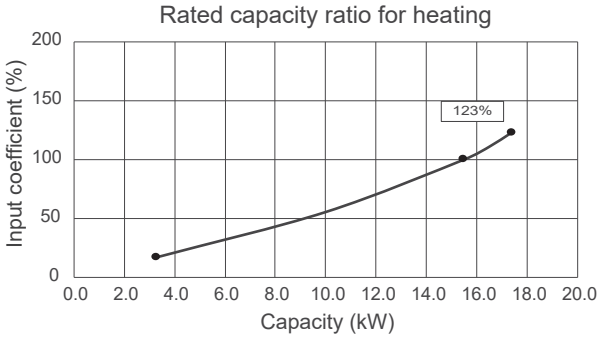
4-Way Cassette Type



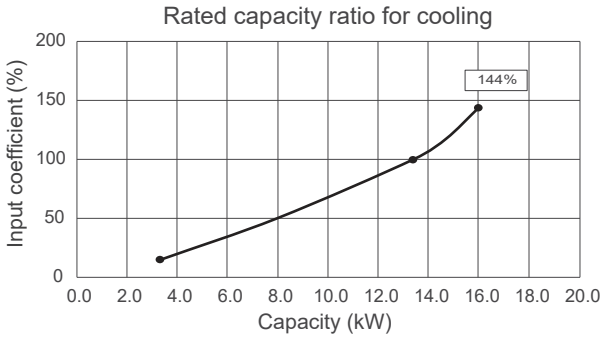


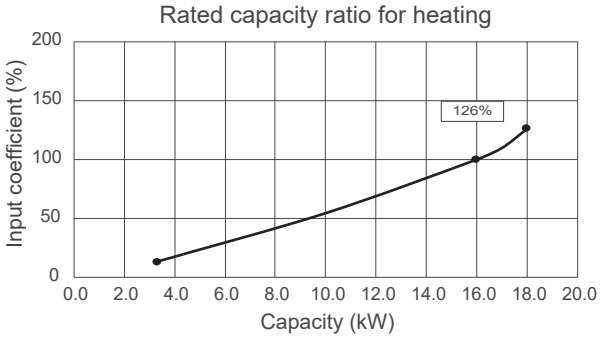
Middle Static Pressure Duct Type





Ceiling Type





NOTE

1. Each type of the characteristics shows the value under the following conditions.
   Equivalent tubing length : 5m
   Difference of elevation : 0m
   Wind speed : High

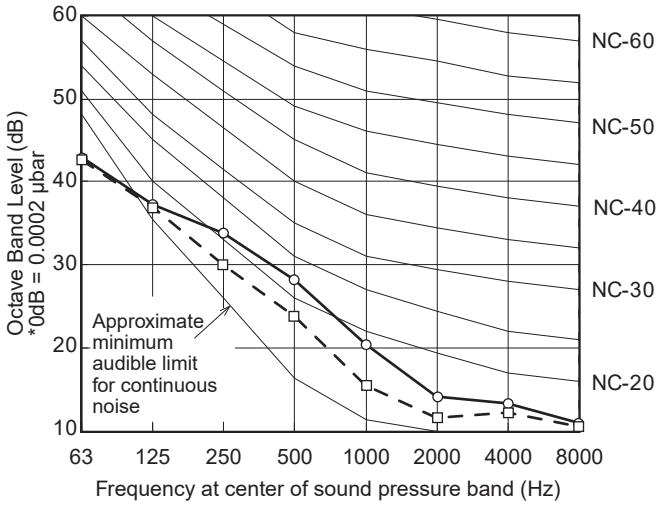
1-6. Noise Criterion Curves

1-6-1. Indoor Unit

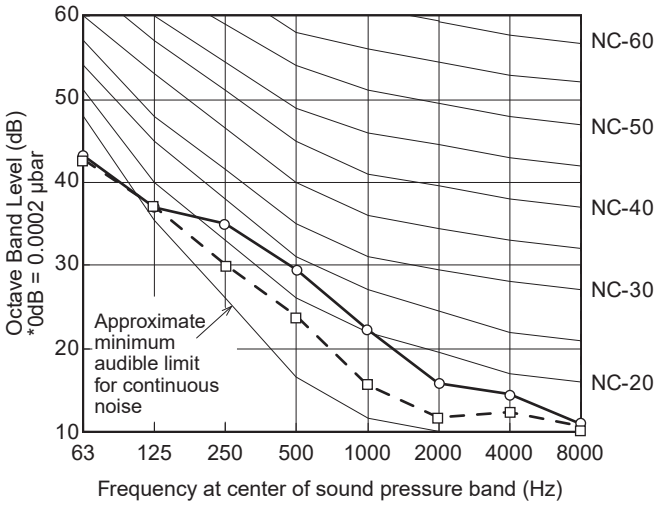
1-6-1-1. 4-Way Cassette Type

High
Low

MODEL	: S-3650PU3E(36)
SOUND LEVEL	: High 30 dB(A)
	Low 27 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

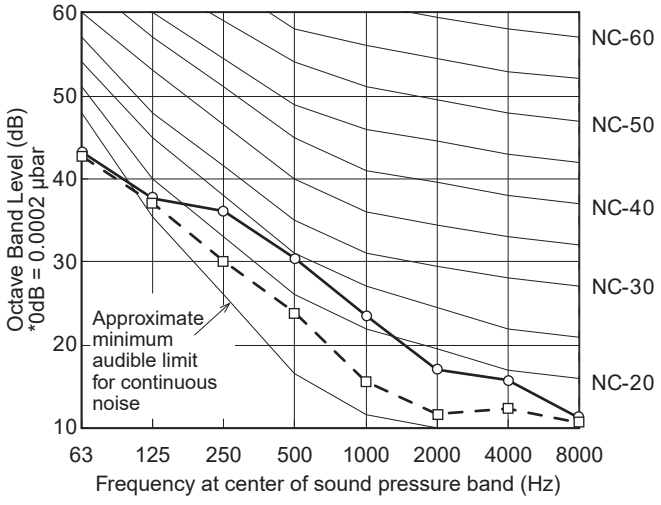


MODEL	: S-3650PU3E(45)
SOUND LEVEL	: High 31 dB(A)
	Low 27 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

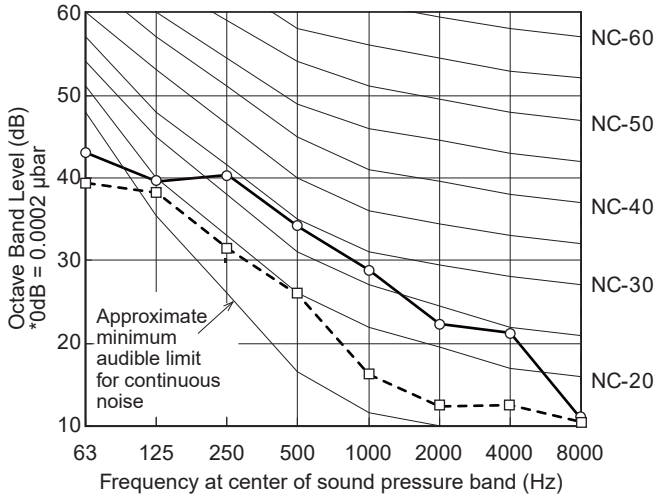


* For S-3650PU3E (36) and S-3650PU3E (45), see the Combination Table items 36 and 45 on page 20 to 22.

MODEL	: S-3650PU3E(50)
SOUND LEVEL	: High 32 dB(A)
	Low 27 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: S-6071PU3E(60)
SOUND LEVEL	: High 36 dB(A)
	Low 28 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

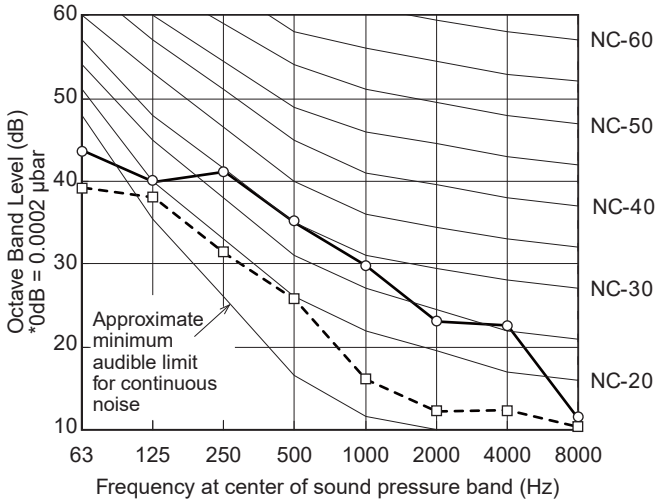


* For S-3650PU3E (50) and S-6071PU3E (60), see the Combination Table items 50 and 60 on page 20 to 22.

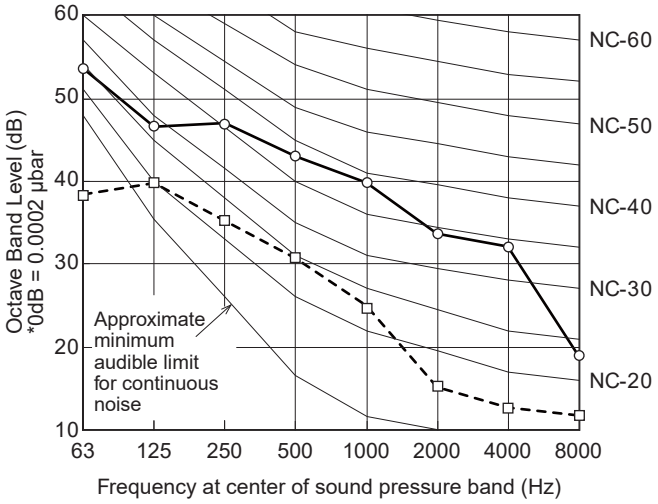
1-6-1-1. 4-Way Cassette Type

High
Low

MODEL	: S-6071PU3E (71)
SOUND LEVEL	: High 37 dB(A)
	Low 28 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

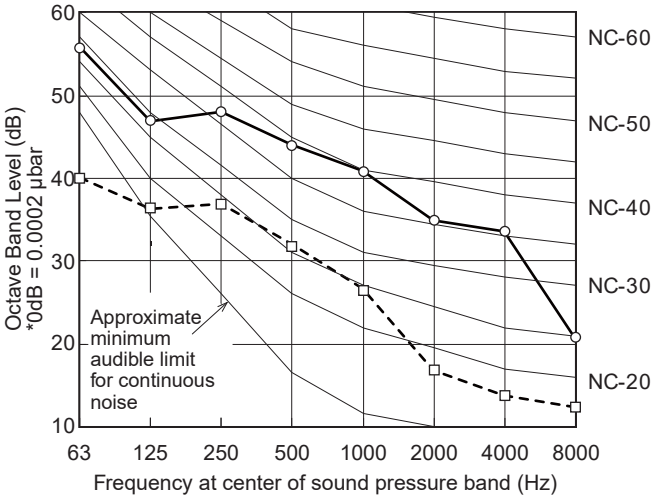


MODEL	: S-1014PU3E (100)
SOUND LEVEL	: High 45 dB(A)
	Low 32 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

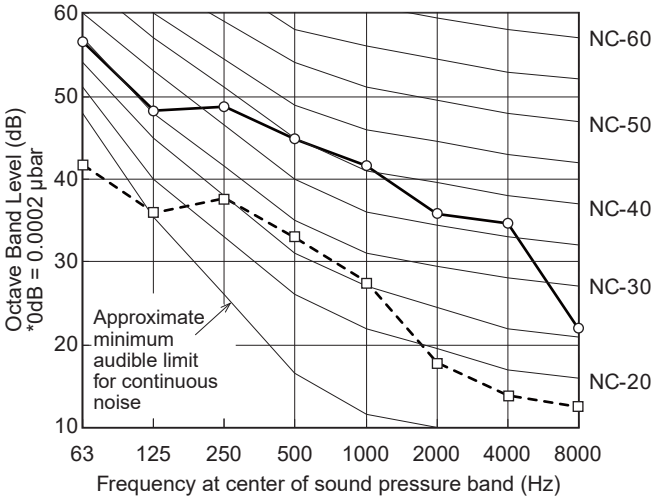


* For S-6071PU3E (71) and S-1014PU3E (100), see the Combination Table items 71 and 100 on page 20 to 22.

MODEL	: S-1014PU3E (125)
SOUND LEVEL	: High 46 dB(A)
	Low 33 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: S-1014PU3E (140)
SOUND LEVEL	: High 47 dB(A)
	Low 34 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



* For S-1014PU3E (125) and S-1014PU3E (140), see the Combination Table items 125 and 140 on page 20 to 22.

REMARKS:

1. Value obtained in the actual place where the unit is installed may be slightly higher than the values shown in this graph because of the conditions of operation, the structure of the building, the background noise and other factors.
2. The test results were obtained from an anechoic room.

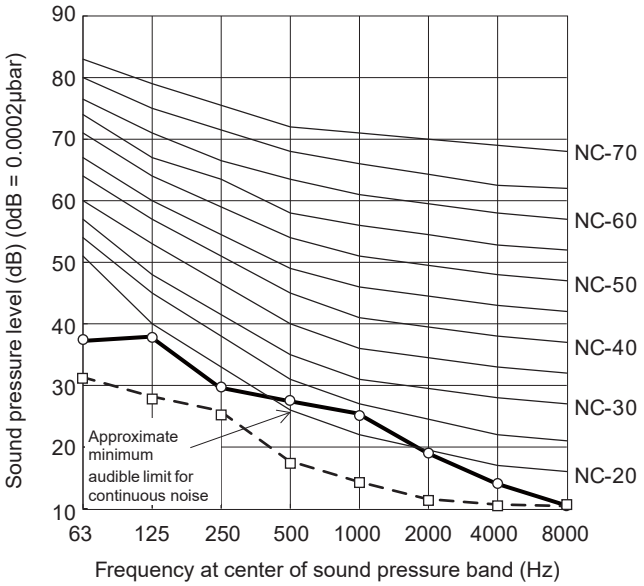
NOTE

To evaluate “Noise level” the maximum number of the measured OCTAVE BAND SOUND PRESSURE LEVEL is used.
Read the number on each BAND CENTER FREQUENCIES (horizontal axis) ranging from 63 Hz to 8000 Hz and select the maximum value (vertical axis) among them.

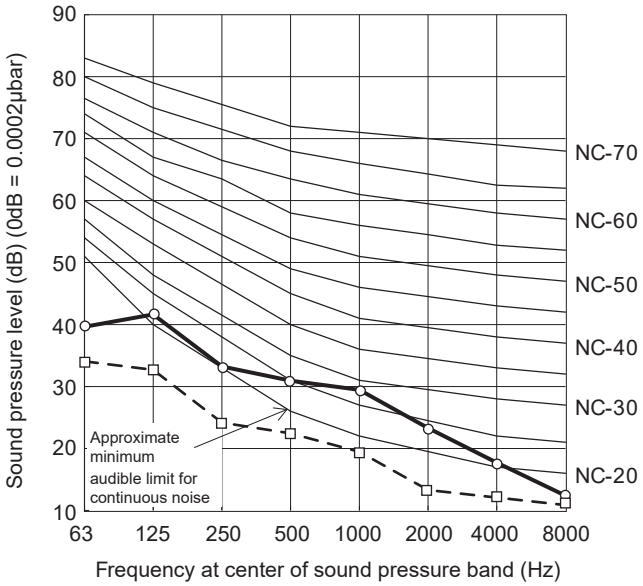
1-6-1-2. Middle Static Pressure Duct Type

High
Low

MODEL	: S-3650PF3E(36), S-3650PF3E(45)
SOUND LEVEL	: High 30 dB(A)
	Low 22 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

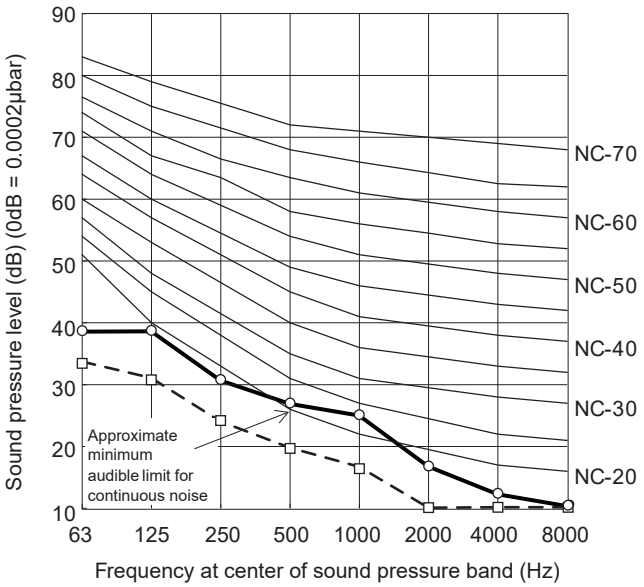


MODEL	: S-3650PF3E(50)
SOUND LEVEL	: High 34 dB(A)
	Low 25 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

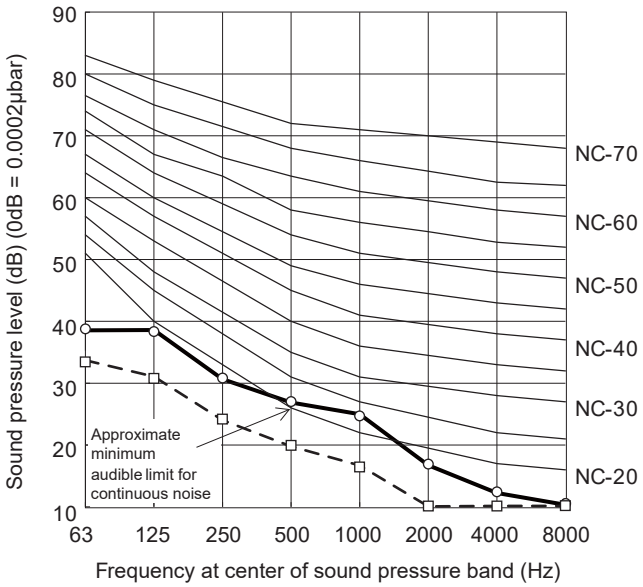


* For S-3650PF3E (36) , S-3650PF3E (45) and S-3650PF3E (50), see the Combination Table items 36, 45 and 50 on page 20 to 22.

MODEL	: S-6071PF3E(60)
SOUND LEVEL	: High 30 dB(A)
	Low 23 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: S-6071PF3E(71)
SOUND LEVEL	: High 30 dB(A)
	Low 23 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

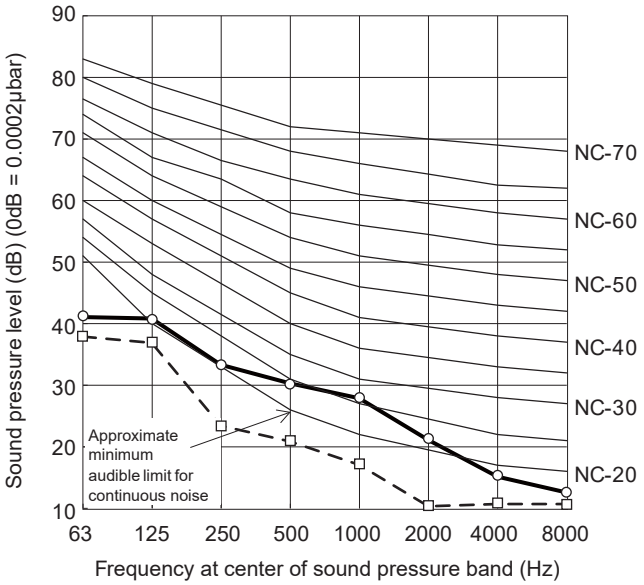


* For S-6071PF3E (60) and S-6071PF3E (71), see the Combination Table items 60 and 71 on page 20 to 22.

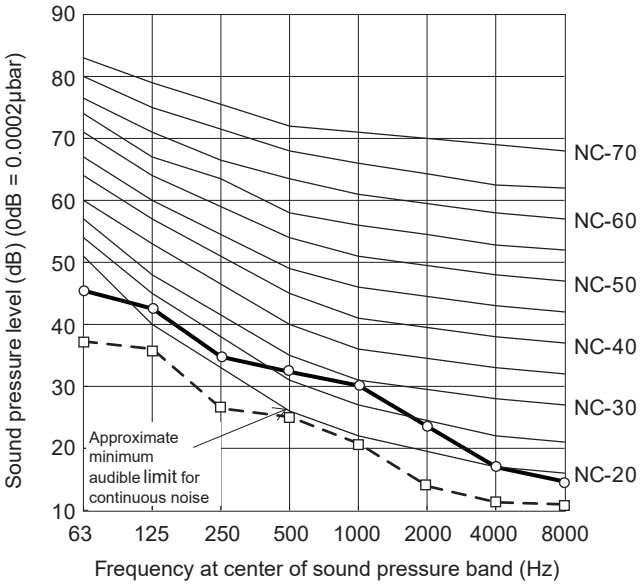
1-6-1-2. Middle Static Pressure Duct Type

High
Low

MODEL	: S-1014PF3E(100)
SOUND LEVEL	: High 33 dB(A)
	Low 25 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz

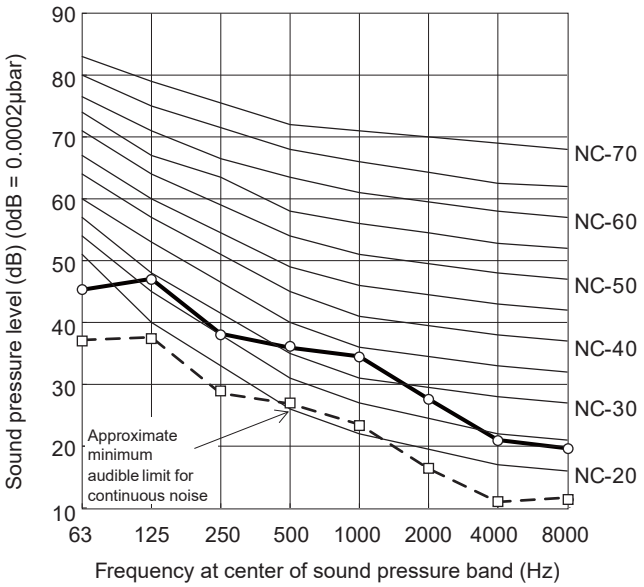


MODEL	: S-1014PF3E(125)
SOUND LEVEL	: High 35 dB(A)
	Low 27 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



* For S-1014PF3E (100) and S-1014PF3E (125), see the Combination Table items 100 and 125 on page 20 to 22.

MODEL	: S-1014PF3E(140)
SOUND LEVEL	: High 39 dB(A)
	Low 29 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



* For S-1014PF3E (140) , see the Combination Table items 140 on page 20 to 22.

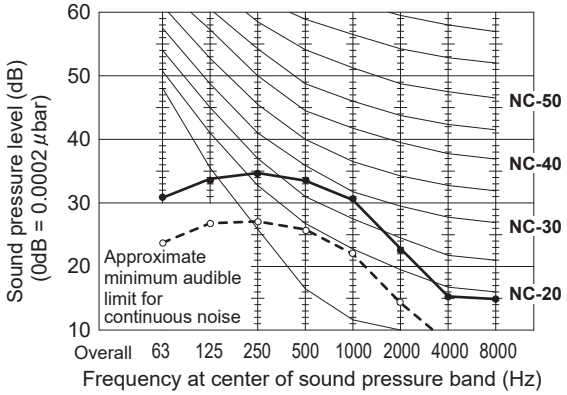
1-6-1-3. Wall Mounted Type

Strong
Low

MODEL : S-3650PK3E(36)

SOUND LEVEL		
	Strong	35 dB(A)
	High	31 dB(A)
	Low	27 dB(A)

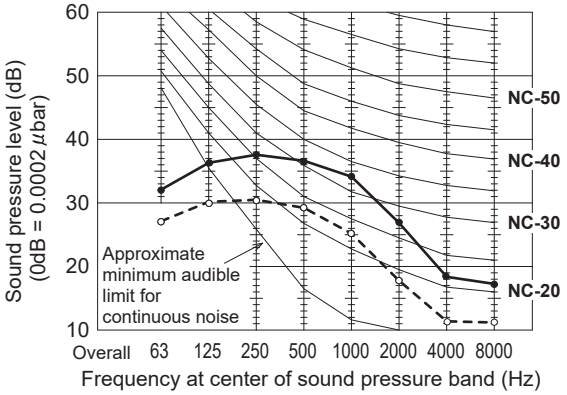
CONDITION : 1m in front of air discharge and then 1m below



MODEL : S-3650PK3E(45)

SOUND LEVEL		
	Strong	38 dB(A)
	High	34 dB(A)
	Low	30 dB(A)

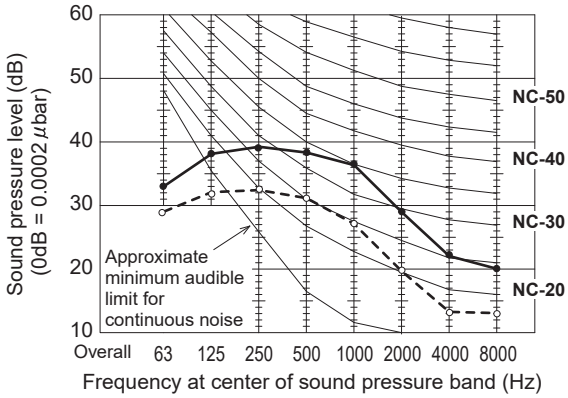
CONDITION : 1m in front of air discharge and then 1m below



MODEL : S-3650PK3E(50)

SOUND LEVEL		
	Strong	40 dB(A)
	High	36 dB(A)
	Low	32 dB(A)

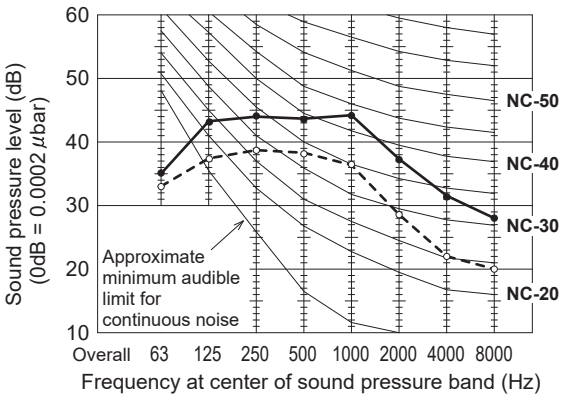
CONDITION : 1m in front of air discharge and then 1m below



MODEL : S-6010PK3E(60), S-6010PK3E(71)

SOUND LEVEL		
	Strong	47 dB(A)
	High	44 dB(A)
	Low	40 dB(A)

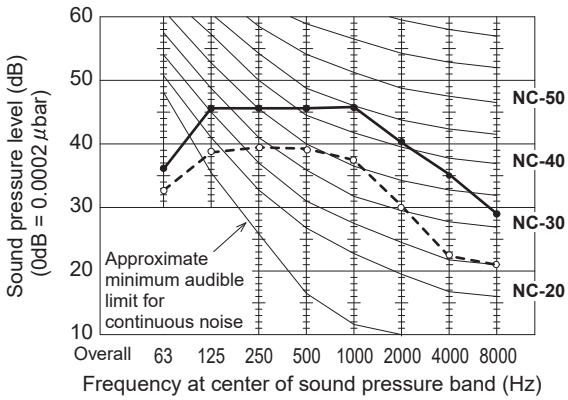
CONDITION : 1m in front of air discharge and then 1m below



MODEL : S-6010PK3E(100)

SOUND LEVEL		
	Strong	49 dB(A)
	High	45 dB(A)
	Low	41 dB(A)

CONDITION : 1m in front of air discharge and then 1m below

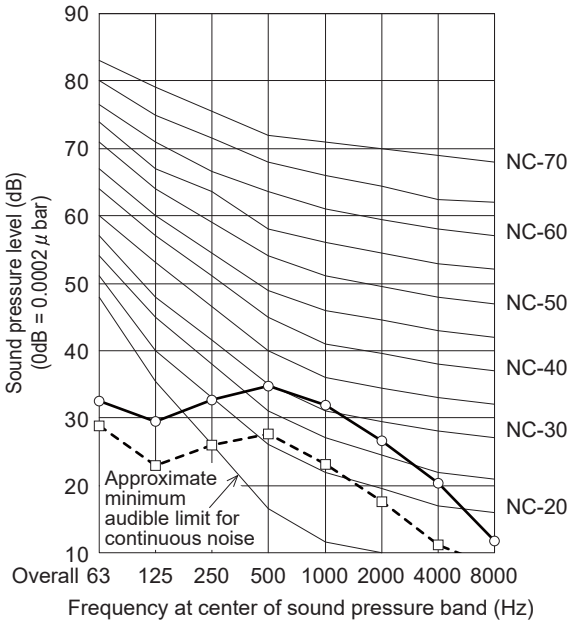


* For S-3650PK3E (36), S-3650PK3E (45), S-3650PK3E (50), S-6010PK3E (60), S-6010PK3E (71) and S-6010PK3E (100), see the Combination Table items 36, 45, 50, 60, 71 and 100 on page 20 to 22.

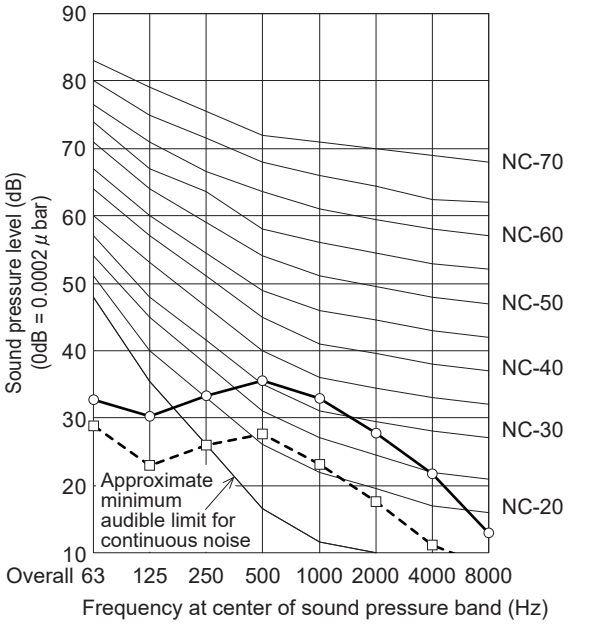
1-6-1-4. Ceiling Type

High
Low

MODEL	: S-3650PT3E(36)
SOUND LEVEL	: High 36 dB(A)
	Low 28 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

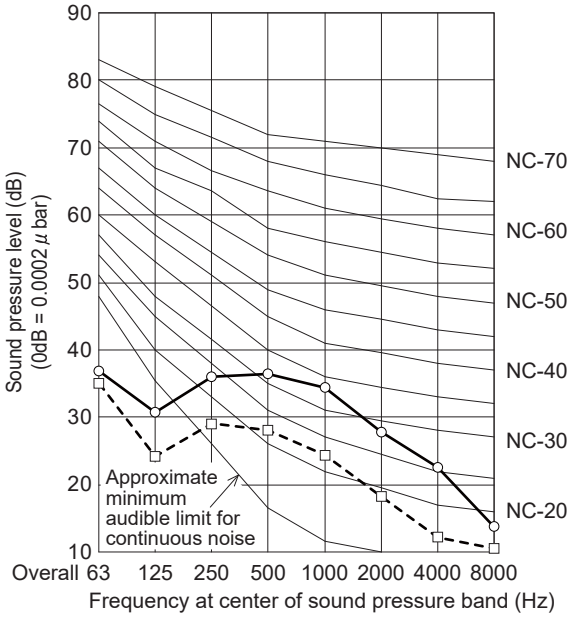


MODEL	: S-3650PT3E(45), S-3650PT3E(50)
SOUND LEVEL	: High 37 dB(A)
	Low 28 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

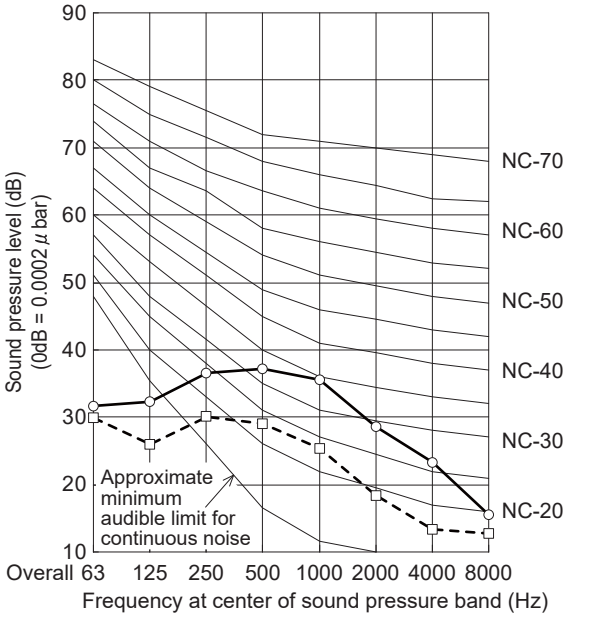


* For S-3650PT3E (36), S-3650PT3E (45) and S-3650PT3E (50), see the Combination Table items 36, 45 and 50 on page 20 to 22.

MODEL	: S-6071PT3E(60)
SOUND LEVEL	: High 38 dB(A)
	Low 29 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: S-6071PT3E(71)
SOUND LEVEL	: High 39 dB(A)
	Low 30 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

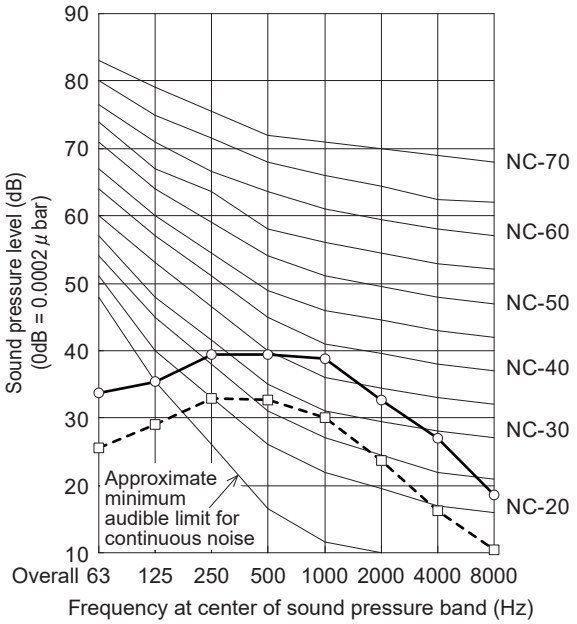


* For S-6071PT3E (60) and S-6071PT3E (71), see the Combination Table items 60 and 71 on page 20 to 22.

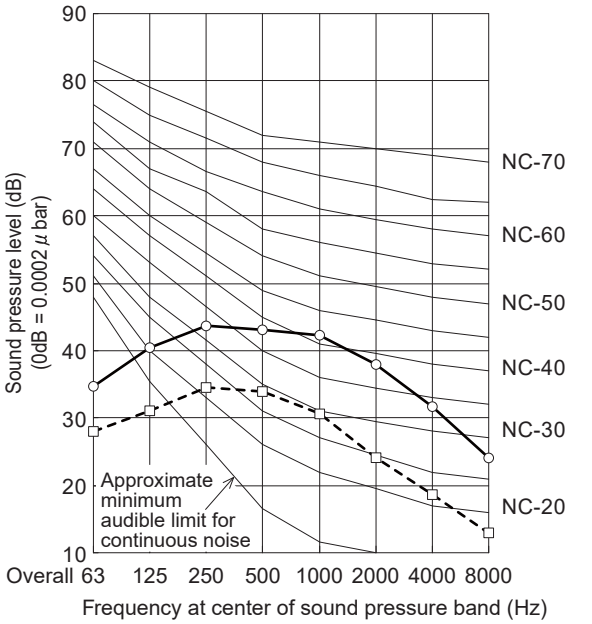
1-6-1-4. Ceiling Type

High
Low

MODEL	: S-1014PT3E(100)
SOUND LEVEL	: High 42 dB(A)
	Low 34 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

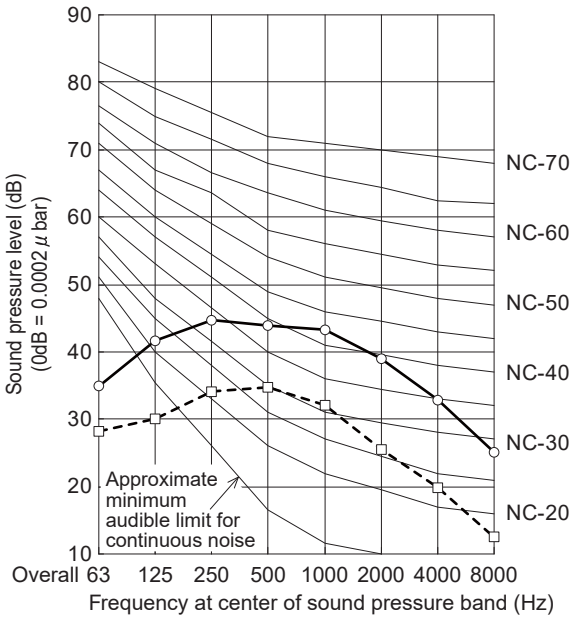


MODEL	: S-1014PT3E(125)
SOUND LEVEL	: High 46 dB(A)
	Low 35 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



* For S-1014PT3E (100) and S-1014PT3E (125), see the Combination Table items 100 and 125 on page 20 to 22.

MODEL	: S-1014PT3E(140)
SOUND LEVEL	: High 47 dB(A)
	Low 36 dB(A)
CONDITION	: 1 m from front of outlet at height of 1 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

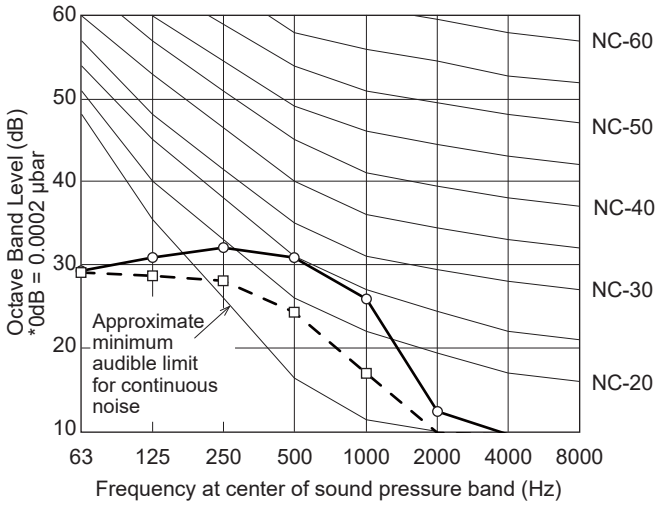


* For S-1014PT3E (140), see the Combination Table items 140 on page 20 to 22.

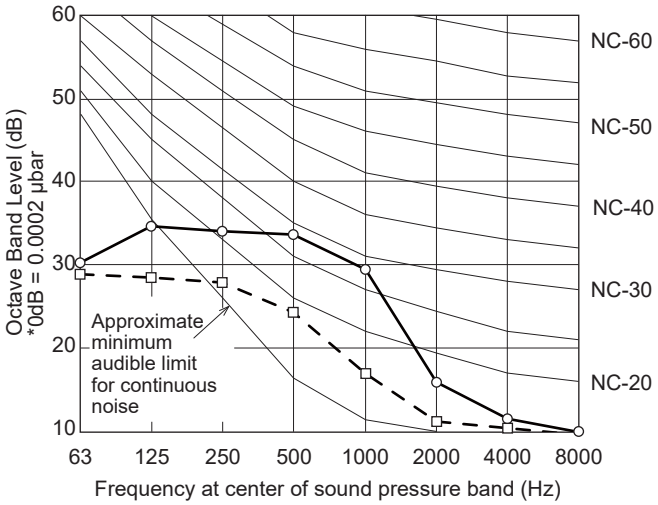
1-6-1-5. 4-Way Cassette 60 × 60 Type

High
Low

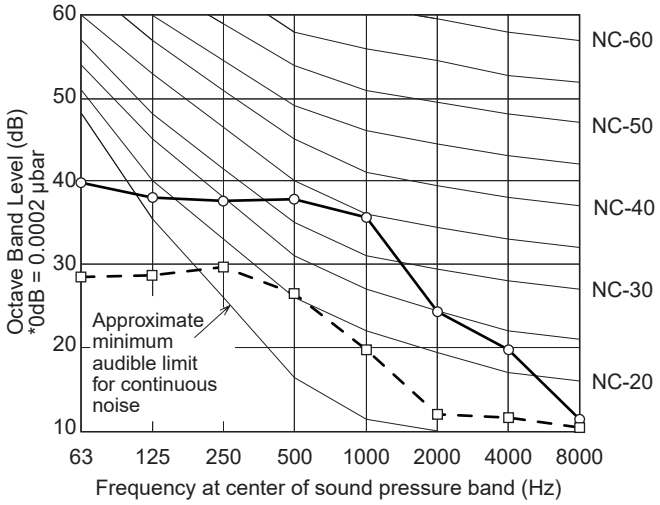
MODEL	: S-25PY3E
SOUND LEVEL	: High 31 dB(A)
	Low 25 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



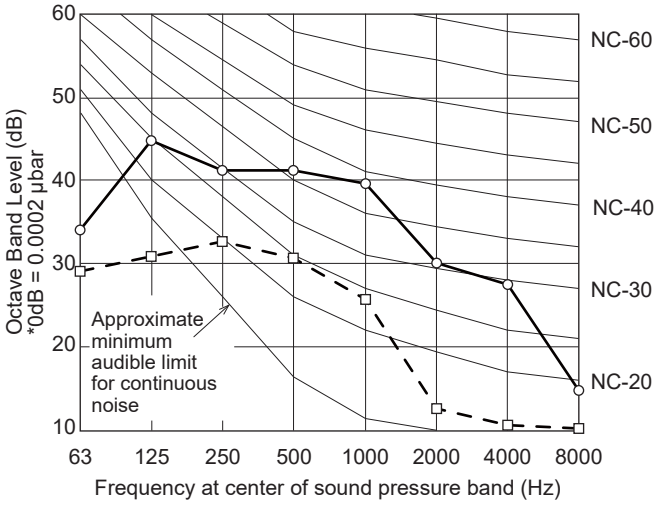
MODEL	: S-36PY3E
SOUND LEVEL	: High 34 dB(A)
	Low 25dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: S-50PY3E
SOUND LEVEL	: High 39 dB(A)
	Low 27 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



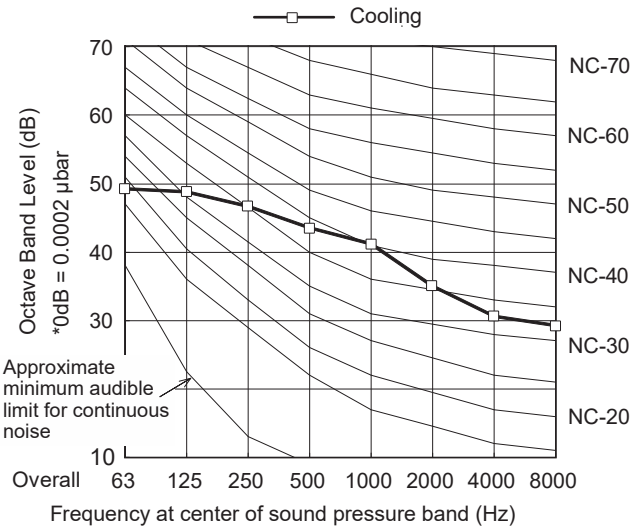
MODEL	: S-60PY3E
SOUND LEVEL	: High 43 dB(A)
	Low 31 dB(A)
CONDITION	: Under the unit 1.5m
SOURCE	: 220-230-240V, 1 phase, 50Hz



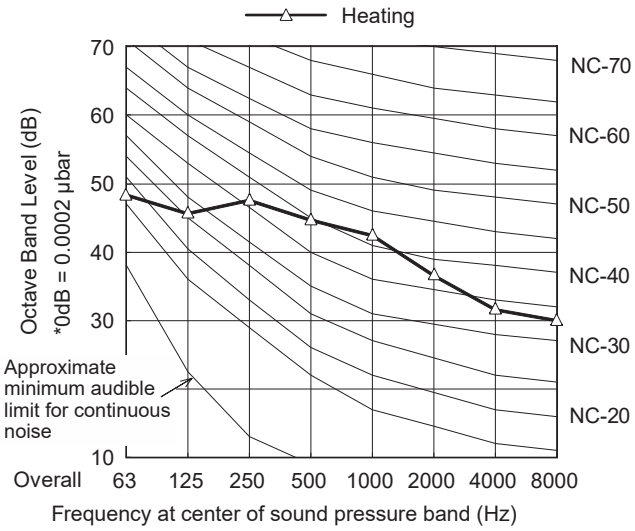
1-6-2. Outdoor Unit

1-6-2-1. PZ3

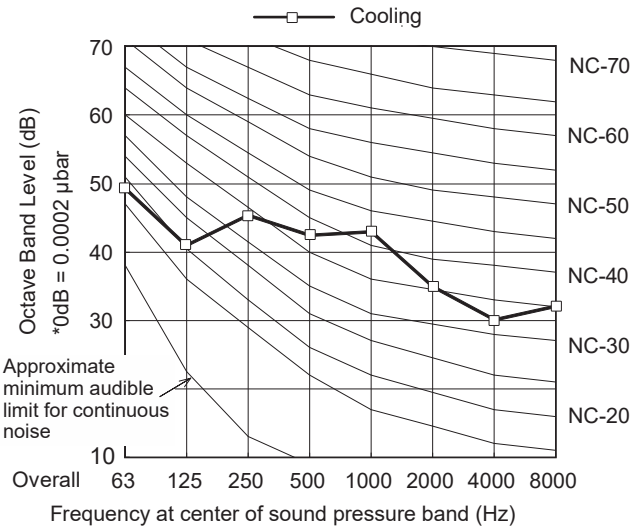
MODEL	: U-25PZ3E5, U-36PZ3E5
SOUND LEVEL	: Cooling 46 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



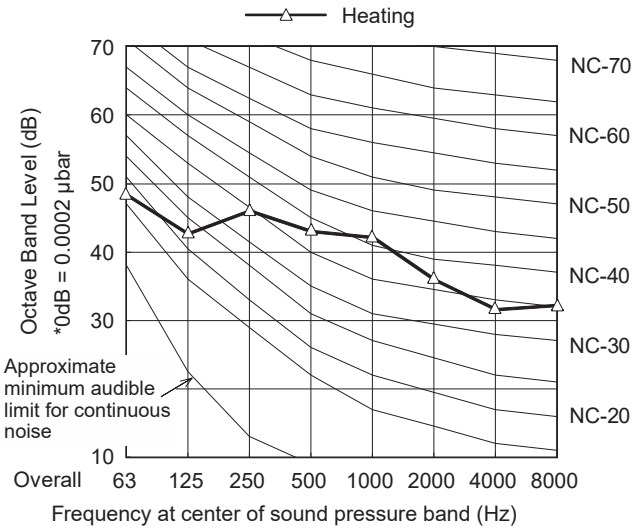
MODEL	: U-25PZ3E5, U-36PZ3E5
SOUND LEVEL	: Heating 47 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: U-50PZ3E5
SOUND LEVEL	: Cooling 46 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

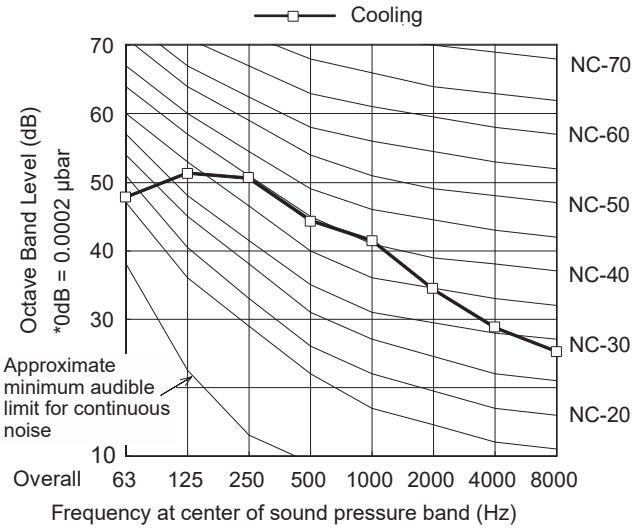


MODEL	: U-50PZ3E5
SOUND LEVEL	: Heating 46 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

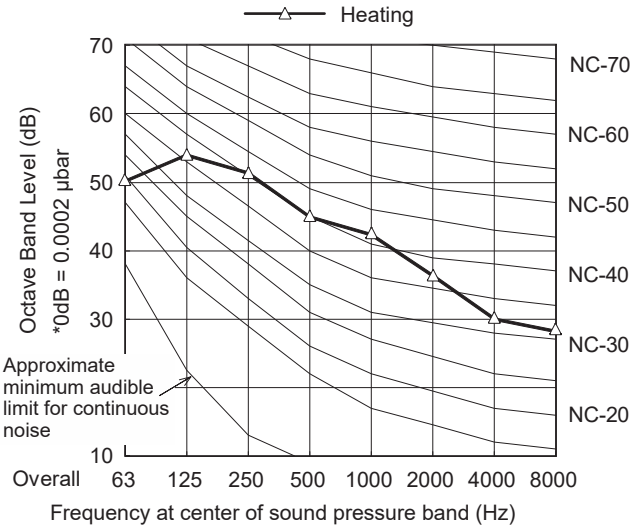


1-6-2-1. PZ3

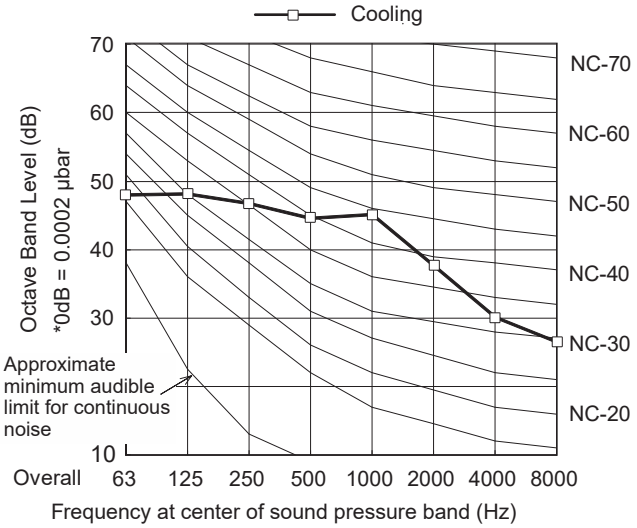
MODEL	: U-60PZ3E5A
SOUND LEVEL	: Cooling 47 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



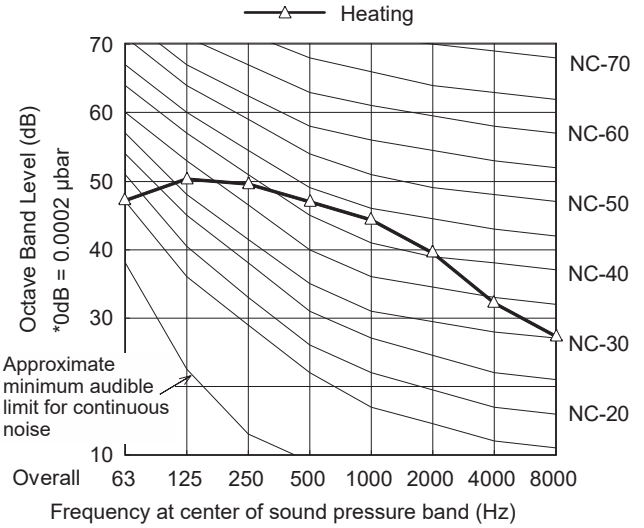
MODEL	: U-60PZ3E5A
SOUND LEVEL	: Heating 48 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: U-71PZ3E5A
SOUND LEVEL	: Cooling 48 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

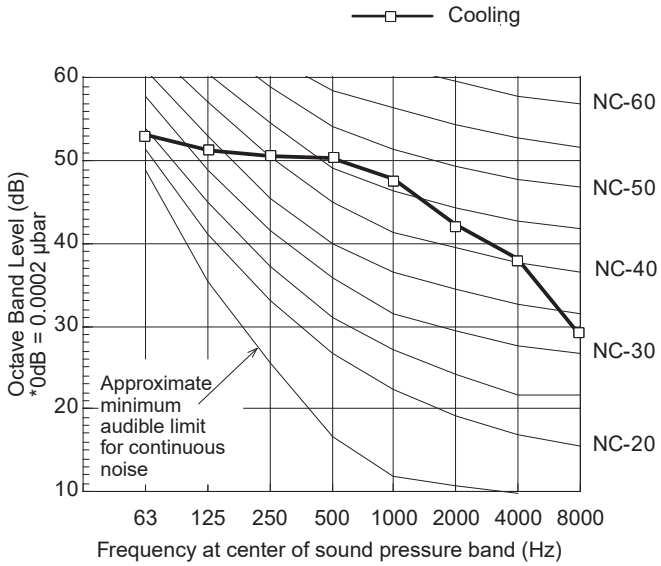


MODEL	: U-71PZ3E5A
SOUND LEVEL	: Heating 49 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

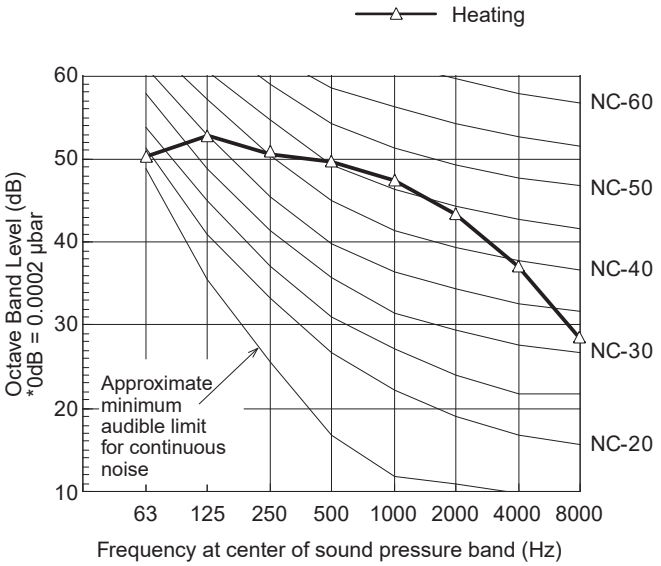


1-6-2-1. PZ3

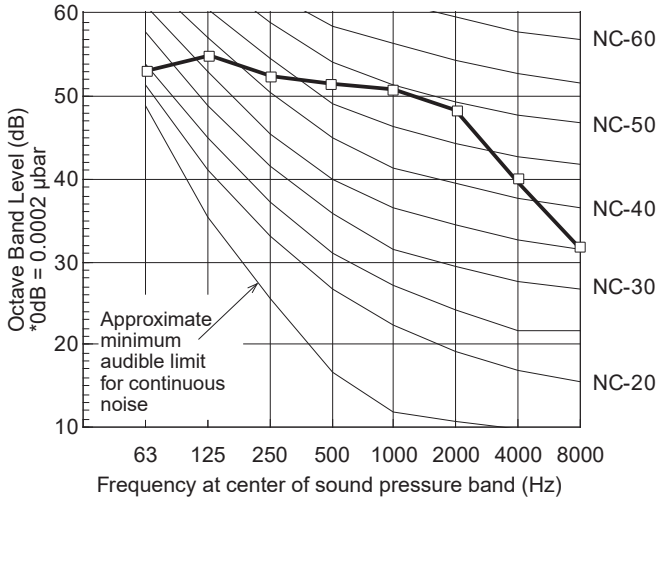
MODEL	: U-100PZ3E5, U-100PZ3E8
SOUND LEVEL	: Cooling 52 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	:220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



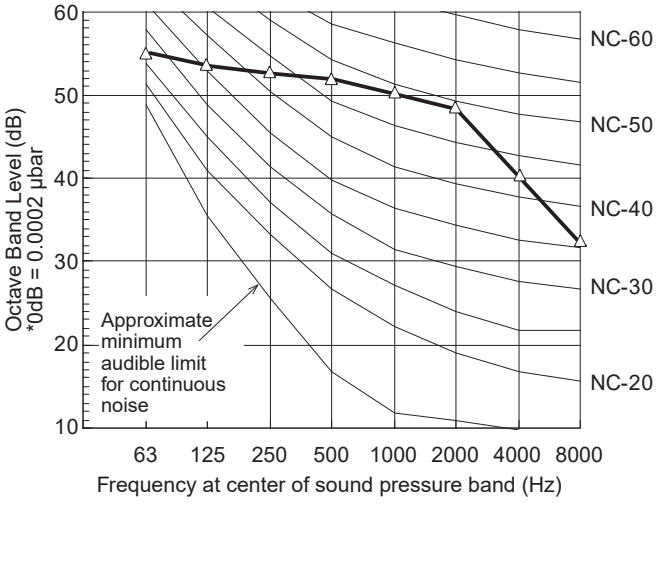
MODEL	: U-100PZ3E5, U-100PZ3E8
SOUND LEVEL	: Heating 52 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



MODEL	: U-125PZ3E5, U-125PZ3E8
SOUND LEVEL	: Cooling 55 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz

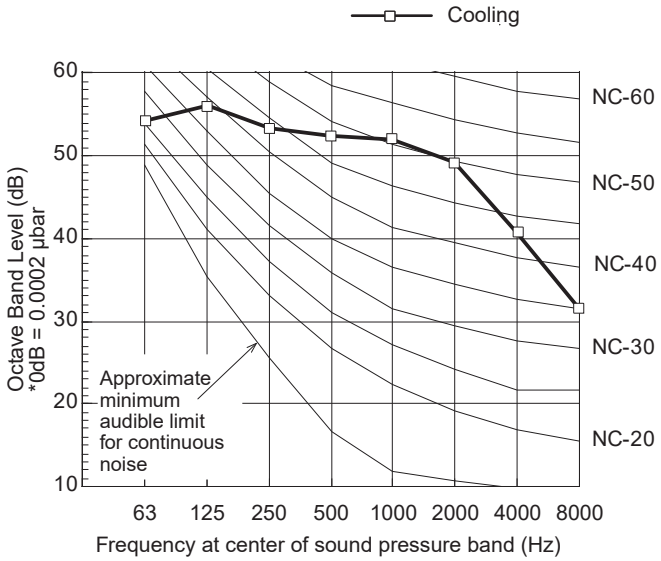


MODEL	: U-125PZ3E5, U-125PZ3E8
SOUND LEVEL	: Heating 55 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz

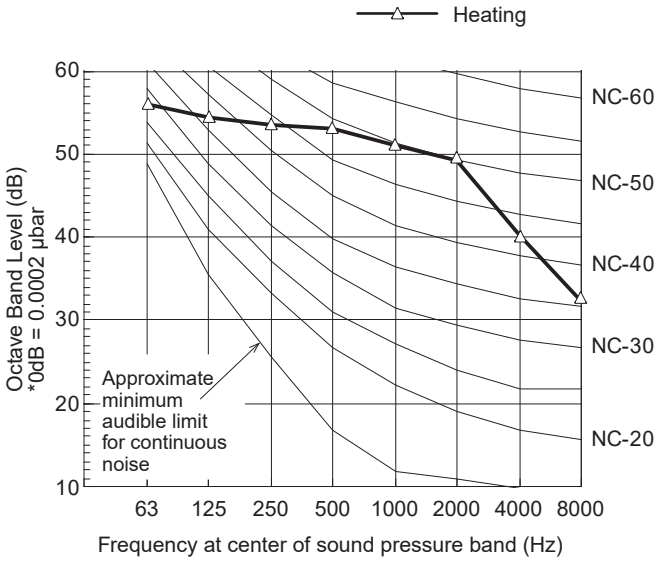


1-6-2-1. PZ3

MODEL	: U-140PZ3E5, U-140PZ3E8
SOUND LEVEL	: Cooling 56 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz

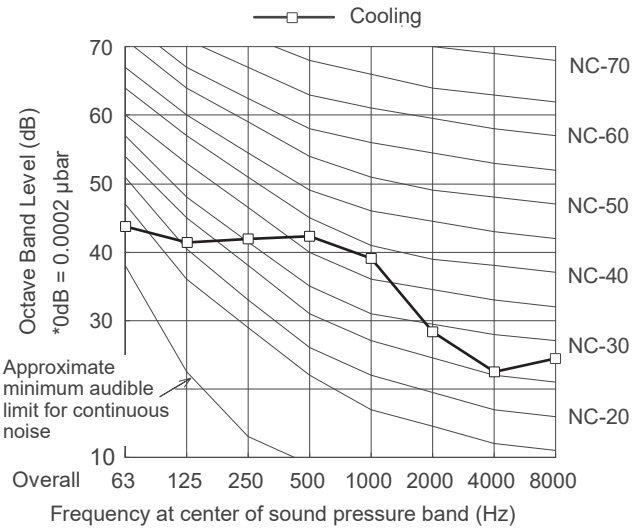


MODEL	: U-140PZ3E5, U-140PZ3E8
SOUND LEVEL	: Heating 56 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz

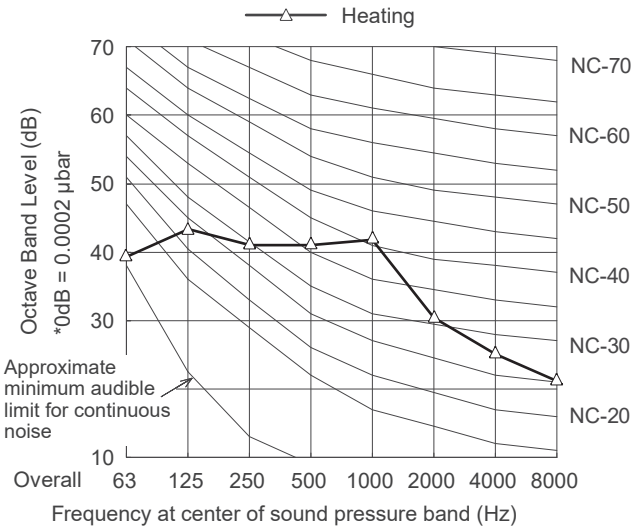


1-6-2-2. PZH3

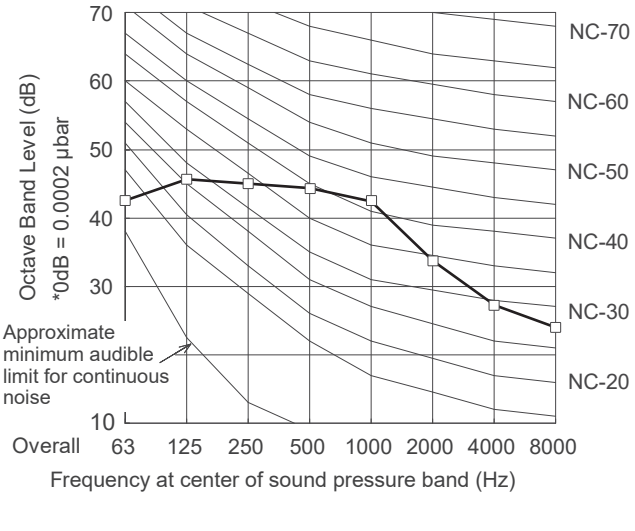
MODEL	: U-36PZH3E5
SOUND LEVEL	: Cooling 43 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



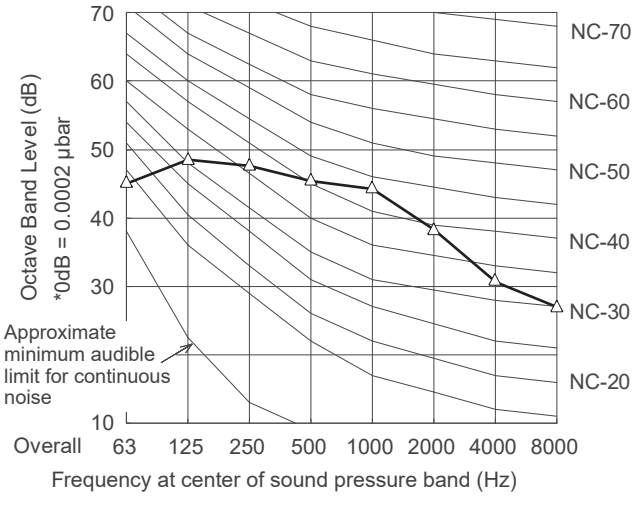
MODEL	: U-36PZH3E5
SOUND LEVEL	: Heating 44 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz



MODEL	: U-50PZH3E5
SOUND LEVEL	: Cooling 46 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

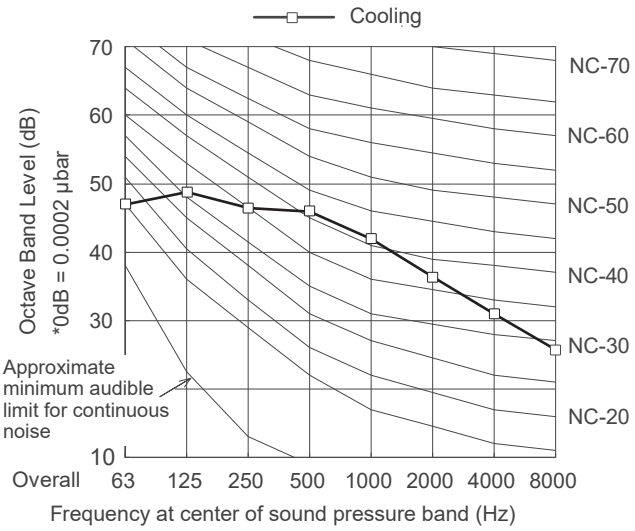


MODEL	: U-50PZH3E5
SOUND LEVEL	: Heating 48 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

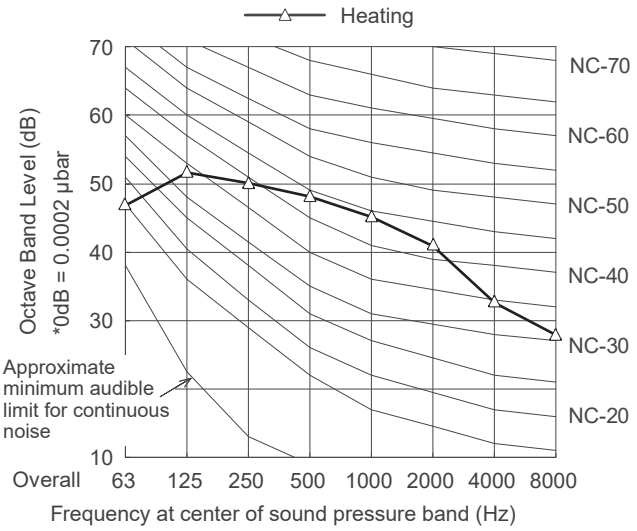


1-6-2-2. PZH3

MODEL	: U-60PZH3E5
SOUND LEVEL	: Cooling 47 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

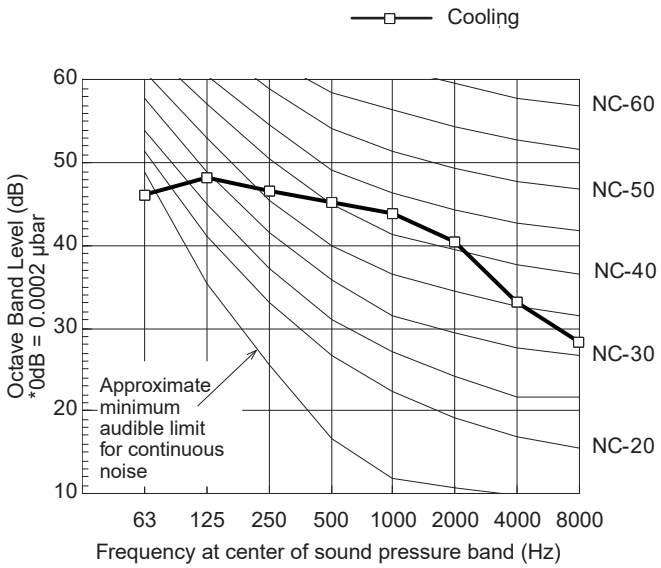


MODEL	: U-60PZH3E5
SOUND LEVEL	: Heating 50 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz

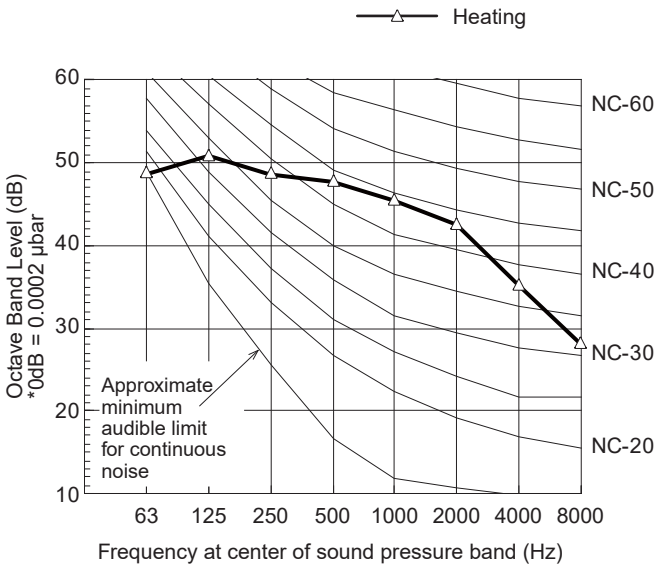


1-6-2-2. PZH3

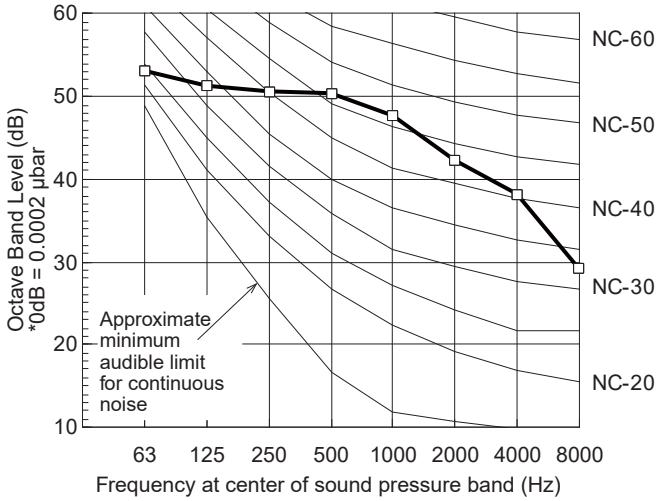
MODEL	: U-71PZH3E5, U-71PZH3E8
SOUND LEVEL	: Cooling 48 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	:220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



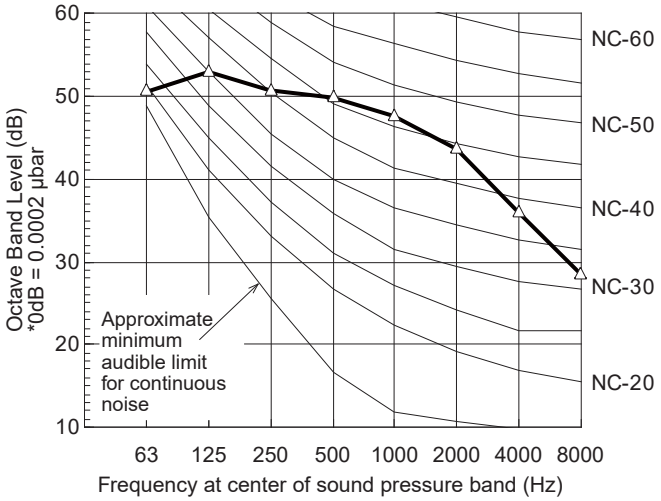
MODEL	: U-71PZH3E5, U-71PZH3E8
SOUND LEVEL	: Heating 50 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



MODEL	: U-100PZH3E5, U-100PZH3E8
SOUND LEVEL	: Cooling 52 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz

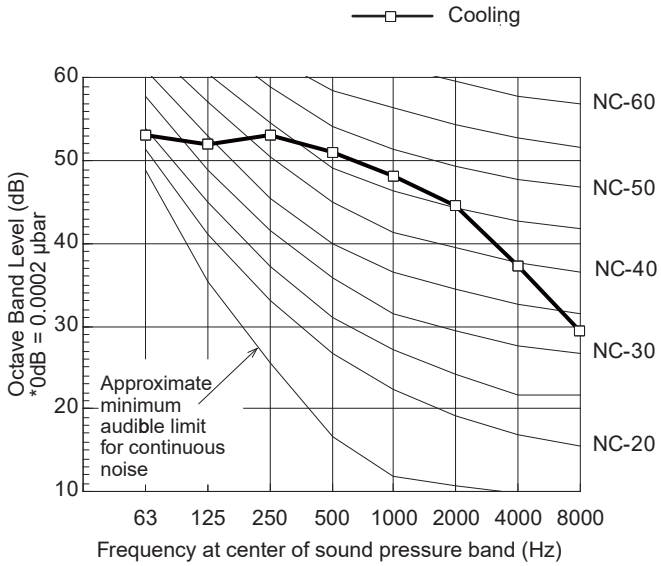


MODEL	: U-100PZH3E5, U-100PZH3E8
SOUND LEVEL	: Heating 52 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz

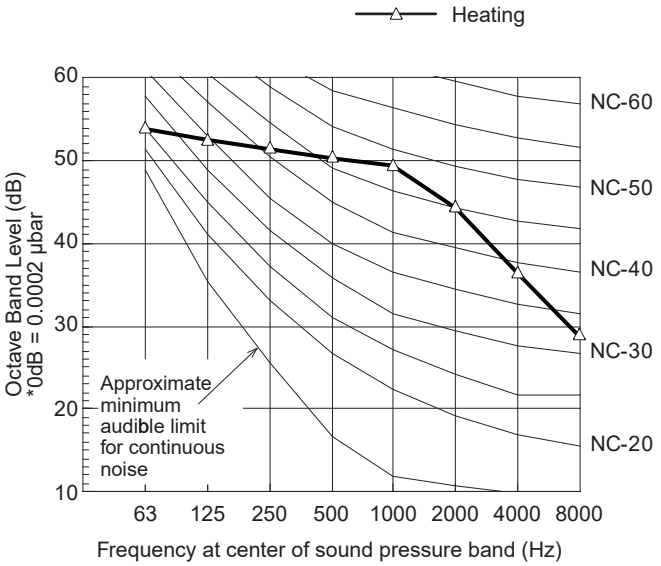


1-6-2-2. PZH3

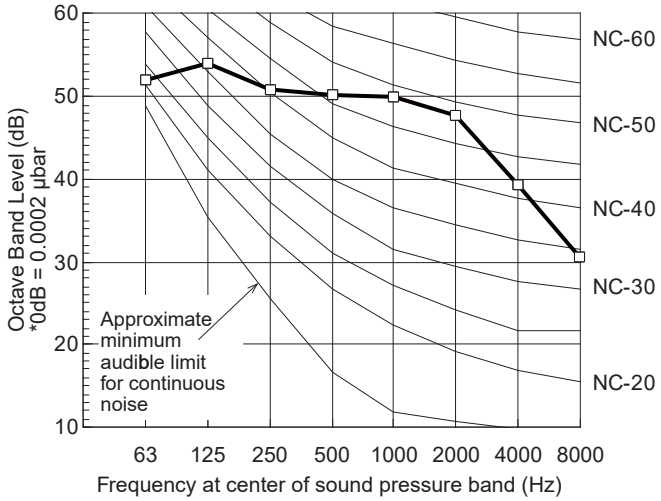
MODEL	: U-125PZH3E5, U-125PZH3E8
SOUND LEVEL	: Cooling 53 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	:220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



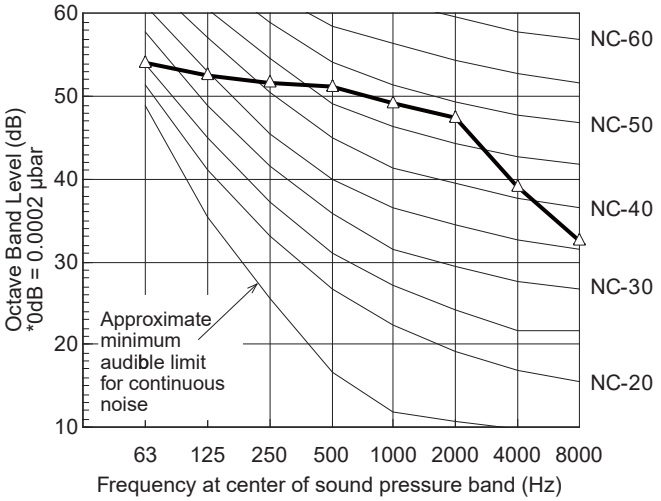
MODEL	: U-125PZH3E5, U-125PZH3E8
SOUND LEVEL	: Heating 53 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



MODEL	: U-140PZH3E5, U-140PZH3E8
SOUND LEVEL	: Cooling 54 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



MODEL	: U-140PZH3E5, U-140PZH3E8
SOUND LEVEL	: Heating 54 dB(A)
CONDITION	: 1 m in front at height of 1.5 m
SOURCE	: 220-230-240V, 1 phase, 50Hz 380-400-415V, 3 phase, 50Hz



1-7. Indoor Fan Performance

1-7-1. Middle Static Pressure Duct Type

1-7-1-1. EXTERNAL STATIC PRESSURE SETTING

For middle static pressure duct type indoor units, the ventilating resistance so-called “external static pressure” becomes greatly different depending on the connected duct length, shape, number of air outlet ports and types of filters. When installing this unit, be sure to carry out the external static pressure setting in order to operate in the rated airflow volume. Choose one of the following methods from “a”, “b”, “c” or “d” as shown in the flow chart (within the dotted lines) and then make the setting accordingly.

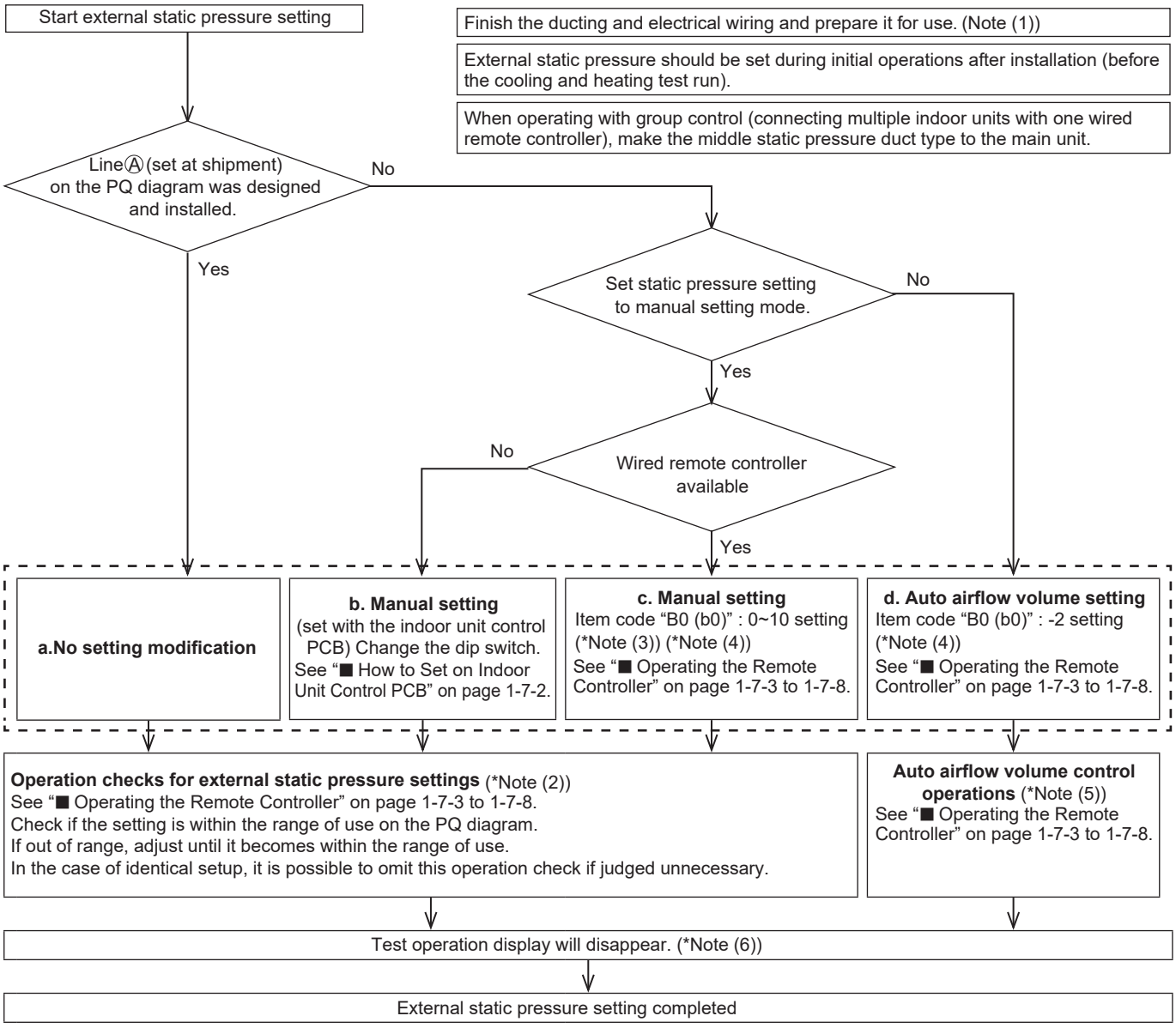
a. No setting modification ..... : Use-as-is at shipment (there are cases in which the setting may differ from the shipment setting when reset after once setting the external static pressure.)

b. Manual setting (set with the indoor unit control PCB) ..... : For high static pressure. Switching method with the short-circuit connector.

c. Manual setting (set with the wired remote controller) ..... : Low static pressure ~ high static pressure

d. Auto airflow volume setting (set on the wired remote controller) ..... : Air outlet volume is automatically adjusted to the rated airflow volume with the auto airflow control drive.

Flow of External Static Pressure



NOTE

(1) Check the following items before performing the setting-check operations or auto airflow volume operations.

1) Check to make sure that the electrical wiring and ducting have been completed. Activate the stand-by mode. In particular, make sure that the closed damper located in the middle of the duct is open, if installed. Also, make sure that air filters have been installed inside the air inlet duct.
Check to make sure air is not leaking from the joints.

2) If multiple air outlets and air inlets are included, adjust the airflow volume ratio of all of them until they meet the design airflow ratio.

3) Make sure the address setting has been completed.

(2) The operation check will be completed in approximately three minutes if the settings have been made correctly. The settings will be modified if they are out of the range of use (maximum 30 minutes.). If this is not completed within 31 minutes, check whether the air speed is set to “H” or not.

(3) See Table 1-7-2, 1-7-3, 1-7-4 and Fig. 1-7-2 for details on the relationship between the value of item code “B0(b0)” and the external static pressure.

(4) When set in group control (connecting multiple indoor units with one wired remote controller), set each indoor unit to item code “B0(b0)”. When amending the setting after selecting [b. Manual setting] (due to airflow path changes, etc.), it is necessary to cancel [b. Manual setting] (change the dip switch). When [b. Manual setting] has not been cancelled, [c. Manual setting] and [d. Auto airflow volume setting] will be activated if selected, but [b. Manual setting] takes precedence when the power is switched back on after power outages, etc.

(5) If this is not completed within 8 minutes, check the operation mode, air speed and air inlet temperature.

(6) When set in group control (connecting multiple indoor units with one wired remote controller), the test run operations display will disappear once the external static pressure setting check or auto airflow volume control operation check have been completed for the main unit. However, it is not possible to determine whether sub-units have completed. The test run operation display will disappear after one hour even if the external static pressure setting check or auto airflow volume control operation check have not been completed.

CAUTION

- **Be sure to check that the external static pressure is within the range for use and then make the setting. Failure to observe this may result in insufficient airflow or water leakages. See Fig. 1-7-2 for the external static pressure setting range.**
- **There are cases in which automatic variable dampers and other mounted items may trigger the P12 alarm on systems that modify the external static pressure when the auto airflow volume control operations or setting check operations are carried out if high external static pressure is lowered. In this event, lower the dampers, etc., so that the external static pressure reaches its lowest level, and then carry out the auto airflow volume control operations or setting check operations.**
- **Be sure to set the [External Static Pressure Setting] once again after amending the airflow path for the duct or air outlet after setting the external static pressure.**
- **Set the air inlet temperature within the range for use. The auto airflow volume control will not function if the air inlet temperature is over 45°C or if operation is other than fan mode.**

■ How to Set on Indoor Unit Control PCB

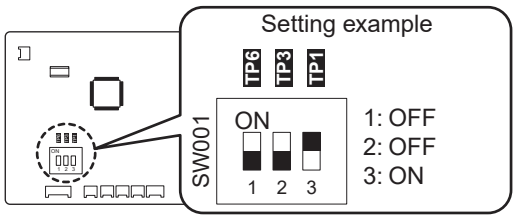
1. Turn off the power breaker to halt the supply of electricity to the indoor unit control PCB.

2. Open the electrical component box cover, then check the indoor unit control PCB. (Fig. 1-7-1)

3. Change the dip switch (SW001) of the indoor unit control PCB according to the setting selected in Table 1-7-1.

Table 1-7-1

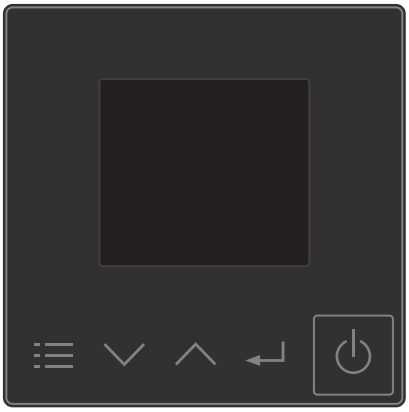
External static pressure of the rated airflow volume	DIP switch
10 Pa	TP6 TP3 TP1 ON 1 2 3
50 Pa	TP6 TP3 TP1 ON 1 2 3
110 Pa	TP6 TP3 TP1 ON 1 2 3



Indoor unit control PCB

Fig. 1-7-1

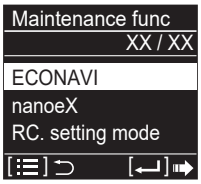
■ Operating the Wired Remote Controller (CZ-RTC6 series)



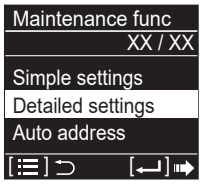
CZ-RTC6 series

How to set the external static pressure

1. Keep pressing the [≡], [∧] and [↵] buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.



2. Press the [∨] or [∧] button to see each menu.
   Select “Detailed settings” on the LCD display and press the [↵] button.
   The “Detailed settings” screen appears on the LCD display.



3. Select the “Unit no.” by pressing the [∨] or [∧] button.
   After selecting “Unit no.”, press the [↵] button and proceed to Step 4.
   If the [≡] button is pressed, proceed to Step 6.



4. Keep pressing the [↵] button for 2 seconds or more during selecting “Code no.”.

   Change the “Code no.” one digit at a time so that it becomes [0000B0] along with the following procedures.



   Change the value by pressing the [∨] or [∧] button.
   After changing the value, press the [↵] button and set the next digit.

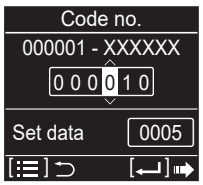


Fig. A

   Change the value by pressing the [∨] or [∧] button.
   After changing the value, press the [↵] button and set the next digit.

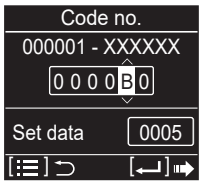


Fig. B

   Change the value by pressing the [∨] or [∧] button.
   After changing all digits, press the [↵] button and proceed to Step 5.

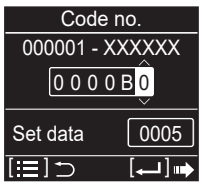


Fig. C

5. Select one of the “Set data” among “0001”–“0010” according to the desired external static pressure setting by pressing the ▽ or △ button.

   (See Table 1-7-2.)
   When setting to auto airflow volume control:
   Select the setting data to “-002”.

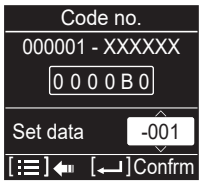


Fig. D

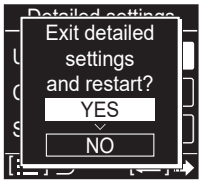
   After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from **Fig. A**.)
   If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step 3).

Table 1-7-2 Setting the external static pressure

Indoor unit type				Item code
3650	6071	1014		
Outdoor unit type				
–	100	125	140	B0
External static pressure of the rated airflow volume (Pa)				
150	150	150		0010
140	140	140		0009
130	130	130		0008
120	120	120		0007
110	110	110		0006
90	90	90		0005
70	70	70		0004
50	50	50 *		0003
30 *	40 *	30		0002
10	10	10		0001
No auto airflow volume setting				-001
Auto airflow volume setting				-002

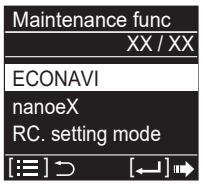
* Setting at shipment

6. If the ☰ button is pressed under the display Step 3, the following display (Detailed setting-end screen) appears.
   Then select “YES” by pressing the ▽ or △ button and press the ↵ button.

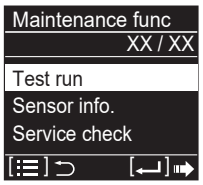


Auto External Static Pressure Setting Operation

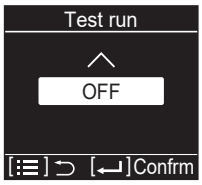
7. Keep pressing the ☰, △ and ↵ buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.



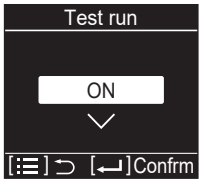
8. Press the ▽ or △ button to see each menu.
   Select “Test run” on the LCD display and press the ↵ button.



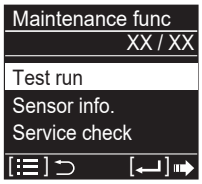
The “Test run” screen appears on the LCD display.



Change the display from “OFF” to “ON” by pressing the ▽ or △ button.
Then press the ↵ button.



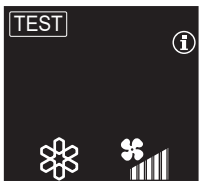
The “Maintenance func” screen appears on the LCD display.



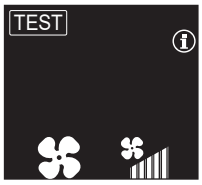
9. Press the ☰ button.
“TEST” will be displayed on the LCD display.



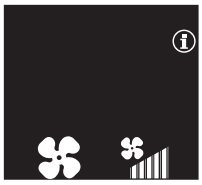
10. Press the ⏻ button. Test run will be started.
Test run setting mode screen appears on the LCD display.
Current fan speed can be checked by pressing the ☰ button.



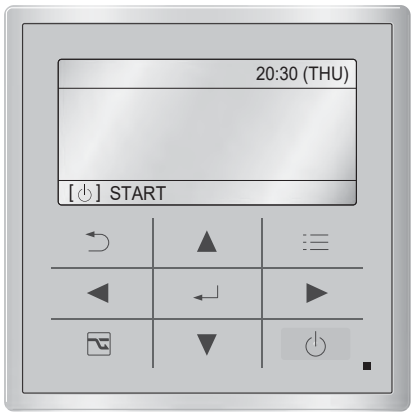
11. Set the operation mode to “ (MODE FAN)” and fan speed mode to “ (FAN SPEED)” by pressing the ☰ and ▽ or △ buttons.
Then press the ↵ button.



The fan motor will be activated, the auto external static pressure setting operation and setting-check operation will be performed for about 3 to 30 minutes.
The fan speed will change automatically while these operations are in progress.
When these operations completed, “TEST” will be disappeared from the LCD display.



■ Operating the High-spec Wired Remote Controller



CZ-RTC5B

How to set the external static pressure

1. Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
Sel. ◀ ▶ Page [↵] Confirm

2. Press the [▼] or [▲] button to see each menu.
   If you wish to see the next screen instantly, press the [◀] or [▶] button.
   Select “8. Detailed settings” on the LCD display and press the [↵] button.

Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
Sel. ◀ ▶ Page [↵] Confirm

   The “Detailed settings” screen appears on the LCD display.
   Select the “Unit no.” by pressing the [▼] or [▲] button for changes.

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	10	0001
Sel. ▶ Next		

3. Select the “Code no.” by pressing the [◀] or [▶] button.
   Change the “Code no.” to “B0” by pressing the [▼] or [▲] button (or keeping it pressed).

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	B0	0001
Sel. ▶ Next		

4. Select the “Set data” by pressing the [◀] or [▶] button.
   Select one of the “Set data” among “0001” – “0010” according to the desired external static pressure setting by pressing the [▼] or [▲] button.
   Then press the [↵] button. (See Table 1-7-3.)

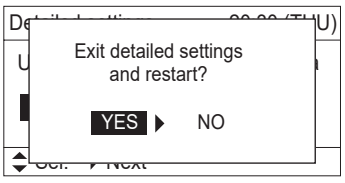
   When setting to auto airflow volume control:
   Select the setting data to “-002”.
   Then press the [↵] button.

Table 1-7-3 Setting the external static pressure

Indoor unit type				Item code
3650	6071	1014		
Outdoor unit type				
–	100	125	140	**B0**
External static pressure of the rated airflow volume (Pa)				
150	150	150		**0010**
140	140	140		**0009**
130	130	130		**0008**
120	120	120		**0007**
110	110	110		**0006**
90	90	90		**0005**
70	70	70		**0004**
50	50	50 *		**0003**
30 *	40 *	30		**0002**
10	10	10		**0001**
No auto airflow volume setting				**-001**
Auto airflow volume setting				**-002**

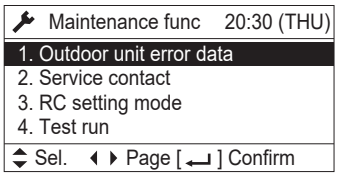
* Setting at shipment

5. Select the “Unit no.” by pressing the [◀] or [▶] button and press the [↩] button.
   The “Exit detailed settings and restart?” (Detailed setting-end) screen appears on the LCD display.
   Select “YES” and press the [↵] button.
   When the setting is completed, perform the test run for the external static pressure setting described in “Auto External Static Pressure Setting Operation”.



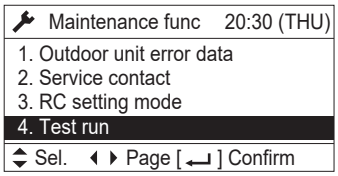
Auto External Static Pressure Setting Operation

6. Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
   The "Maintenance func" screen appears on the LCD display.

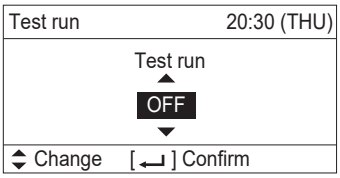


7. Press the [▼] or [▲] button to see each menu.
   If you wish to see the next screen instantly, press the [◀] or [▶] button.

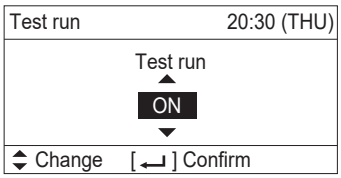
   Select "4. Test run" on the LCD display and press the [↵] button.



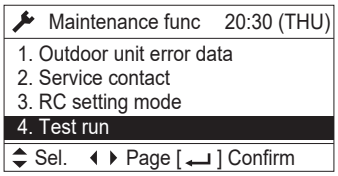
   The "Test run" screen appears on the LCD display.



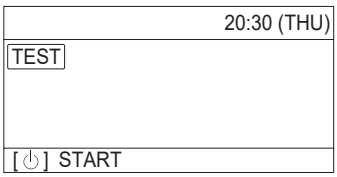
   Change the display from OFF to ON by pressing the [▼] or [▲] button. Then press the [↵] button.



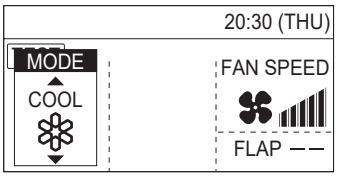
   The "Maintenance func" screen appears on the LCD display.



8. Press the [↩] button. "TEST" will be displayed on the LCD display.

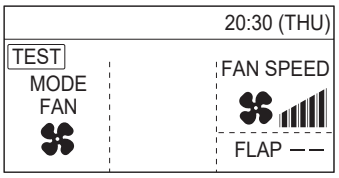


9. Press the [⏻] button. Test run will be started.
   Test run setting mode screen appears on the LCD display.

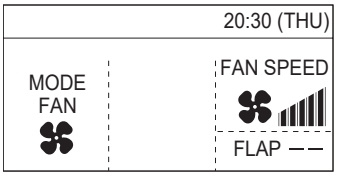


10. Set the operation mode to (MODE FAN)" and fan speed mode to " (FAN SPEED)" by pressing the [◀] or [▶] button or [▼] or [▲] button.

    Then press the [↵] button.



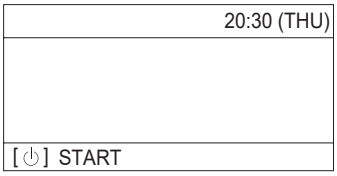
    The fan motor will be activated, the auto external static pressure setting operation and setting-check operation will be performed for about 3 to 30 minutes.
    The fan speed will change automatically while these operations are in progress. When these operations completed, "TEST" will be disappeared from the LCD display.



NOTE:

The auto external static pressure setting operation and setting-check operation will not be performed unless " (MODE FAN)" and " (FAN SPEED)" have been selected.

11. Press the [⏻] button.
    The LCD display will be returned to the initial screen.



NOTE:

Failure to set this parameter may result in decreased airflow and condensation.

■ Operating the Timer Remote Controller (CZ-RTC4)

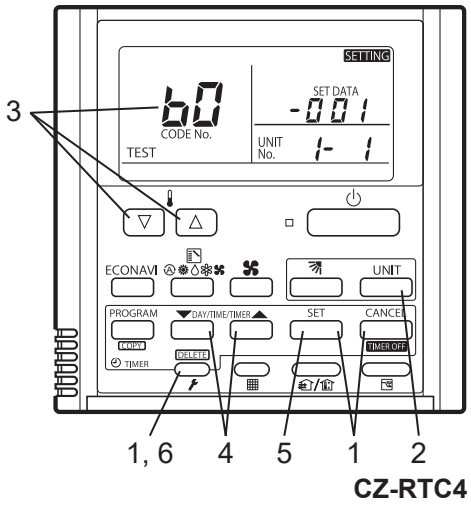
● Setting Item Code "bO"

1. Press and hold down the [ ], [CANCEL] and [SET] buttons simultaneously for 4 or more seconds.
   (SETTING, the unit no., item code and detailed data will blink on the LCD display.)
2. The indoor unit numbers in the group control will be sequentially displayed whenever the Unit Select button is pressed [UNIT].
   Only the fan motor for the selected indoor unit will operate during this time.
3. Specify the "bO" item code by pressing the [▽] / [△] buttons for the temperature setting buttons and confirm the values. ("-001" set at shipment)
4. Press the [DAY] / [TIMER] buttons for the time to amend the values for the set data.
   See Table 1-7-4 and Fig. 1-7-2 and select a value between "0001" and "0010".
   Select "-002" if the auto airflow volume setting is activated.
5. Press the [SET] button.
   The display will stop blinking and remain illuminated.
6. Press the [ ] button. The fan motor will stop operating and the LCD display will return to the normal stop mode.

Table 1-7-4 Setting the external static pressure

Indoor unit type				Item code
3650	6071	1014		bO
Outdoor unit type				
–	100	125	140	
External static pressure of the rated airflow volume (Pa)				
150	150	150		0010
140	140	140		0009
130	130	130		0008
120	120	120		0007
110	110	110		0006
90	90	90		0005
70	70	70		0004
50	50	50 *		0003
30 *	40 *	30		0002
10	10	10		0001
No auto airflow volume setting				-001
Auto airflow volume setting				-002

* Setting at shipment



CZ-RTC4

*Failure to set this parameter may result in decreased airflow and condensation.

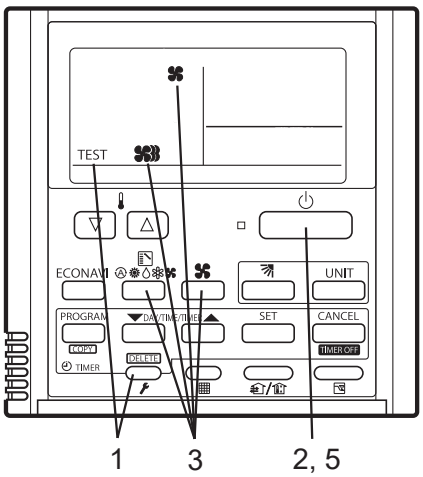
● Auto Airflow Volume Control Operations and External Static Pressure Setting-Check Operation

1. Press and hold down the [ ] button for 4 or more seconds.
   "TEST" will be displayed on the LCD display.
2. Press the [ ] button to start the test run.
3. Select the operation mode (Fan) by pressing the [ ] (Mode select) button.
   Then select the fan speed by press-ing the [ ] (Fan speed) button.

NOTE

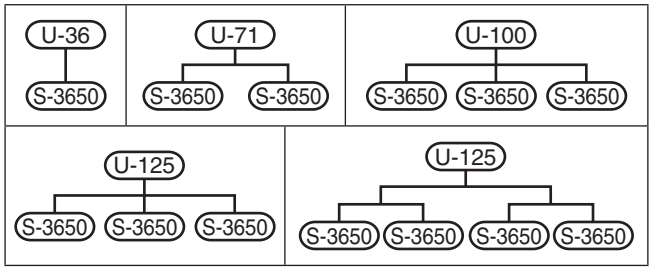
Auto airflow volume control operations and external static pressure setting-check operations will not be performed unless the above settings are made.

4. The fan motor will be activated and auto airflow volume control operations or external static pressure setting-check operations will be started.
   The power of the airflow will change while these operations are in progress.
   The external static pressure setting-check operations and auto airflow volume control operations will be completed in about 3 to 30 minutes.
   "TEST" display will be disappeared from the LCD display.
5. Press the [ ] button to halt the test run.



CZ-RTC4

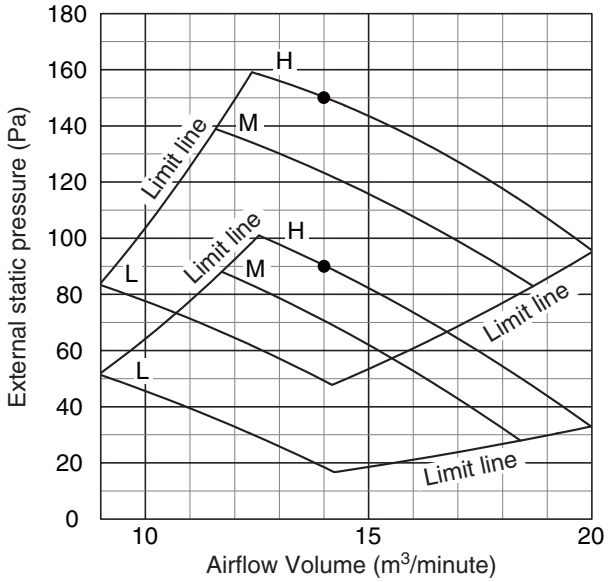
Indoor Units Type 3650 (36, 45)



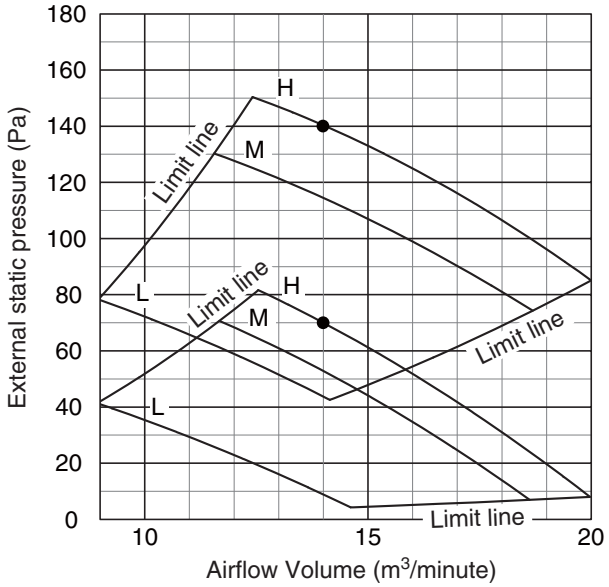
Indoor Fan Performance

PQ diagram (Fig. 1-7-2)

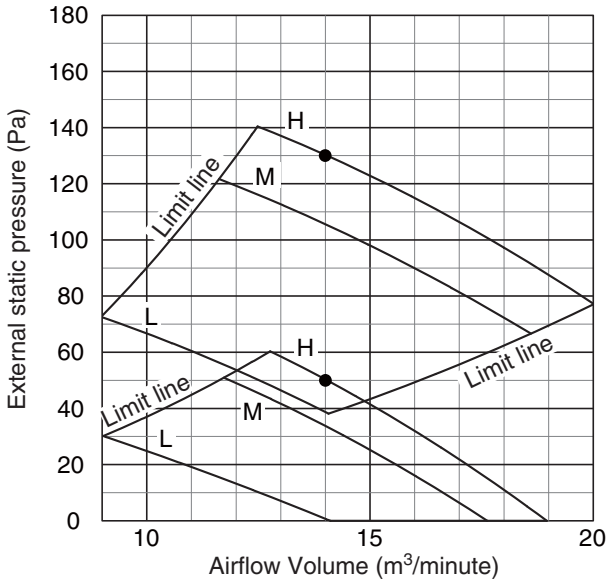
External static pressure 150Pa, 90Pa



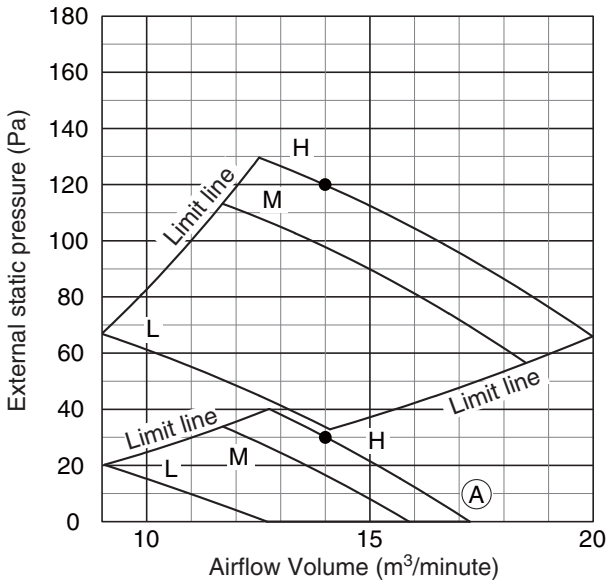
External static pressure 140Pa, 70Pa



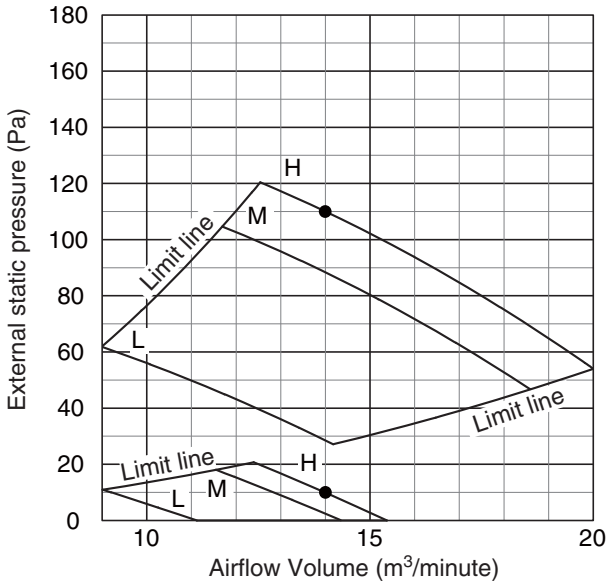
External static pressure 130Pa, 50Pa



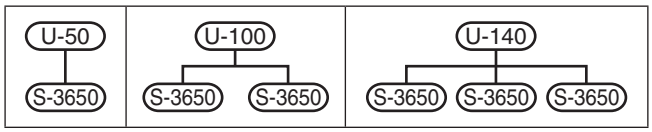
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



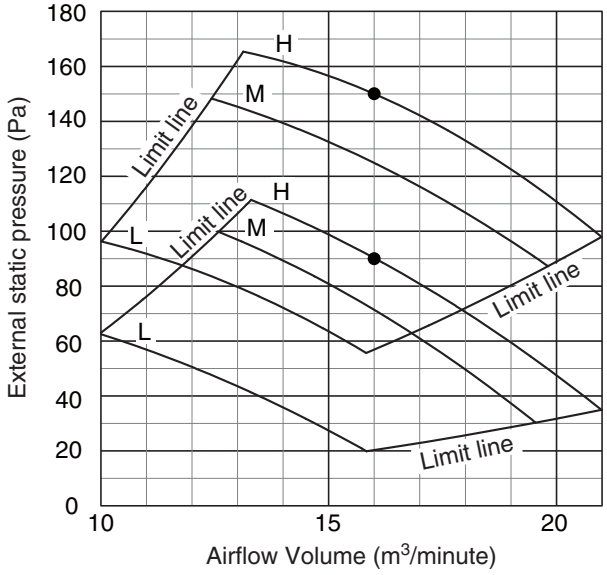
Indoor Units Type 3650 (50)



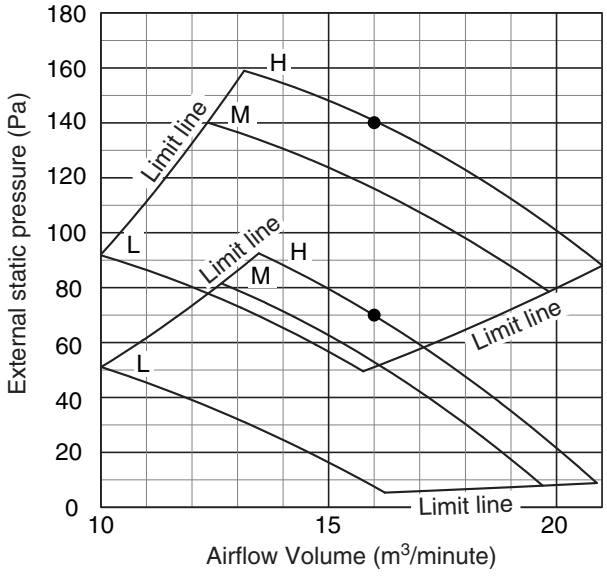
Indoor Fan Performance

PQ diagram (Fig. 1-7-2)

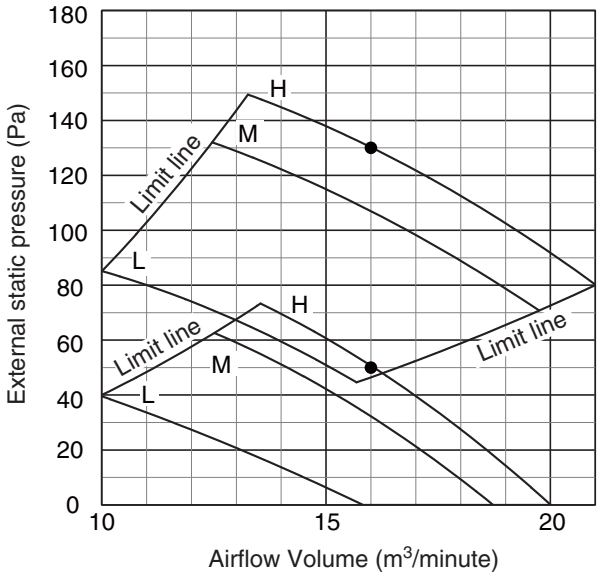
External static pressure 150Pa, 90Pa



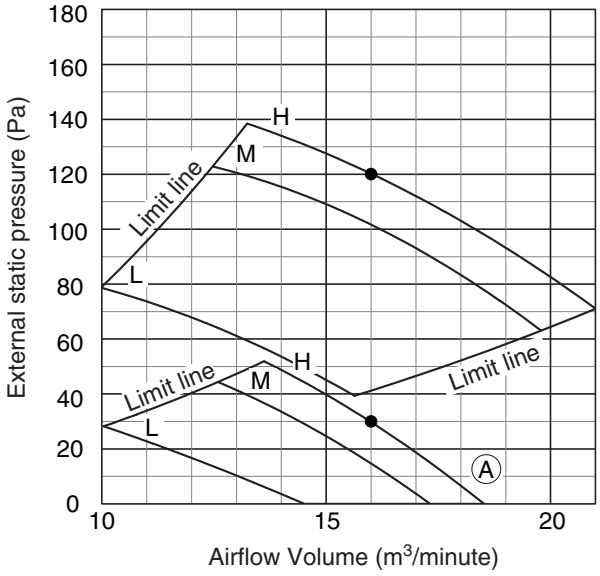
External static pressure 140Pa, 70Pa



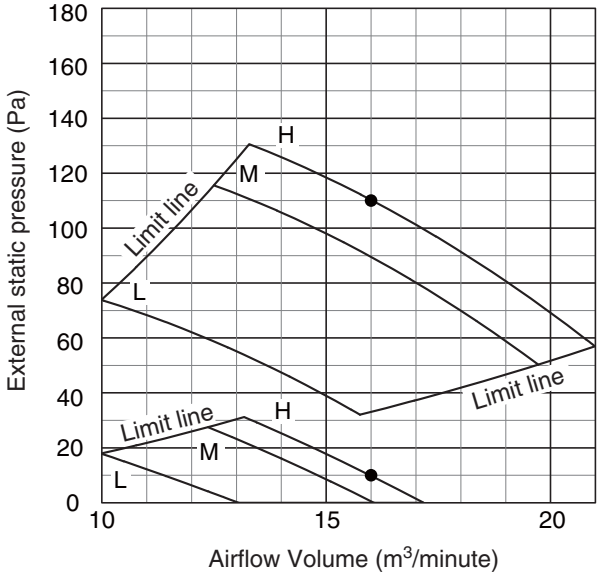
External static pressure 130Pa, 50Pa



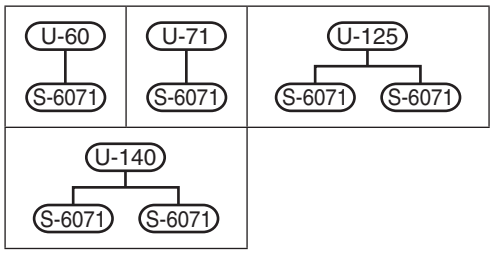
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



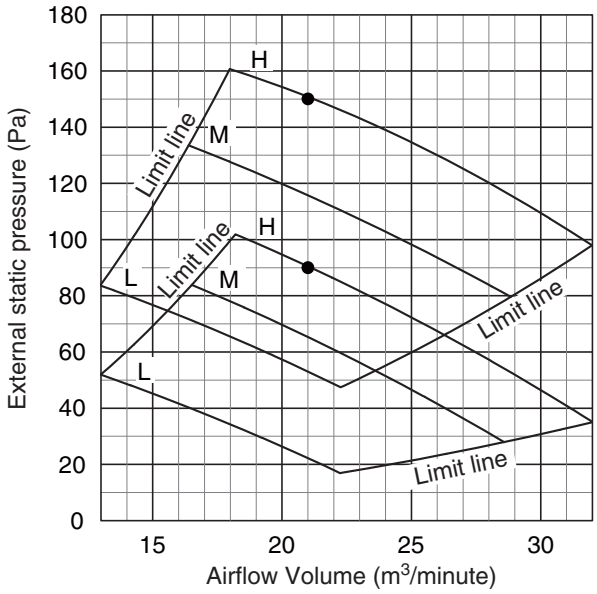
Indoor Units Type 6071 (60, 71)



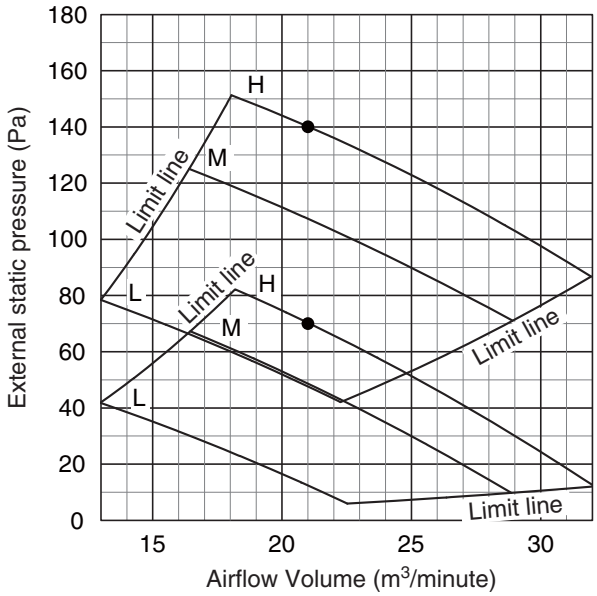
Indoor Fan Performance

PQ diagram (Fig. 1-7-2)

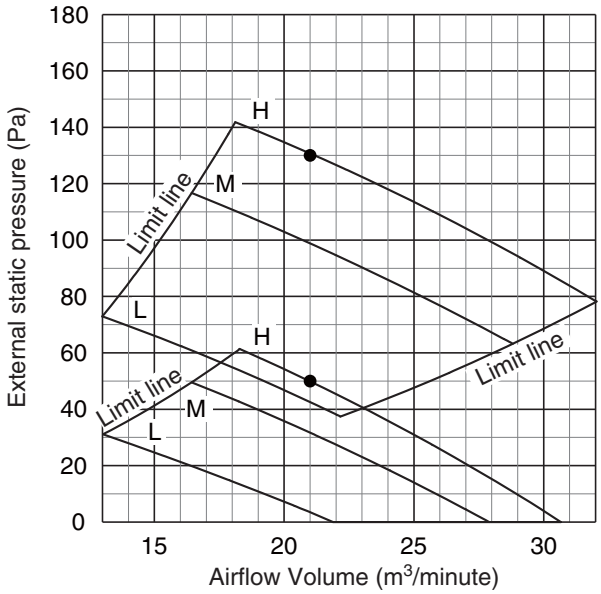
External static pressure 150Pa, 90Pa



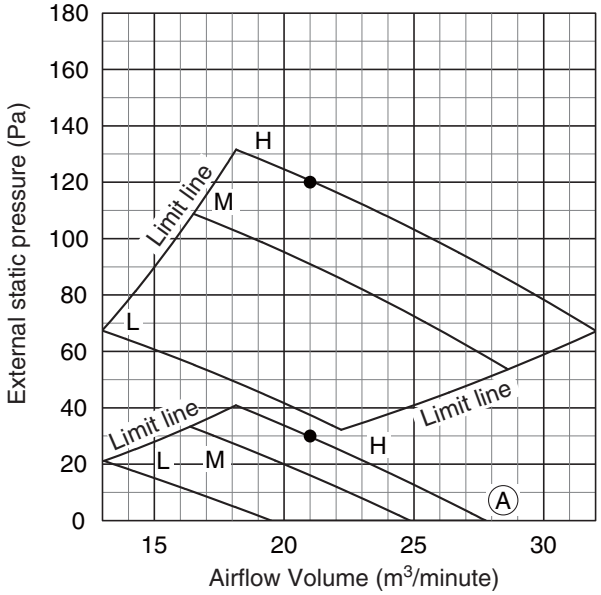
External static pressure 140Pa, 70Pa



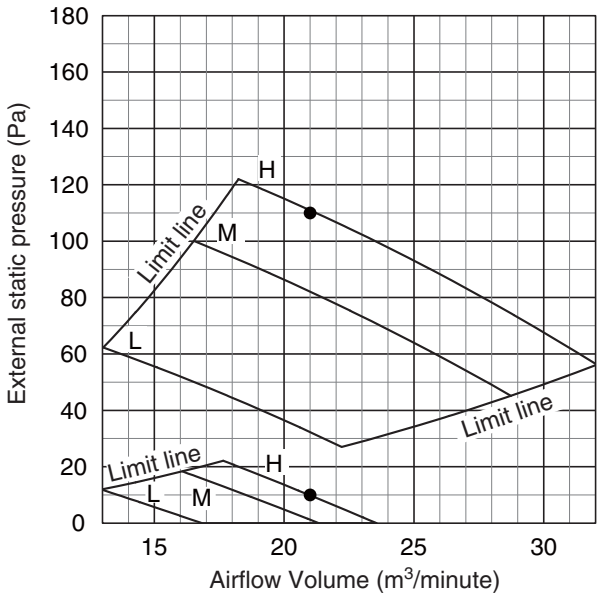
External static pressure 130Pa, 50Pa



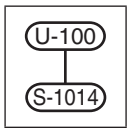
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



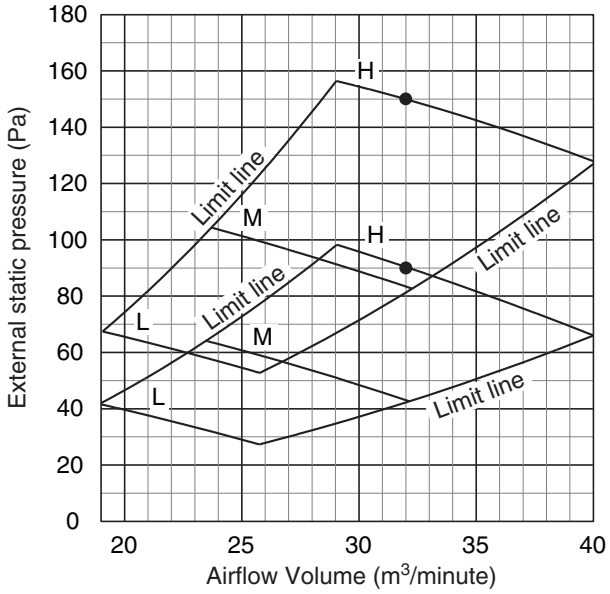
Indoor Units Type 1014 (100)



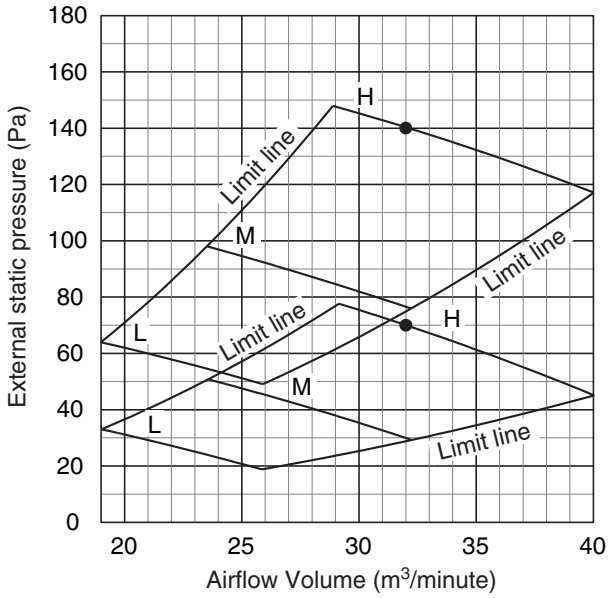
Indoor Fan Performance

PQ diagram (Fig. 1-7-2)

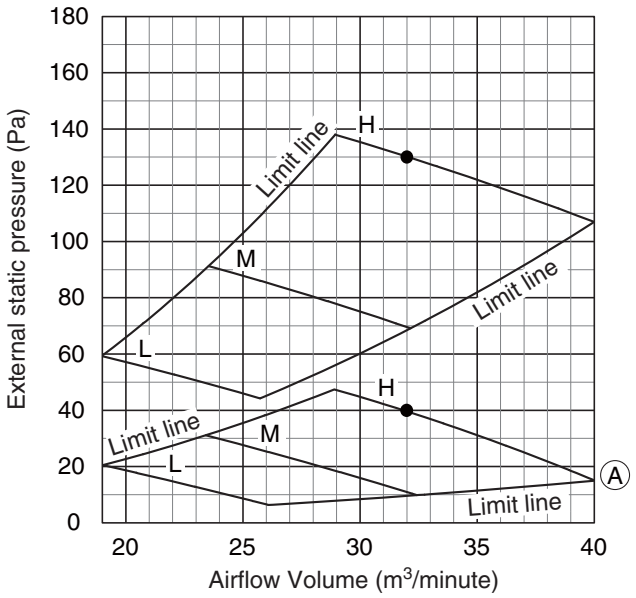
External static pressure 150Pa, 90Pa



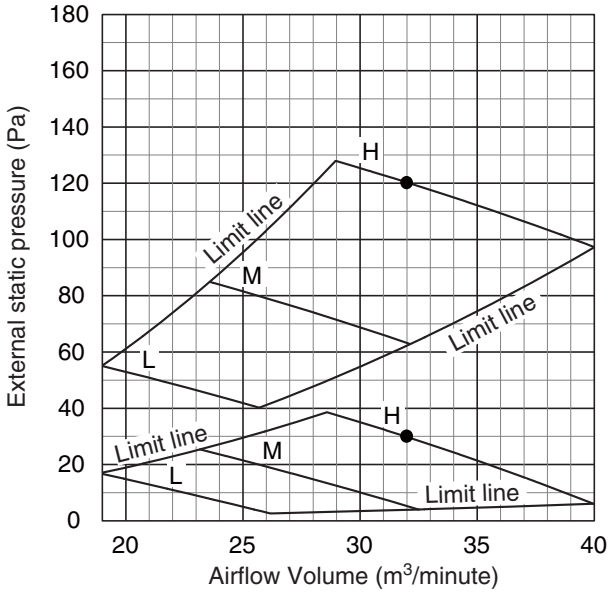
External static pressure 140Pa, 70Pa



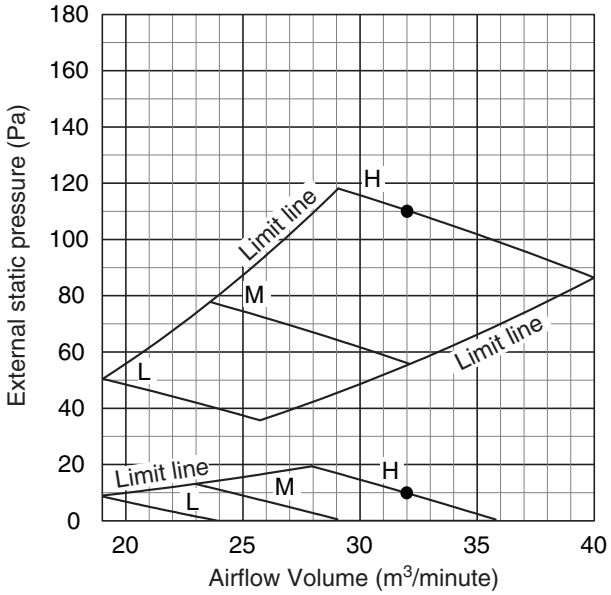
External static pressure 130Pa, 40Pa



External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



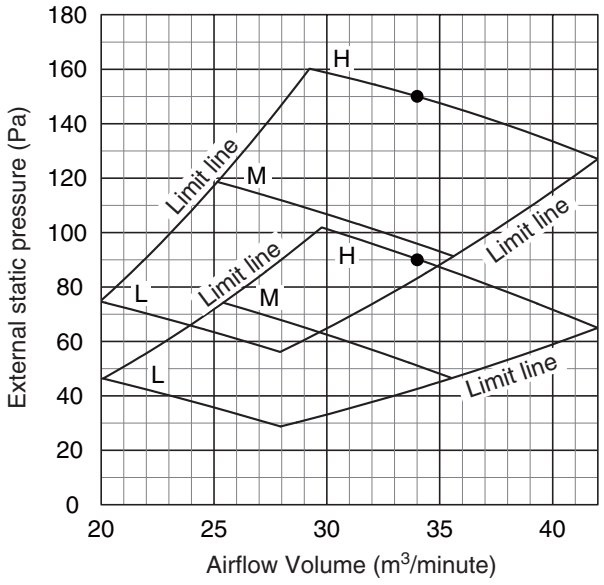
Indoor Units Type 1014 (125)

U-125
S-1014

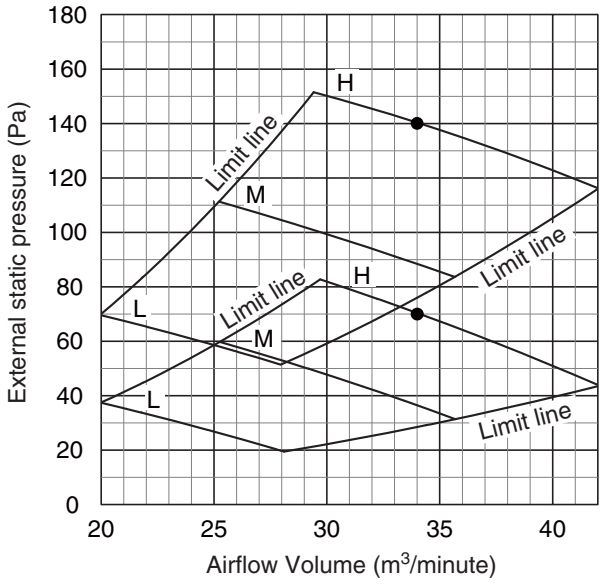
Indoor Fan Performance

PQ diagram (Fig. 1-7-2)

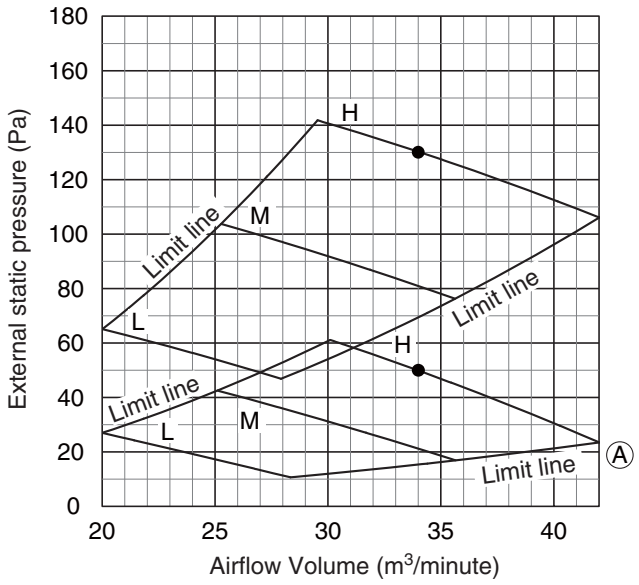
External static pressure 150Pa, 90Pa



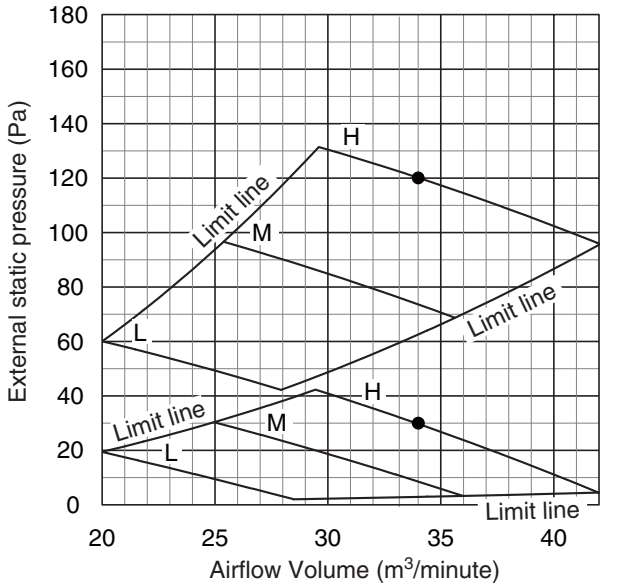
External static pressure 140Pa, 70Pa



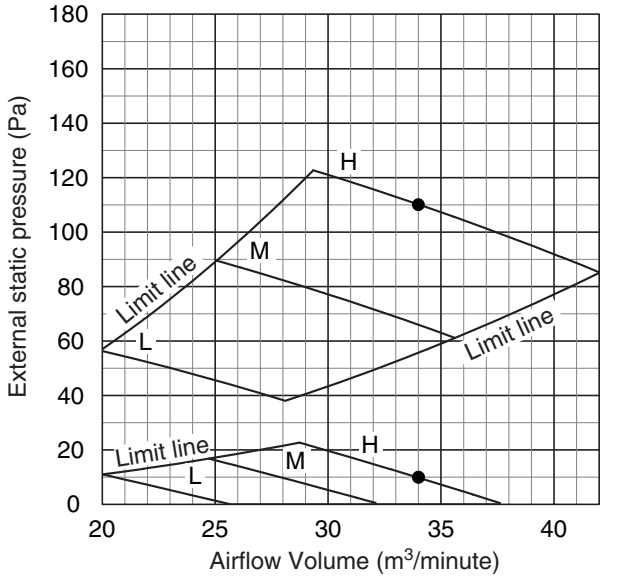
External static pressure 130Pa, 50Pa



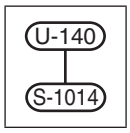
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



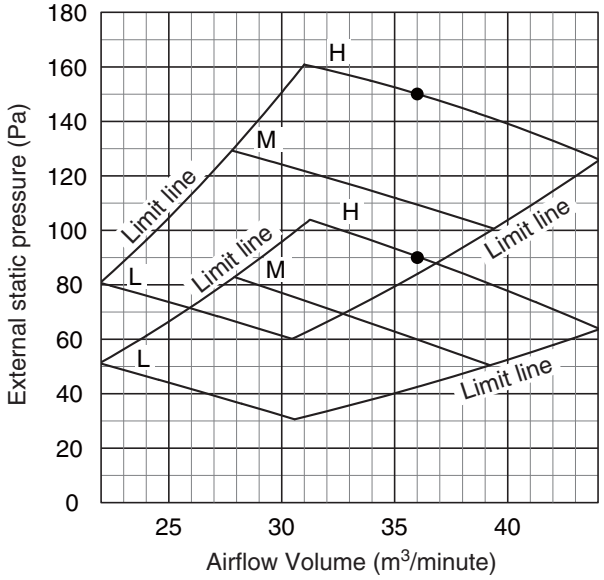
Indoor Units Type 1014 (140)



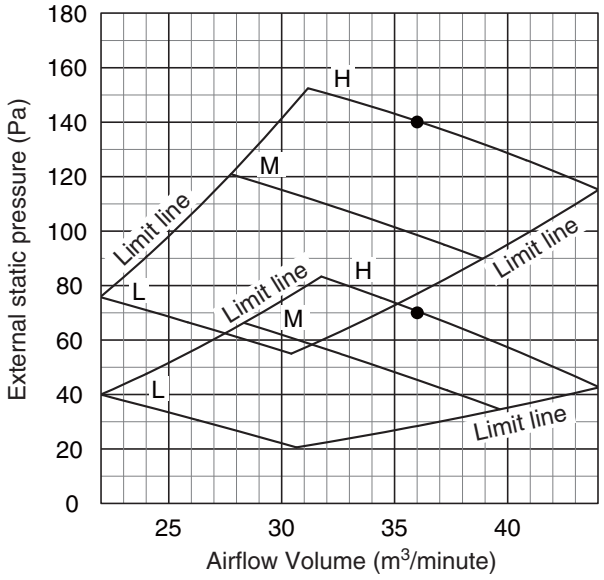
Indoor Fan Performance

PQ diagram (Fig. 1-7-2)

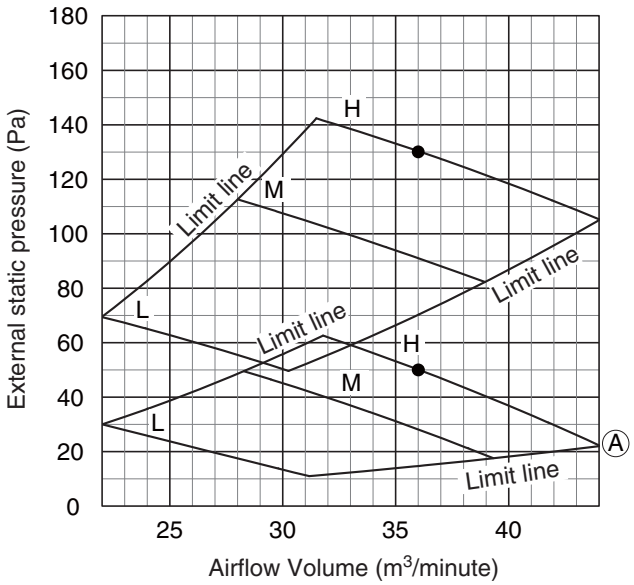
External static pressure 150Pa, 90Pa



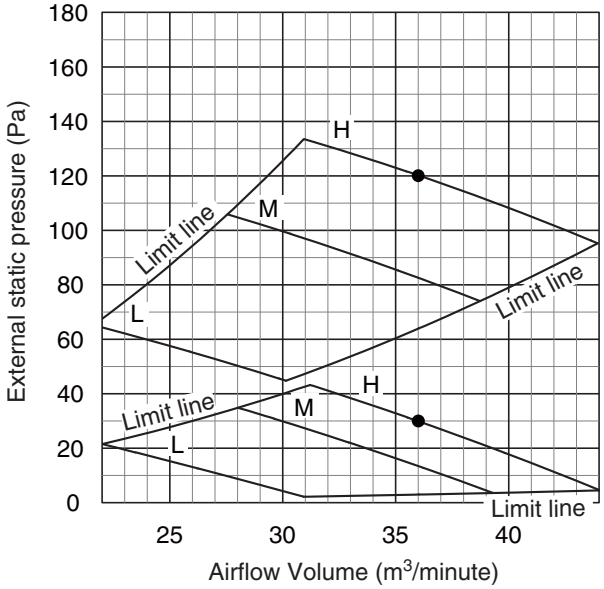
External static pressure 140Pa, 70Pa



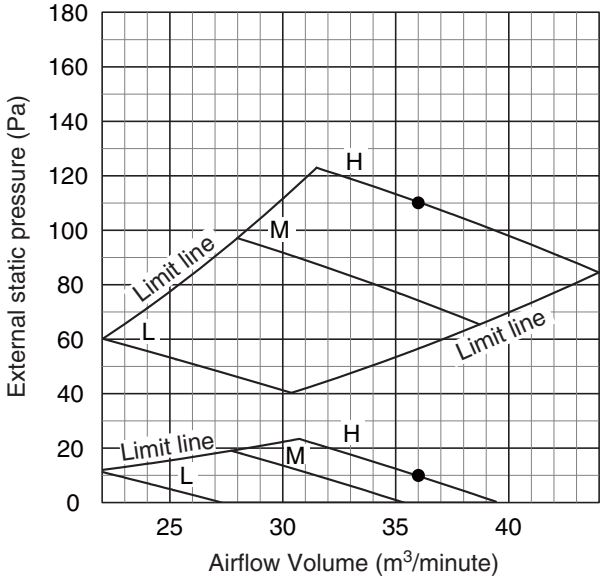
External static pressure 130Pa, 50Pa



External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa

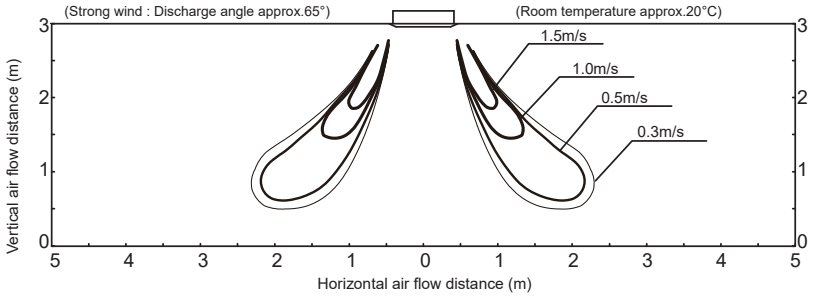


1-8. Airflow Distance Chart

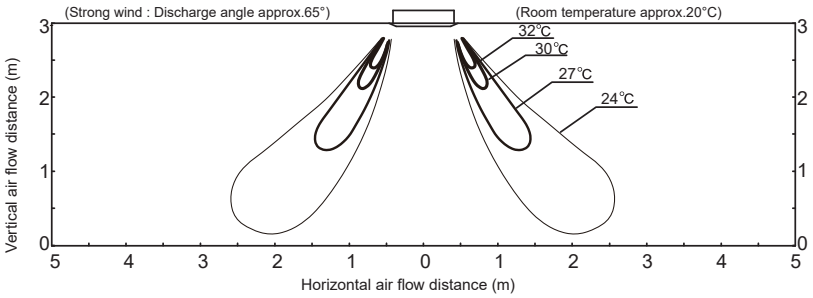
1-8-1. 4-Way Cassette Type

S-3650PU3E

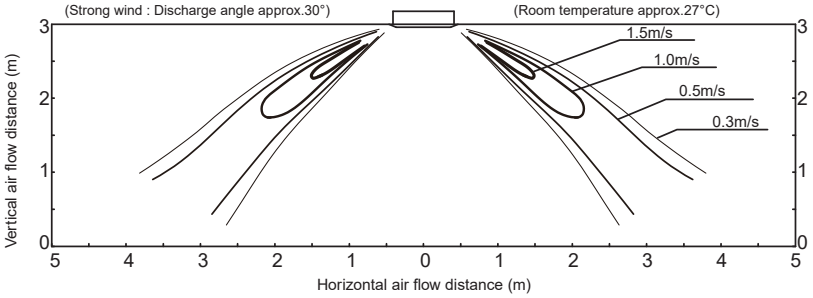
Heating : Distribution of wind velocity



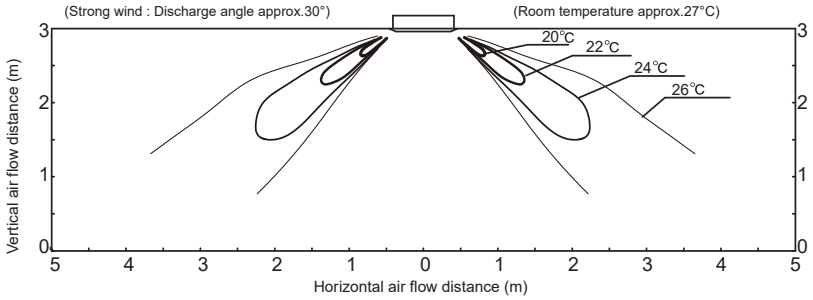
Heating : Distribution of temperature



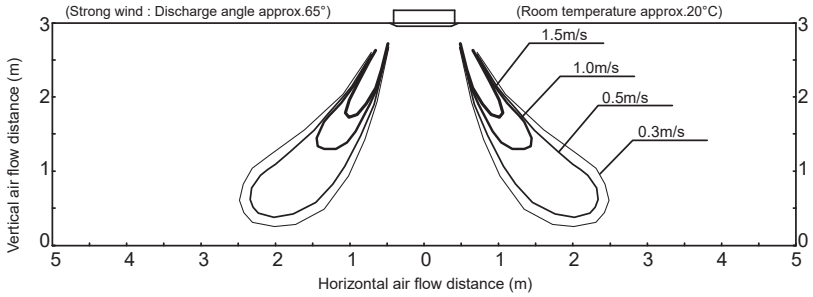
Cooling : Distribution of wind velocity



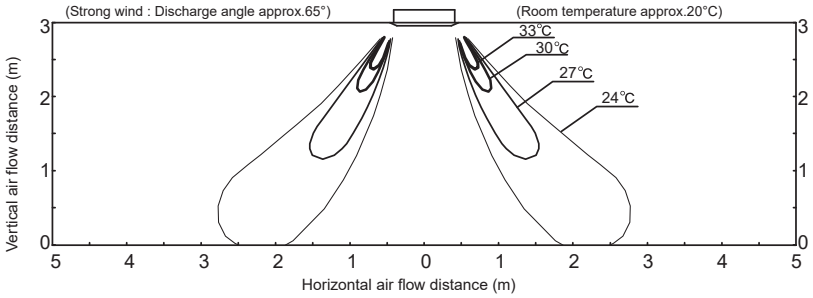
Cooling : Distribution of temperature



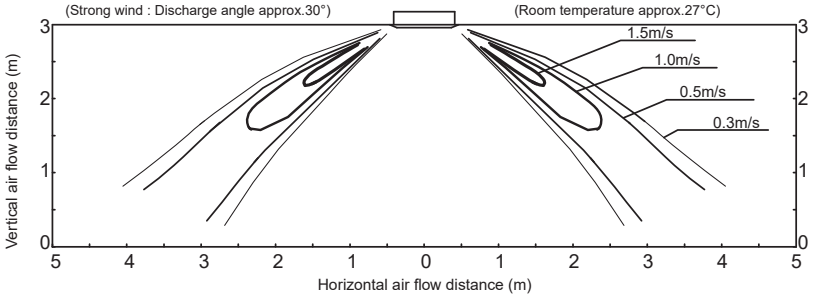
Heating : Distribution of wind velocity



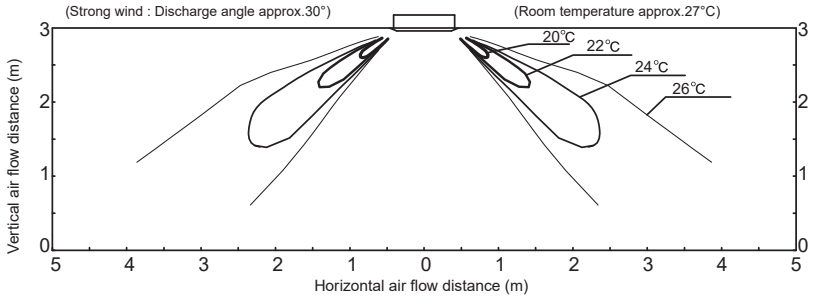
Heating : Distribution of temperature



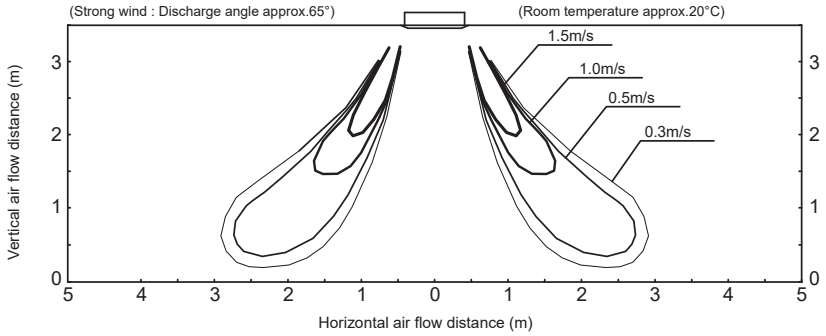
Cooling : Distribution of wind velocity



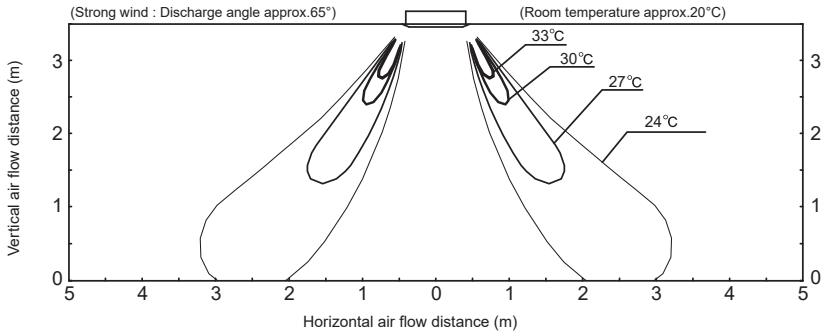
Cooling : Distribution of temperature



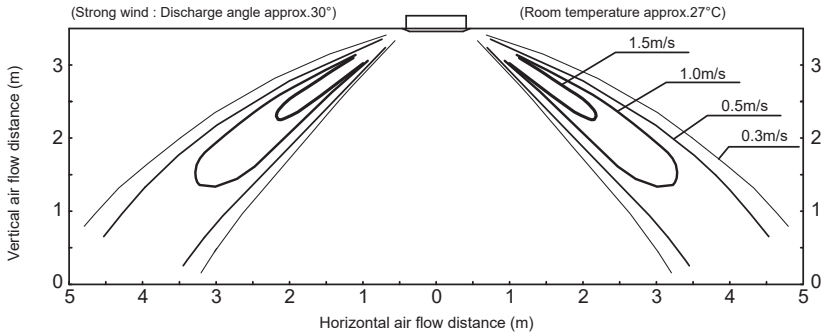
Heating : Distribution of wind velocity



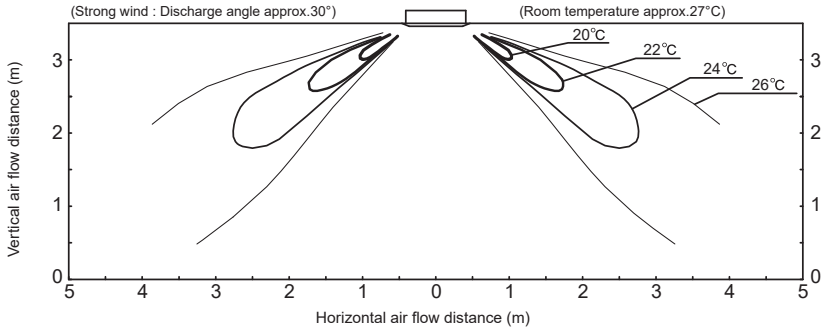
Heating : Distribution of temperature



Cooling : Distribution of wind velocity



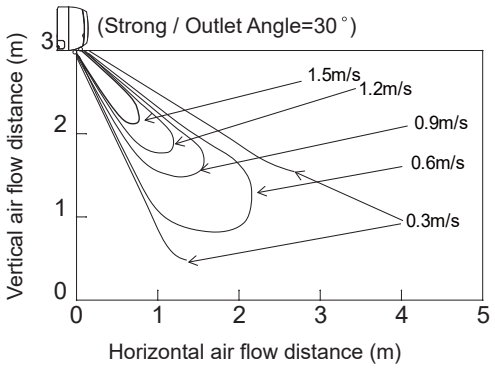
Cooling : Distribution of temperature



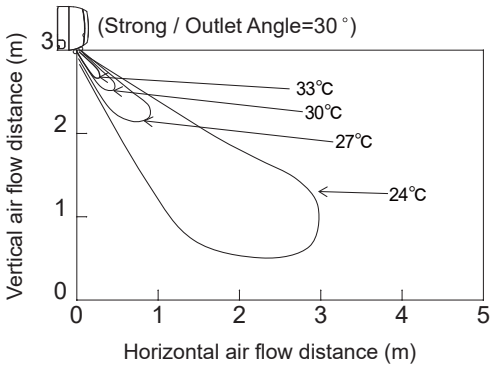
1-8-2. Wall Mounted Type

S-3650PK3E(36)

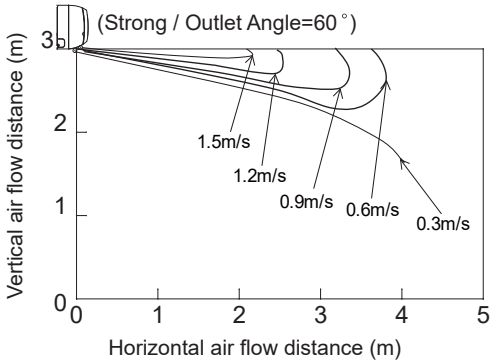
Air Flow 《Cooling》



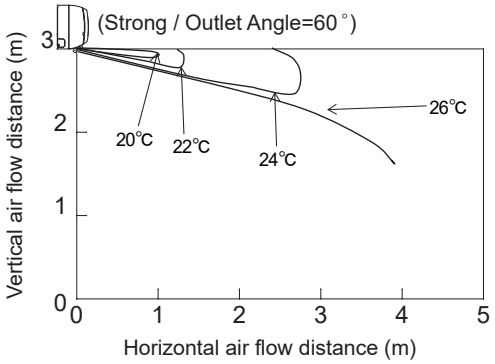
Temperature 《Cooling》



Air Flow 《Heating》

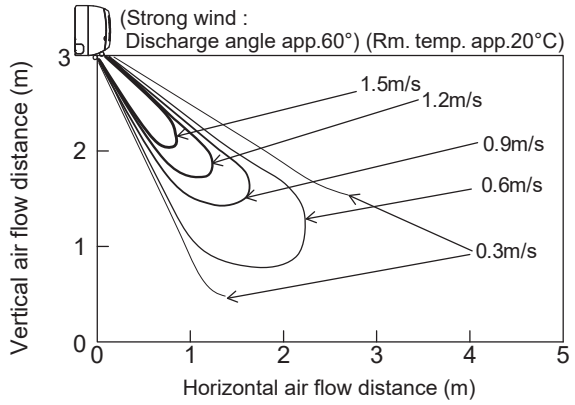


Temperature 《Heating》

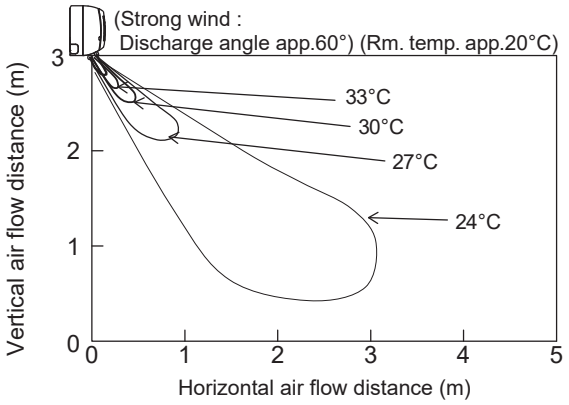


S-3650PK3E(45)

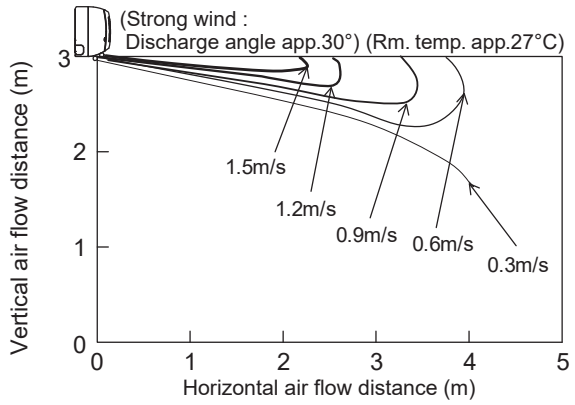
Heating : Distribution of wind velocity



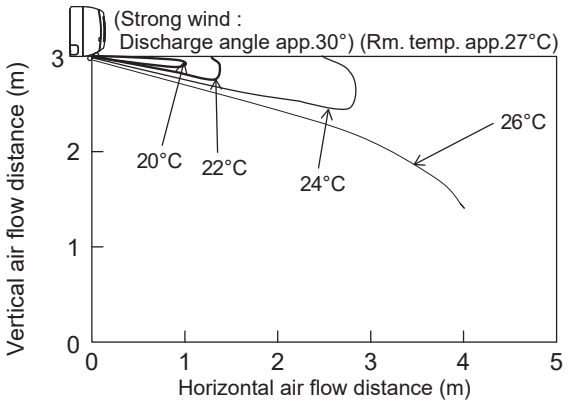
Heating : Distribution of temperature



Cooling : Distribution of wind velocity

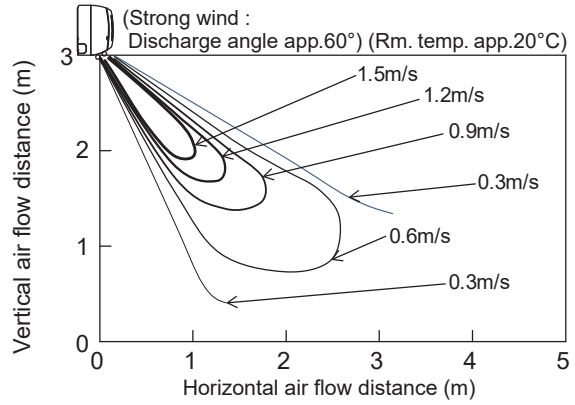


Cooling : Distribution of temperature

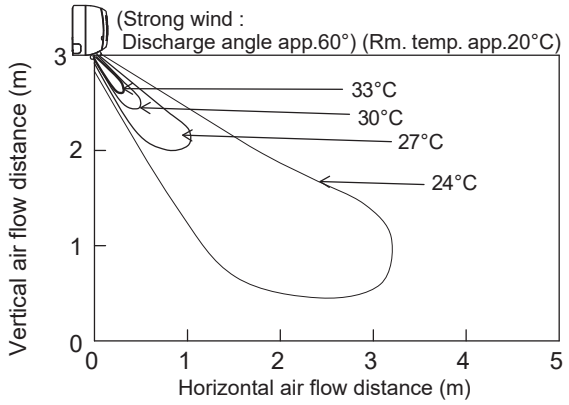


S-3650PK3E(50)

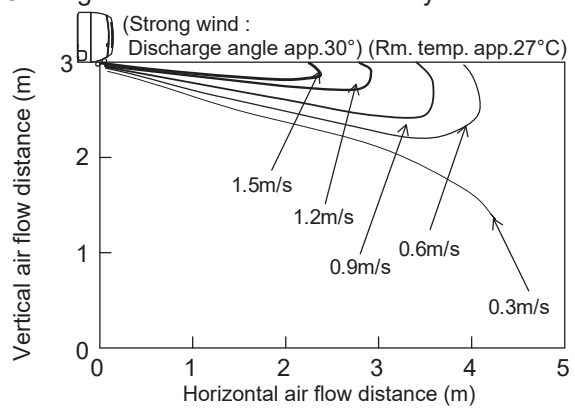
Heating : Distribution of wind velocity



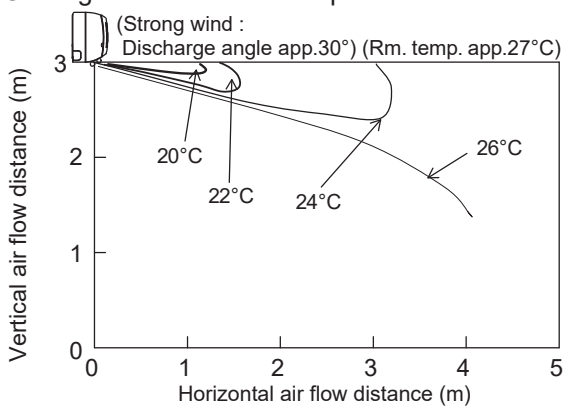
Heating : Distribution of temperature



Cooling : Distribution of wind velocity

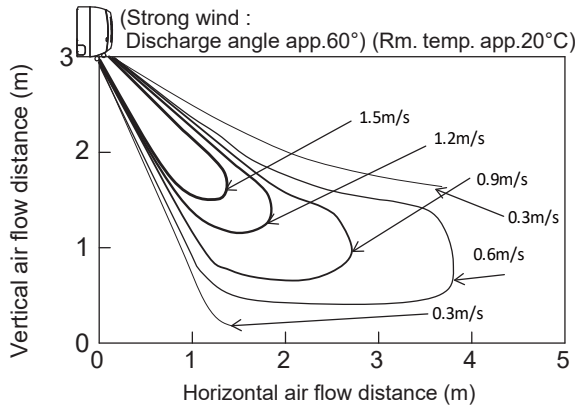


Cooling : Distribution of temperature

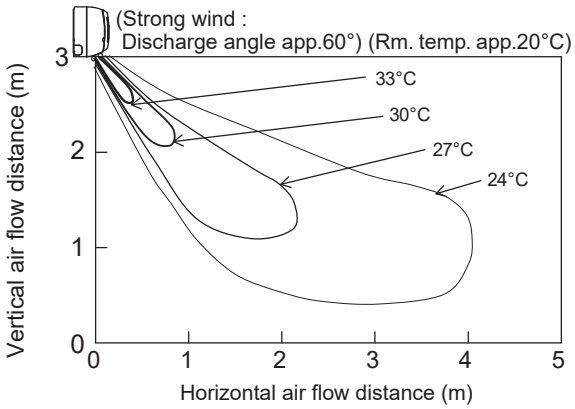


S-6010PK3E(60), S-6010PK3E(71)

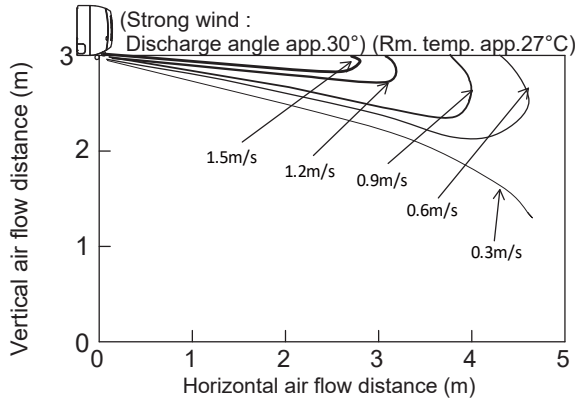
Heating : Distribution of wind velocity



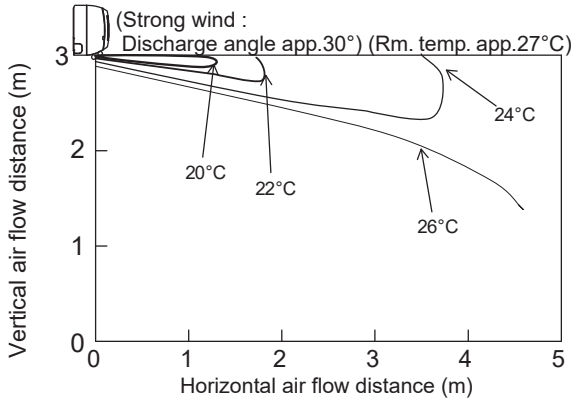
Heating : Distribution of temperature



Cooling : Distribution of wind velocity

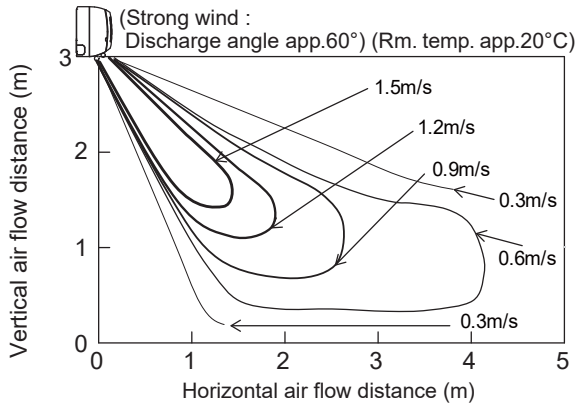


Cooling : Distribution of temperature

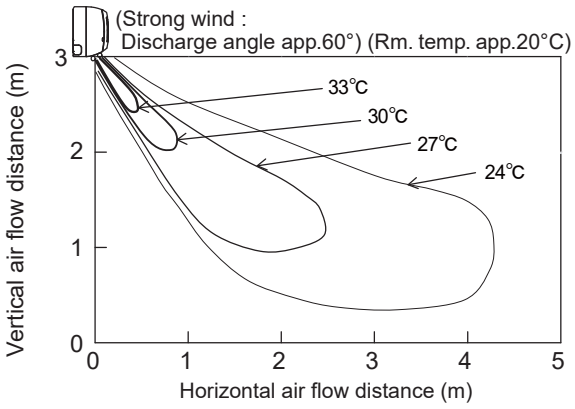


S-6010PK3E(100)

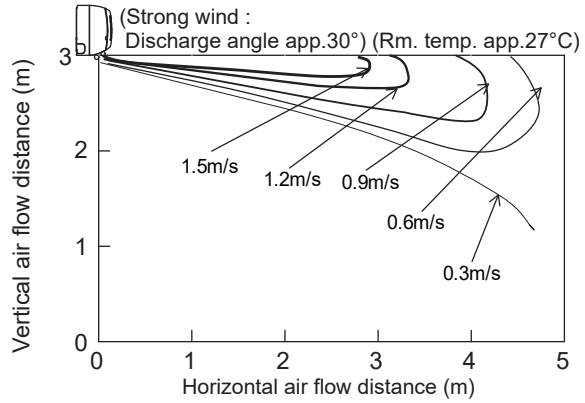
Heating : Distribution of wind velocity



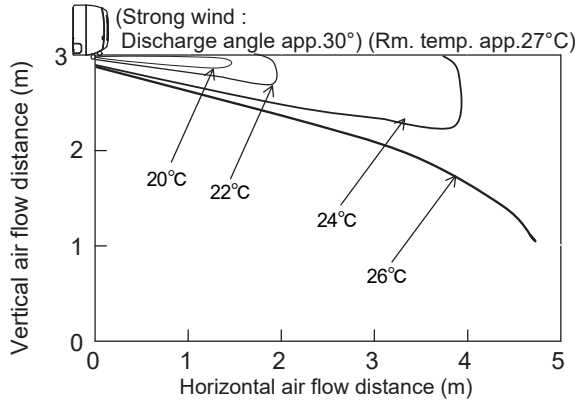
Heating : Distribution of temperature



Cooling : Distribution of wind velocity



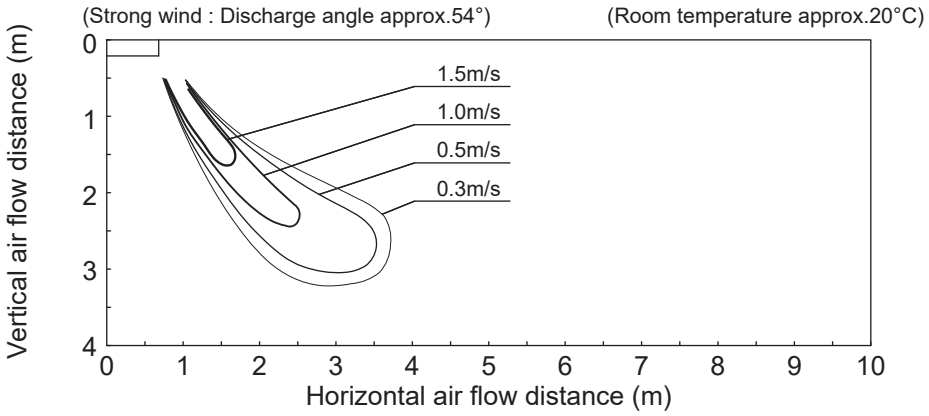
Cooling : Distribution of temperature



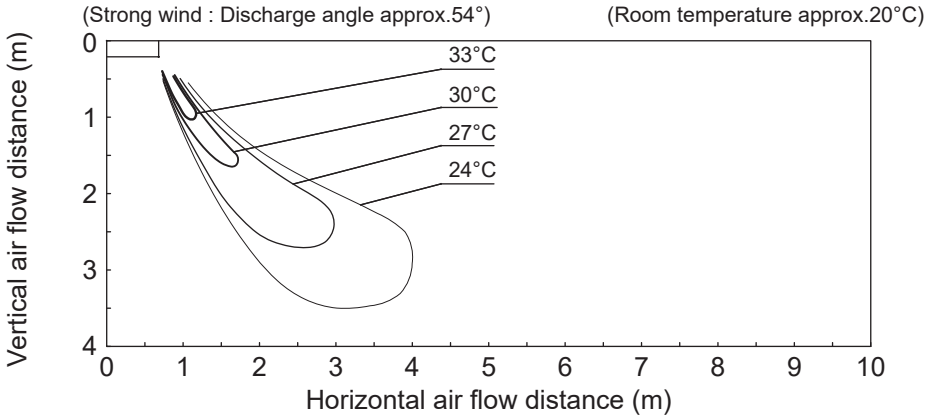
1-8-3. Ceiling Type

S-3650PT3E

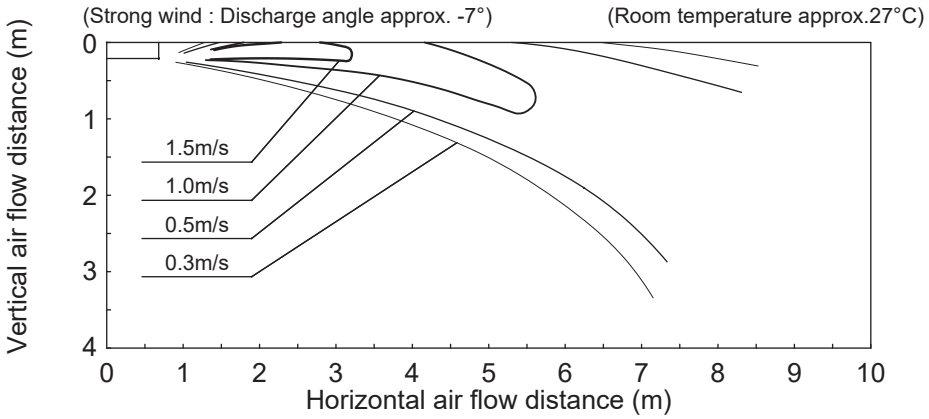
Heating : Distribution of wind velocity



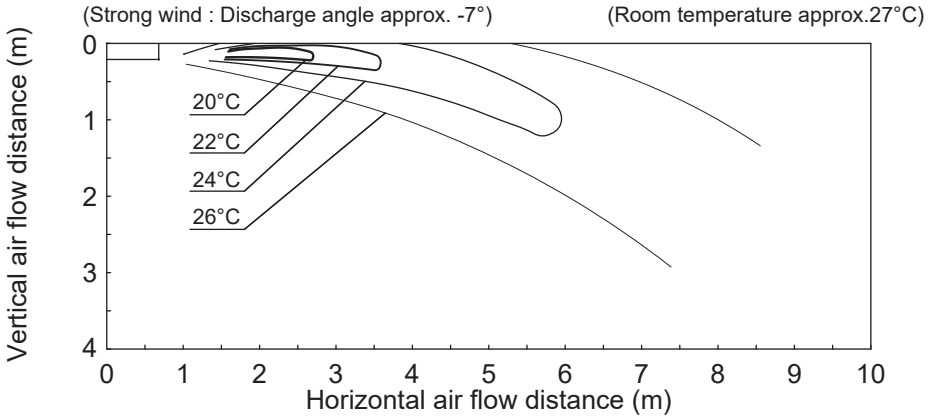
Heating : Distribution of temperature



Cooling : Distribution of wind velocity

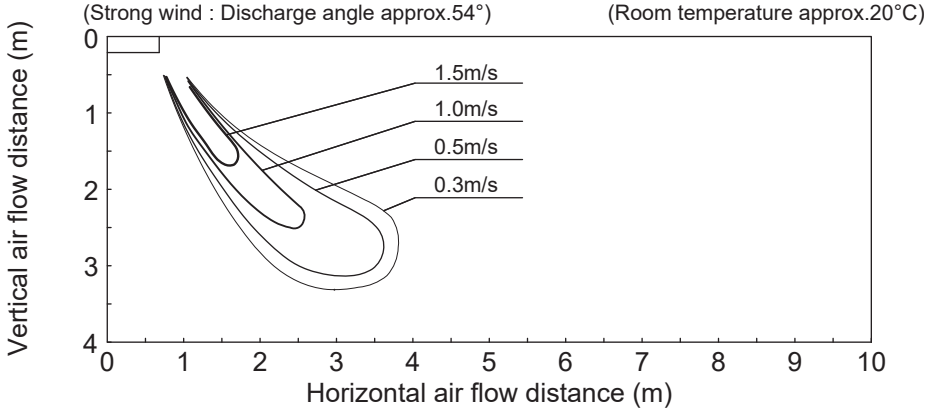


Cooling : Distribution of temperature



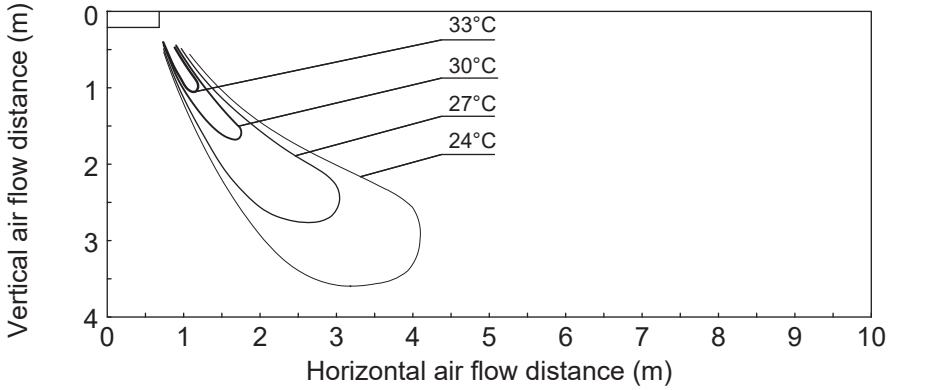
Heating : Distribution of wind velocity

(Strong wind : Discharge angle approx.54°) (Room temperature approx.20°C)



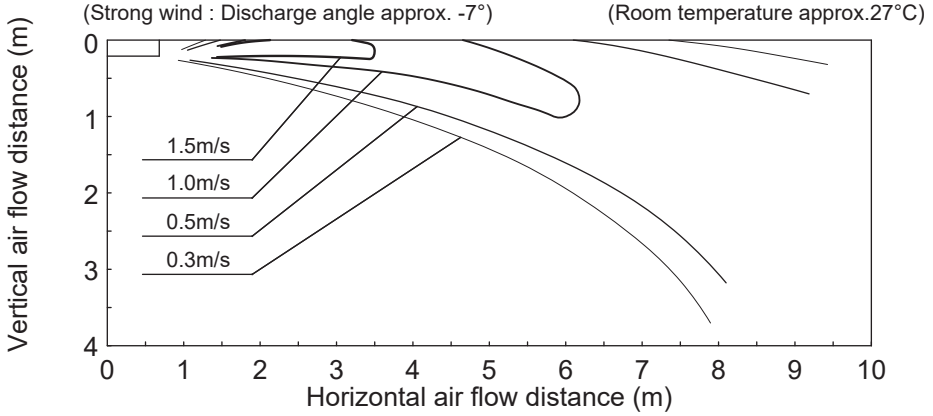
Heating : Distribution of temperature

(Strong wind : Discharge angle approx.54°) (Room temperature approx.20°C)



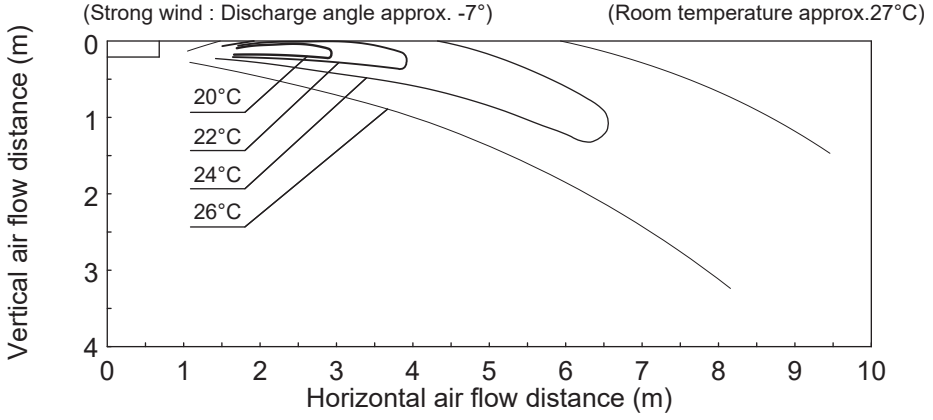
Cooling : Distribution of wind velocity

(Strong wind : Discharge angle approx. -7°) (Room temperature approx.27°C)

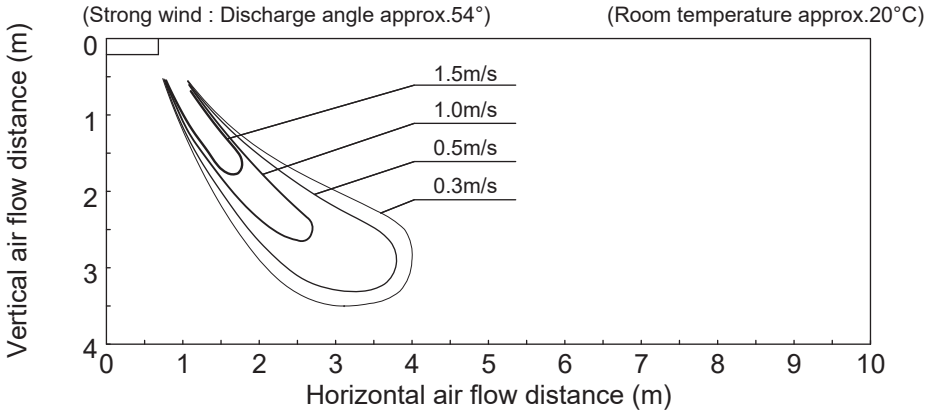


Cooling : Distribution of temperature

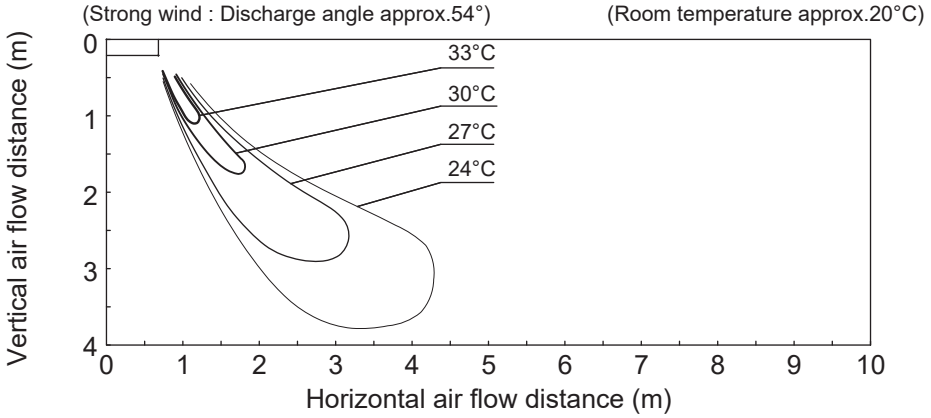
(Strong wind : Discharge angle approx. -7°) (Room temperature approx.27°C)



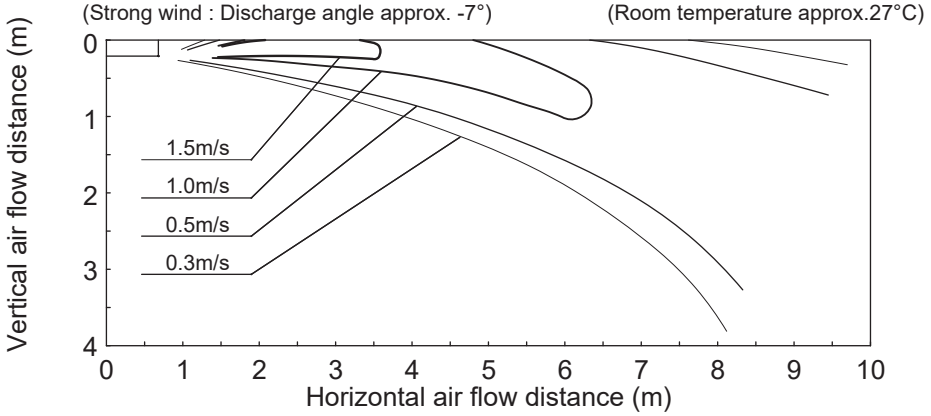
Heating : Distribution of wind velocity



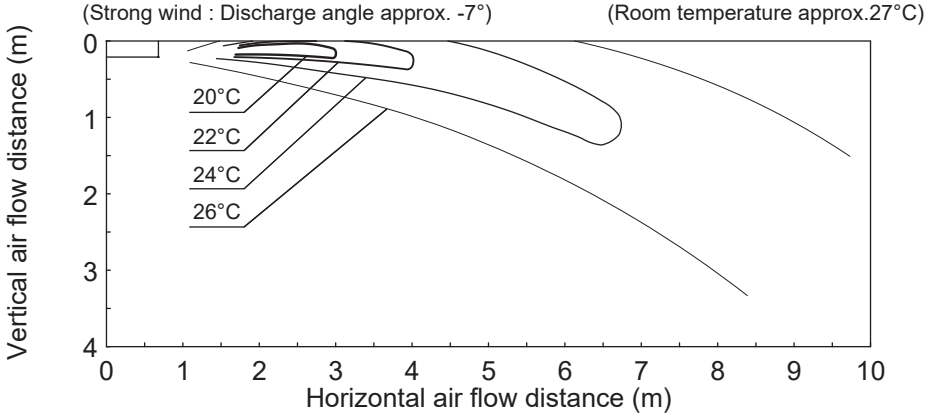
Heating : Distribution of temperature



Cooling : Distribution of wind velocity

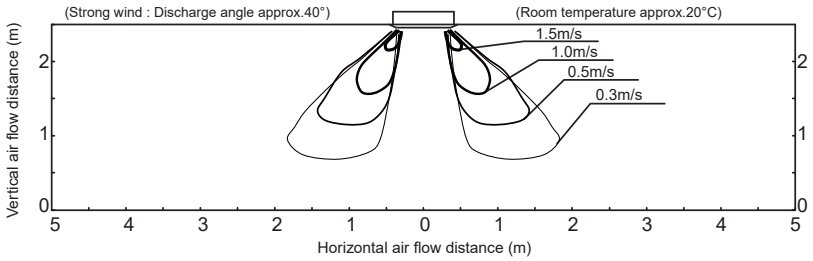


Cooling : Distribution of temperature

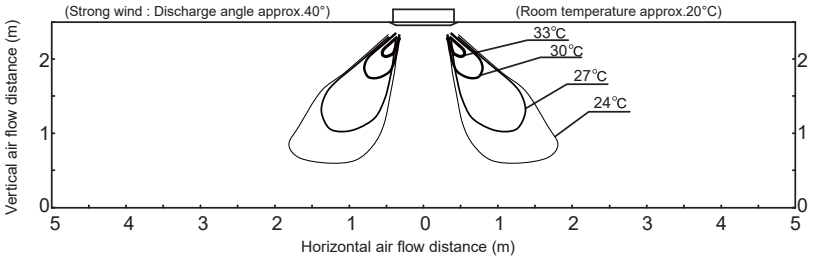


1-8-4. 4-Way Cassette 60 × 60 Type
S-25PY3E

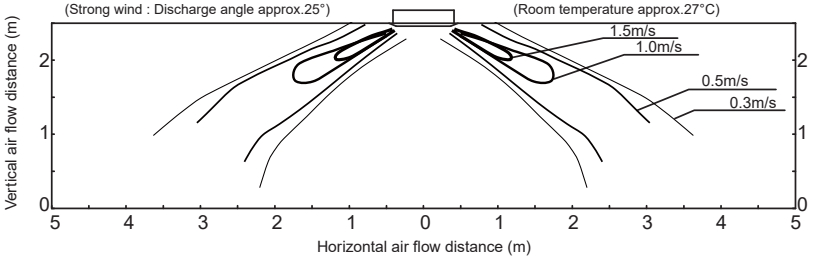
Heating : Distribution of wind velocity



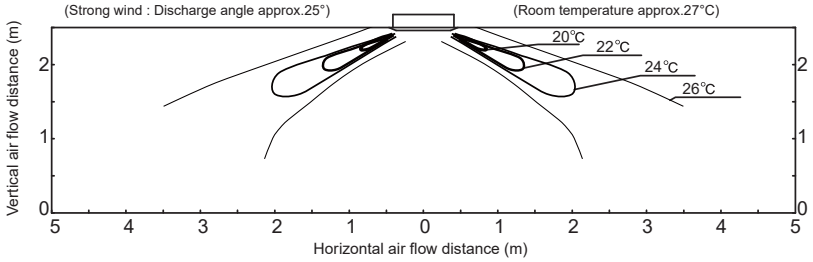
Heating : Distribution of temperature



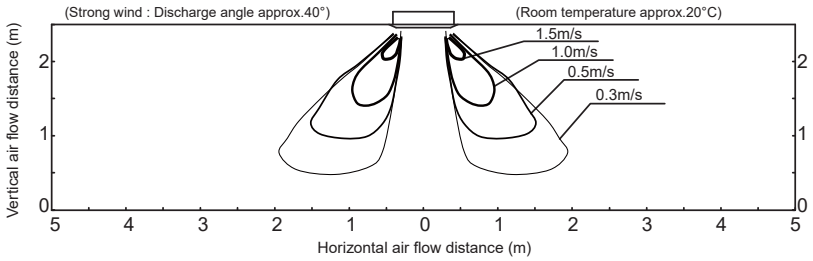
Cooling : Distribution of wind velocity



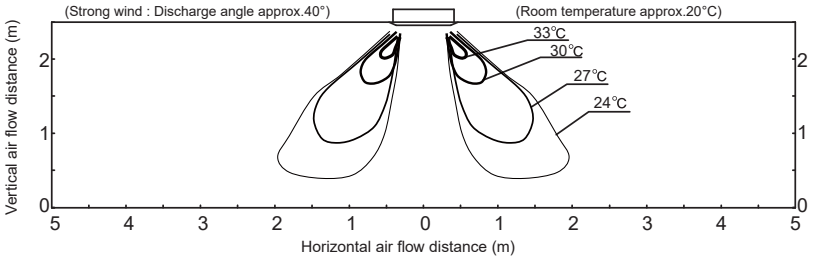
Cooling : Distribution of temperature



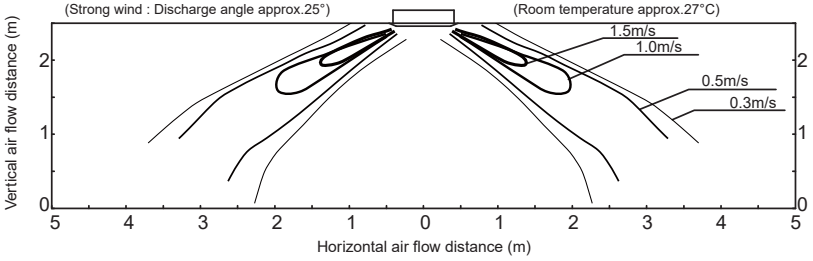
Heating : Distribution of wind velocity



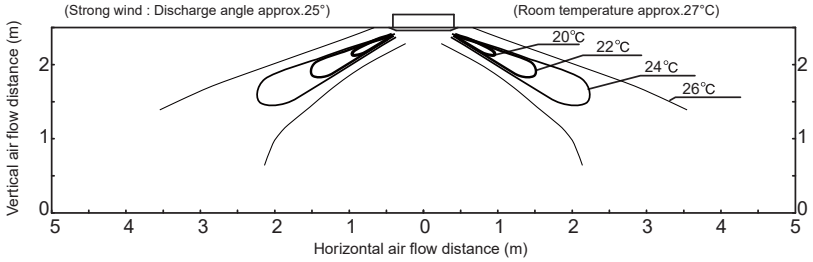
Heating : Distribution of temperature



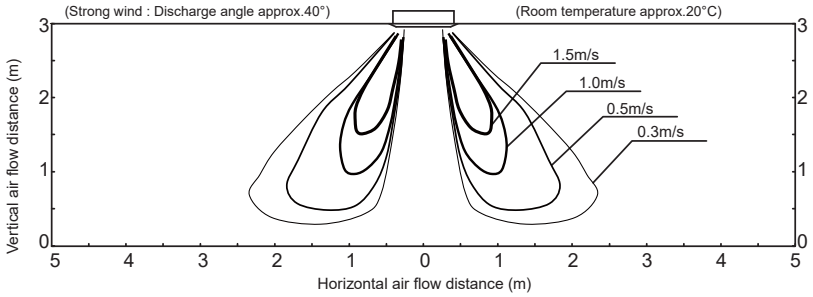
Cooling : Distribution of wind velocity



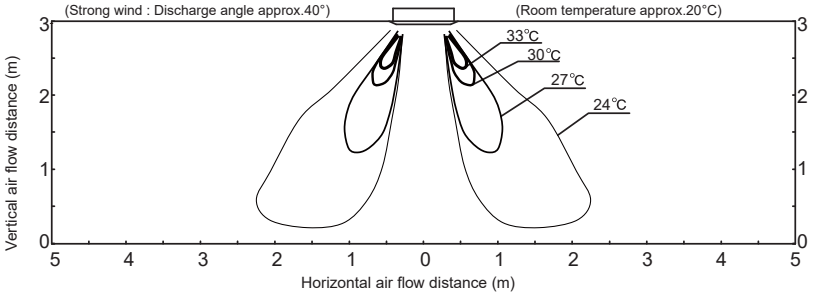
Cooling : Distribution of temperature



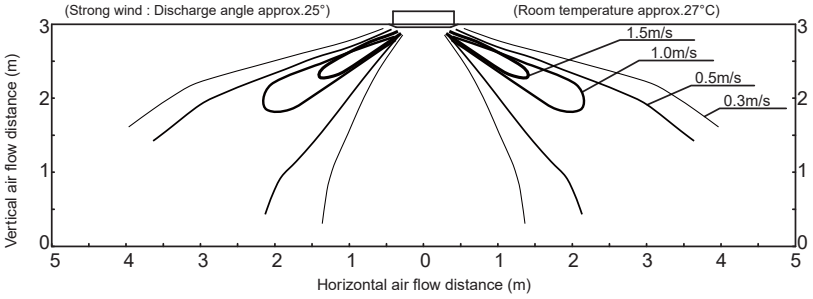
Heating : Distribution of wind velocity



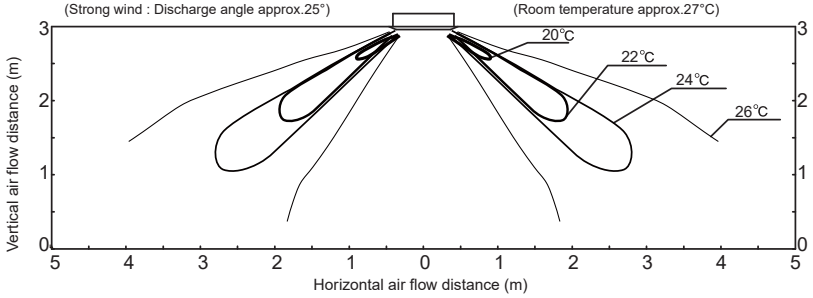
Heating : Distribution of temperature



Cooling : Distribution of wind velocity

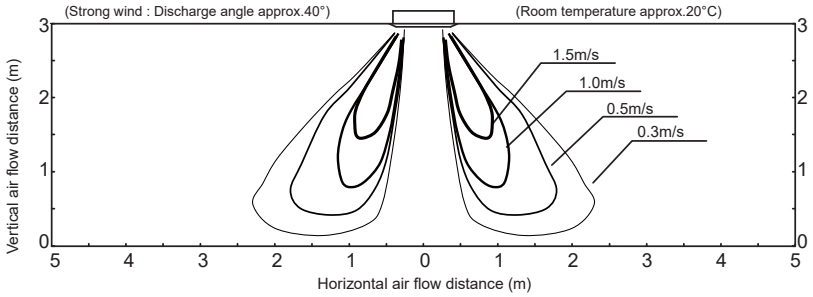


Cooling : Distribution of temperature

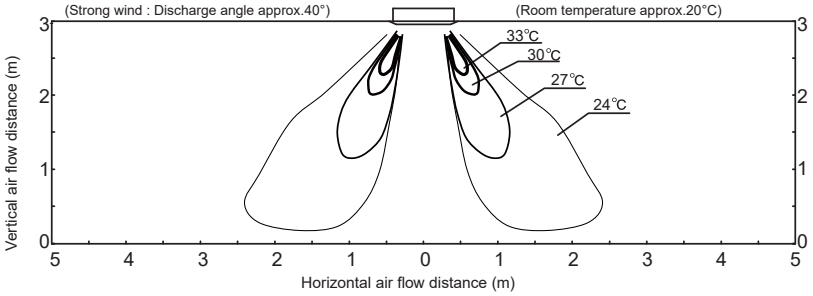


S-60PY3E

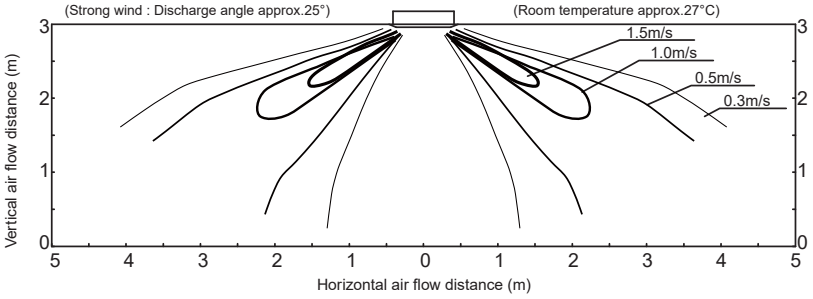
Heating : Distribution of wind velocity



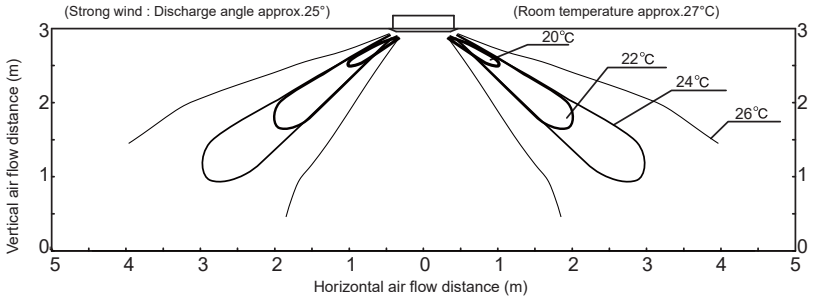
Heating : Distribution of temperature



Cooling : Distribution of wind velocity



Cooling : Distribution of temperature



1-9. Fresh Air Intake

1-9-1. Precautions Regarding External Air Intake

(1) Ventilation Load

Ensure that the design of the air-conditioner takes air-conditioning loads into consideration when external air intake is involved.

(2) Restrictions on External Air Intake

Ensure that the design conforms to the restrictions on air intake volume stipulated in accordance with the model of the indoor unit and the intake method. Consideration must also be taken to mixed air content listed in (3) below without fail.

* If the air intake volume does not satisfy the required ventilation volume, air must be fed into the room separately with the use of a total heat exchanger or a fresh air processing air-conditioner, etc.

(3) Mixed Air

The amount of external air intake must be set within the scope of the unit's usage conditions when external air and internal air is mixed together. This is especially important in the following cases, in which it is necessary to either feed external air into the room after it has been processed or reduce the amount of external air that is fed in.

① When the external dew-point temperature is greater than the dry-bulb temperature of the air sucked into the unit
Ensure that processing is performed so that the external dew-point temperature is lower than the temperature of the air sucked into the unit to prevent the risk of condensation building up.

② In the case of low external temperatures
There are cases in which the temperature of mixed air is lower than the operating range of the unit if excessive amounts of external air intake are used when the external temperature is low.
This problem is to be solved by either feeding external air into the room after it has been processed or reducing the amount of external air that is fed in.

③ When used in combination with humidifiers
External air must always be processed when the external air temperature reaches freezing point to prevent the risk of the humidifier freezing.

(4) Arranging Ducts and Filters in the Field

External air intake ducting must be arranged in the field.
External air filters must also be installed without fail in order to prevent the intake of dust and grit.

(5) Thermal Insulation for Ducts

Ensure that all external air intake ducting is heat-insulated without fail. Failure to observe this may result in the build-up of condensation.

(6) External Air Intake Coupling

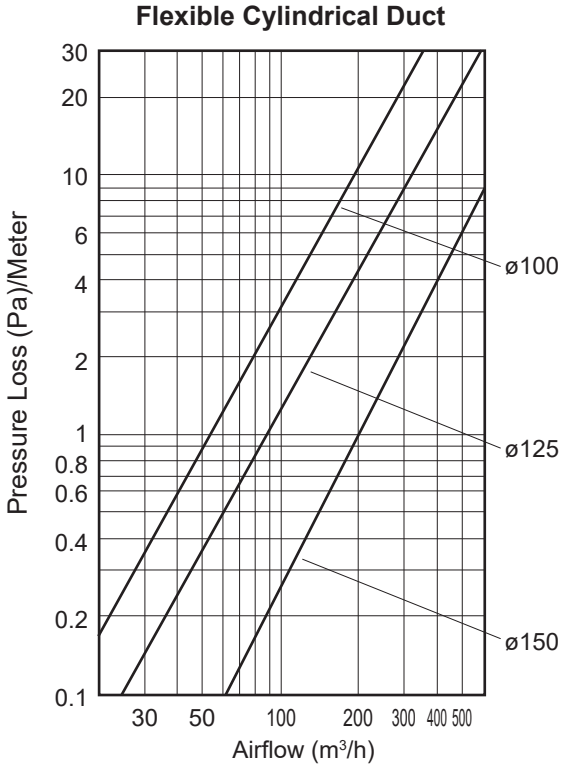
Ensure that the design for external air intake is coupled with the fan blower operations of the indoor unit.
There are cases in which the dust that accumulates in the filter is blown into the room if the external air is fed from the filter. There are also cases in which the noise of external air being fed into the room can be heard from the indoor unit if external air is forcibly fed when the booster fan or other components on the indoor unit are not operating.

(7) Booster Fan Selection

Select the booster fan in accordance with the resistance of the external air intake duct (diagram on the pressure loss characteristics of the air flow volume for flexible cylindrical ducts) and the resistance prevalent inside the unit (external air intake volume & resistance within unit / operation noise characteristics).

(8) Attaching the External Air Intake Flange

Regarding the installation direction of the external air intake duct, refer to the Installation Instructions provided with the external air intake duct.



Air Flow Volume for Flexible Cylindrical Duct-Pressure Loss

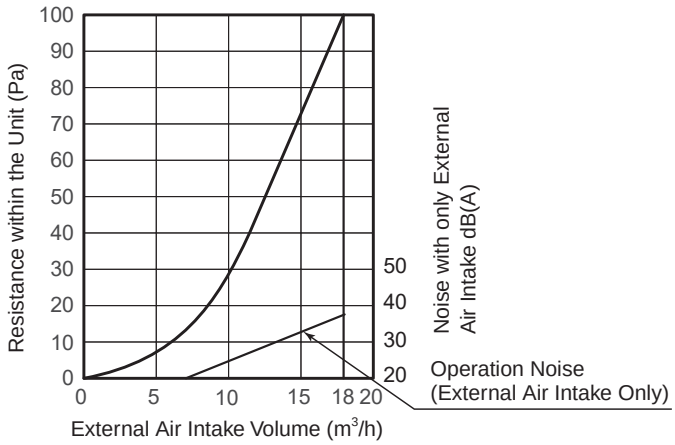
1-9-2. External Air Intake Volume & Resistance Within Unit / Operation Noise Characteristics

CAUTION **Use the following diagram along with the section "1-9-1. Precautions Regarding External Air Intake"**

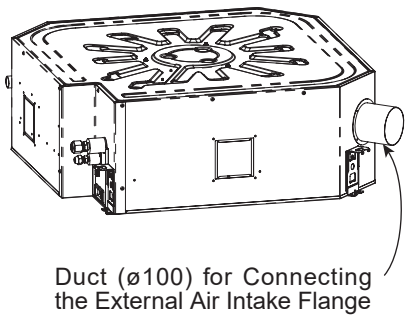
1-9-2-1. 4-Way Cassette Type

■ **When an External Air Intake Flange (ø100) is in Use**

External Air Intake Volume and Resistance and Operation Noise Characteristics within the Unit



With the External Air Intake Flange Attached



- Calculate the operation noise when external air is being fed by combining the noise when only external air is being fed as shown in the graph for operation noise characteristics and the operation noise of the unit as stipulated in the catalogue.
- The operation noise conforms to JIS standards and constitute measurements taken in an anechoic chamber 1.5 m directly beneath the indoor unit. Under normal circumstances, the values shown here are greater owing to the effects of surrounding noise and reverberation when the unit is actually installed.

The amount of external air that is possible to feed when it is fed directly into the unit (ø100)

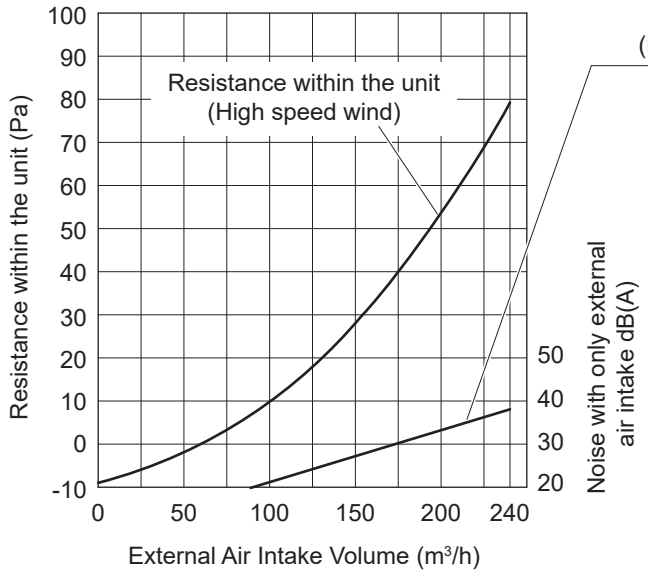
Type	S-3650PU3E	S-6071PU3E	S-1014PU3E
Permissible Air Intake Volume (m³/h)	15	17 (60)* 18 (71)*	18

* For S-6071PU3E (60) and S-6071PU3E(71), see the Combination Table items 60 and 71 on page 20 to 22.

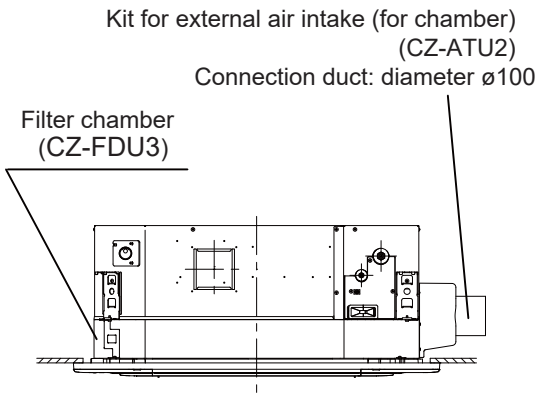
NOTE

The operation noise for models that use small units is lower, so use values that are within the range shown in the above table. Using values that exceed these will result in noise when only external air is fed being louder than the noise emitted from the unit.

■ In a Case of External Air Intake Using Air Intake Chamber (CZ-FDU3+CZ-ATU2)



External Air Intake Volume & Resistance Within Unit/ Operation Noise Characteristics



With the External Air Intake Chamber Attached

1. Calculate the operation noise when external air is being fed by combining the noise when only external air is being fed as shown in the diagram for operation noise characteristics and the operation noise of the unit as stipulated in the catalogue.
2. The operation noise conforms to JIS standards and constitute measurements taken in an anechoic chamber 1.5m directly below the indoor unit. Under normal circumstances, the diagram shown above is greater owing to the effects of surrounding noise and reverberation when the unit is actually installed.

The amount of external air that is possible to feed when external air intake chamber is in use (CZ-FDU3+CZ-ATU2)

Type	S-3650PU3E	S-6071PU3E	S-1014PU3E
Permissible air intake volume (m^3/h)	180	190 (60)* 240 (71)*	240

* For S-6071PU3E (60) and S-6071PU3E (71), see the Combination Table items 60 and 71 on page 20 to 22.

* The operation noise for models that use small units is lower, so use values that are within the range shown in the above table. Using values that exceed these will result in noise when only external air is fed being louder than the noise emitted from the unit.

● **Sample selection of booster fans**

In a case of necessity at 200m^3/h of external air intake:

1. Resistance within the unit Diagram from "Resistance within the unit" 55 Pa
2. Duct resistance in case of duct with 4m length

Duct resistance	Diagram from "Air Flow Volume for Flexible Cylindrical Duct-Pressure Loss"	40 Pa	(=10 Pa/m × 4m)
		Total 95 Pa	

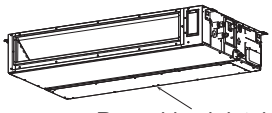
Therefore, a booster is required to save a total 95 Pa of static pressure.

1-9-2-2. Middle Static Pressure Duct Type

■In a Case of External Air Intake to Unit Directly (Using external air intake cylindrical flange)

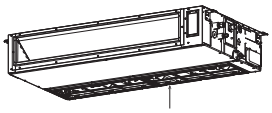
The amount of external air intake depending on the following installation patterns CaseA to CaseD. Please see the figure and table below for details.

Case A (Standard installation)
Horizontal installation in the ceiling, rear side air intake

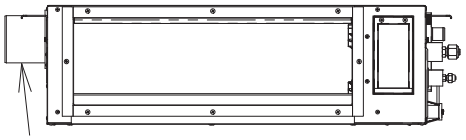


Rear side air intake

Case B
Horizontal installation in the ceiling, lower side air intake



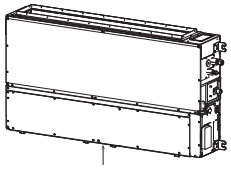
Lower side air intake



External air intake cylindrical flange
Connection duct: diameter ø100

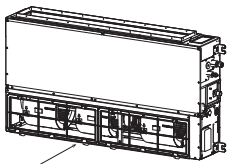
With the External Air Intake Flange Attached

Case C
Vertical installation on the sidewall, lower side air intake



Lower side air intake

Case D
Vertical installation on the sidewall, front side air intake



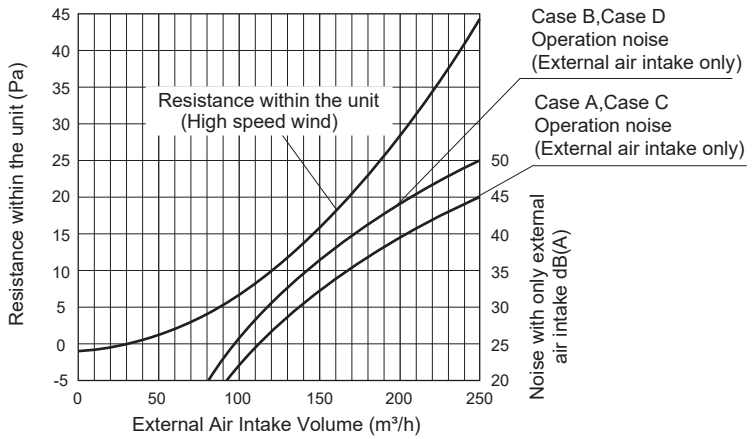
Front side air intake

The amount of external air intake that is possible to feed when it is fed directly into the unit

	Type	S-3650PF3E			S-6071PF3E		S-1014PF3E		
		(36)	(45)	(50)	(60)	(71)	(100)	(125)	(140)
Case A Case C	Recommended air intake volume (m³/h)	100	100	100	103	103	121	126	142
	Noise with only external air intake dB(A)	22	22	22	23	23	27	28	31
	Permissible air intake volume (m³/h)	100			146		240		
	Noise with only external air intake dB(A)	22			32		44		
Case B Case D	Recommended air intake volume (m³/h)	100	100	100	124	124	139	152	170
	Noise with only external air intake dB(A)	26	26	26	31	31	34	37	40
	Permissible air intake volume (m³/h)	100			146		240		
	Noise with only external air intake dB(A)	26			36		49		

* For S-3650PF3E (36), S-3650PF3E (45) and S-3650PF3E (50), see the Combination Table items 36, 45 and 50 on page 20 to 22.
* For S-6071PF3E (60) and S-6071PF3E (71), see the Combination Table items 60 and 71 on page 20 to 22.
* For S-1014PF3E (100), S-1014PF3E (125) and S-1014PF3E (140), see the Combination Table items 100, 125 and 140 on page 20 to 22.

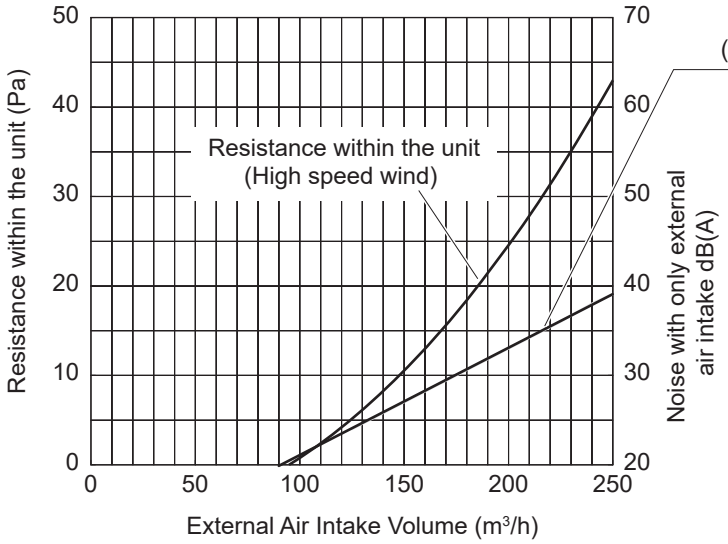
The recommended air intake volume is the air volume when the noise level of external air intake is equivalent to the noise of indoor unit (L wind).
The permissible air intake volume is the air volume when the external air intake does not adversely affect the suction temperature sensor.
Using values that exceed recommended air intake volume will result in noise when only external air is fed being louder than the noise emitted from the unit.
Please see the figure below for details.



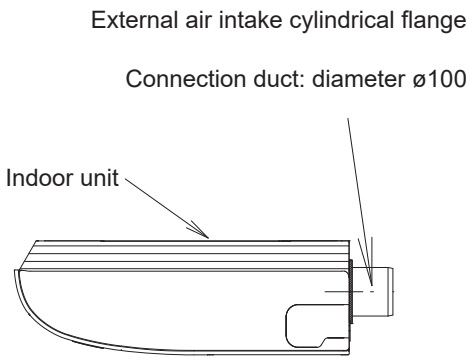
External Air Intake Volume & Resistance Within Unit/
Operation Noise Characteristics

1-9-2-3. Ceiling Type

■ **In a Case of External Air Intake to Unit Directly (Using external air intake cylindrical flange)**



External Air Intake Volume & Resistance Within Unit/ Operation Noise Characteristics



With the External Air Intake Flange Attached

1. Calculate the operation noise when external air is being fed by combining the noise when only external air is being fed as shown in the diagram for operation noise characteristics and the operation noise of the unit as stipulated in the catalogue.
2. The operation noise conforms to JIS standards and constitute measurements taken in an anechoic chamber 1m front and 1m below the indoor unit. Under normal circumstances, the diagram shown above is greater owing to the effects of surrounding noise and reverberation when the unit is actually installed.

The amount of external air intake that is possible to feed when it is fed directly into the unit

Type	S-3650PT3E	S-6071PT3E	S-1014PT3E
Permissible Air Intake Volume (m³/h)	160 (36)* 170 (45,50)*	200 (60)* 210 (71)*	240

*For S-3650PT3E (36), S-3650PT3E (45) and S-3650PT3E (50), see the Combination Table items 36, 45 and 50 on page 20 to 22.

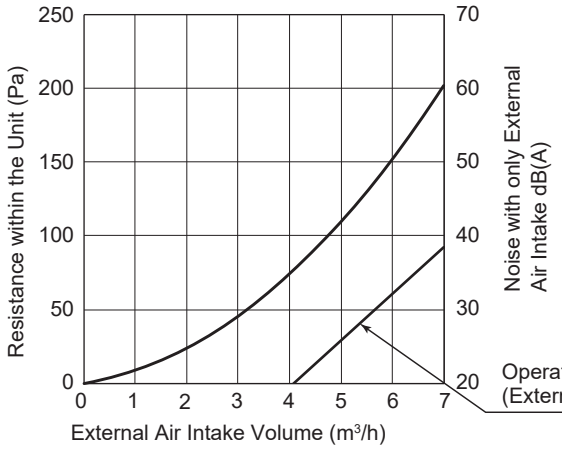
*For S-6071PT3E (60) and S-6071PT3E (71), see the Combination Table items 60 and 71 on page 20 to 22.

* The operation noise for models that use small units is lower, so use values that are within the range shown in the above table. Using values that exceed these will result in noise when only external air is fed being louder than the noise emitted from the unit.

1-9-2-4. 4-Way Cassette 60 × 60 Type

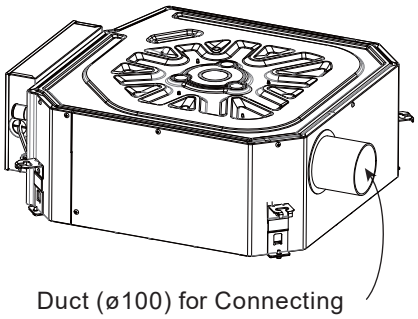
■ When an External Air Intake Flange (ø100) is in Use

External Air Intake Volume and Resistance and Operation Noise Characteristics within the Unit



With the External Air Intake Flange Attached

Type Y3



Duct (ø100) for Connecting the External Air Intake Flange

- Calculate the operation noise when external air is being fed by combining the noise when only external air is being fed as shown in the graph for operation noise characteristics and the operation noise of the unit as stipulated in the catalogue.
- The operation noise conforms to JIS standards and constitute measurements taken in an anechoic chamber 1.5 m directly beneath the indoor unit. Under normal circumstances, the values shown here are greater owing to the effects of surrounding noise and reverberation when the unit is actually installed.

The amount of external air that is possible to feed when it is fed directly into the unit (ø100)

Type	S-25PY3E	S-36PY3E	S-50PY3E	S-60PY3E
Permissible Air Intake Volume (m³/h)	5.0	5.0	5.5	6.5

NOTE

The operation noise for models that use small units is lower, so use values that are within the range shown in the above table. Using values that exceed these will result in noise when only external air is fed being louder than the noise emitted from the unit.

1-10. Electrical Wiring

1-10-1. Indoor Unit

1-10-1-1. 4-Way Cassette Type S-3650PU3E, S-6071PU3E, S-1014PU3E

■ General Precautions on Wiring

(1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.

⚠ WARNING

(2) This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown. The ELCB must be incorporated in the fixed wiring in accordance with the wiring regulations. The ELCB must be an approved circuit capacity, having a contact separation in all poles.
The ELCB or RCD suitable for use with inverters, resistant to high frequency noise, is most suitable.
The ELCB's or RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.

(3) To prevent possible hazards from insulation failure, the unit must be grounded.

(4) Each wiring connection must be done in accordance with the wiring system diagram.
Wrong wiring may cause the unit to misoperate or become damaged.

(5) Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.

(6) Unauthorized changes in the internal wiring can be very dangerous. The manufacturer will accept no responsibility for any damage or misoperation that occurs as a result of such unauthorized changes.

(7) Regulations on wire diameters differ from locality to locality. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
You must ensure that installation complies with all relevant rules and regulations.

(8) To prevent malfunction of the air conditioner caused by electrical noise, care must be taken when wiring as follows:
- The remote control wiring and the inter-unit control wiring should be wired apart from the inter-unit power wiring.
- Use shielded wires for inter-unit control wiring between units and ground the shield on both sides.

⚠ CAUTION

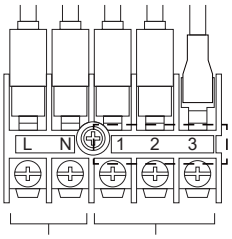
Check local electrical codes and regulations before wiring. Also, check any specified instruction or limitations.

■ Recommended Wire Length and Wire Diameter for Power Supply System

Check the type of the outdoor unit terminal board as illustrated below and make connection.

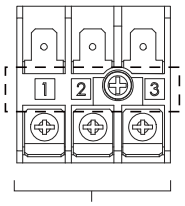
- **If 1, 2 and 3 are shown on the terminal board, it is for 3-line connection.**

Single-phase / U-36~50PZ3E5
U-60~71PZ3E5A
U-36~60PZH3E5



Power supply cable　Connection cable between outdoor and indoor unit

Single-phase / U-100~140PZ3E5
U-71~140PZH3E5
3-phase / U-100~140PZ3E8
U-71~140PZH3E8



Connection cable between outdoor and indoor unit

Power supply cable

Type	(B) Power supply cable Min. 2.5 mm² *1	Time delay fuse or circuit capacity
U3	Max. 130 m *2	15 A

Connection cable between outdoor and indoor unit

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36~50PZ3E5, U-60~71PZ3E5A Min. 1.5 mm² *1	(G) Outdoor unit U-100 ~ 140PZ3E5, U-100 ~ 140PZ3E8 Min. 2.5 mm² *1
U3	Max. 40 m *2	Max. 50 m *2

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36~60PZH3E5 Min. 1.5 mm² *1	(G) Outdoor unit U-71 ~ 140PZH3E5, U-71 ~ 140PZH3E8 Min. 2.5 mm² *1
U3	Max. 40 m *2	Max. 85 m *2

Control wiring

(C) Inter-unit (between Integrated control system and indoor units) control wiring	(D) Remote control wiring	(E) Remote control wiring for group control
Min. 0.75 mm² Use shielded wiring *3	Min. 0.75 mm²	Min. 0.75 mm²
Max. 1,000 m	(D) + (E) : Max. 500 m　(E) : Max. 200 m The above descriptions can be used for the model CZ-RTC4, CZ-RTC5B and CZ-RTC6 Series. For other remote controllers, refer to the manual of each unit.	

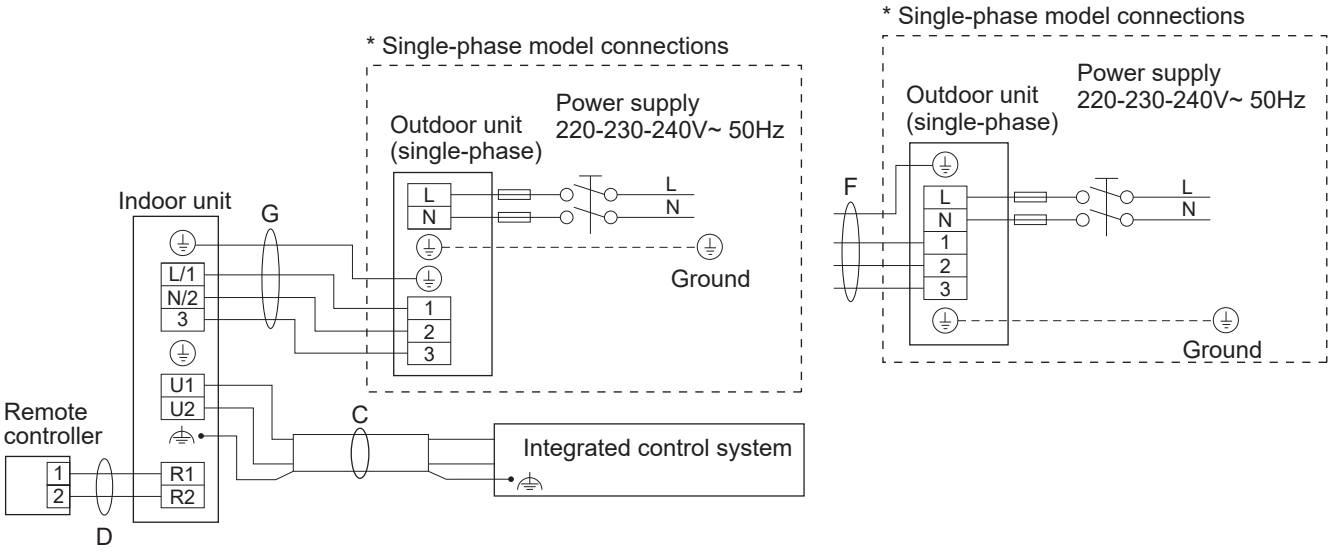
NOTE

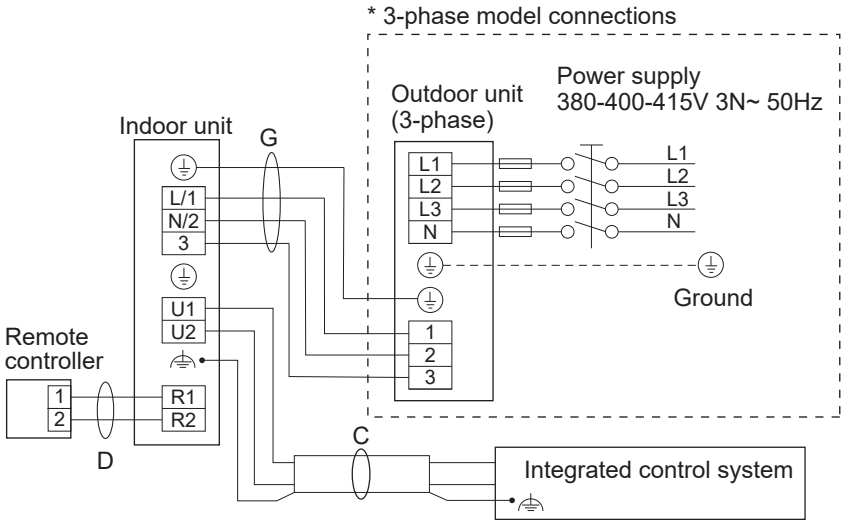
*1 Maximum applicable wire for terminal board of indoor unit : 4 mm²
*2 This maximum length shows a 2% voltage drop.
*3 With ring-type wire terminal.

■ Wiring System Diagrams

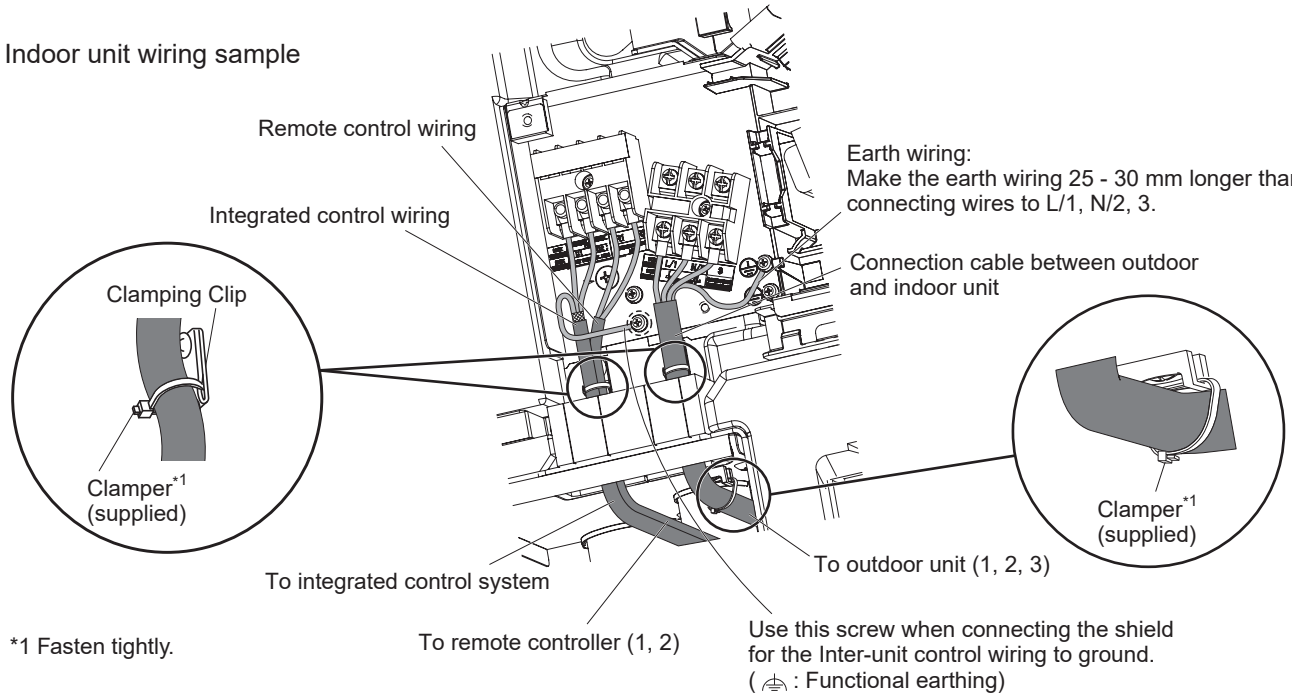
● 3-LINE CONNECTION

Example : Single connection



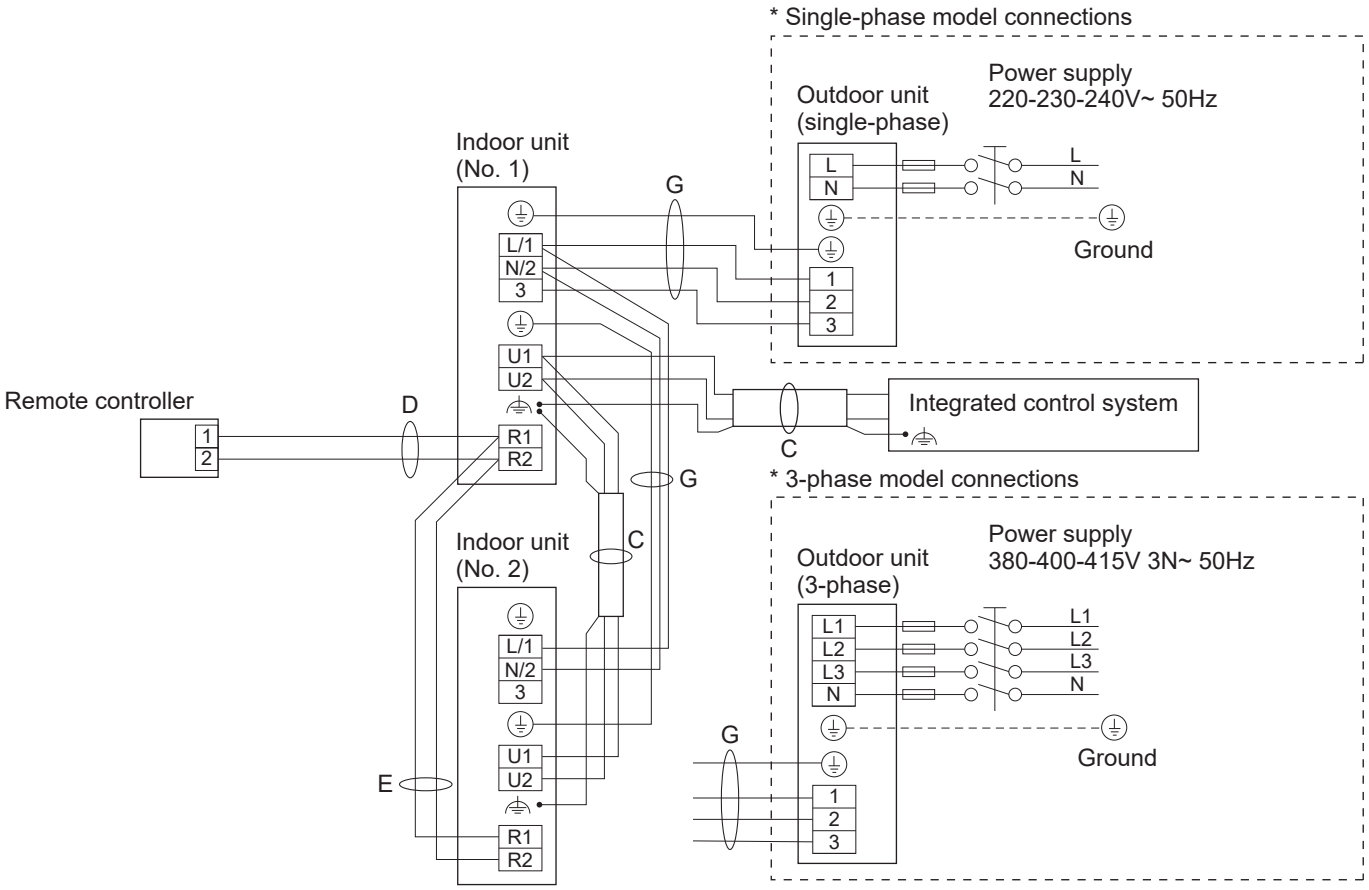


Indoor unit wiring sample

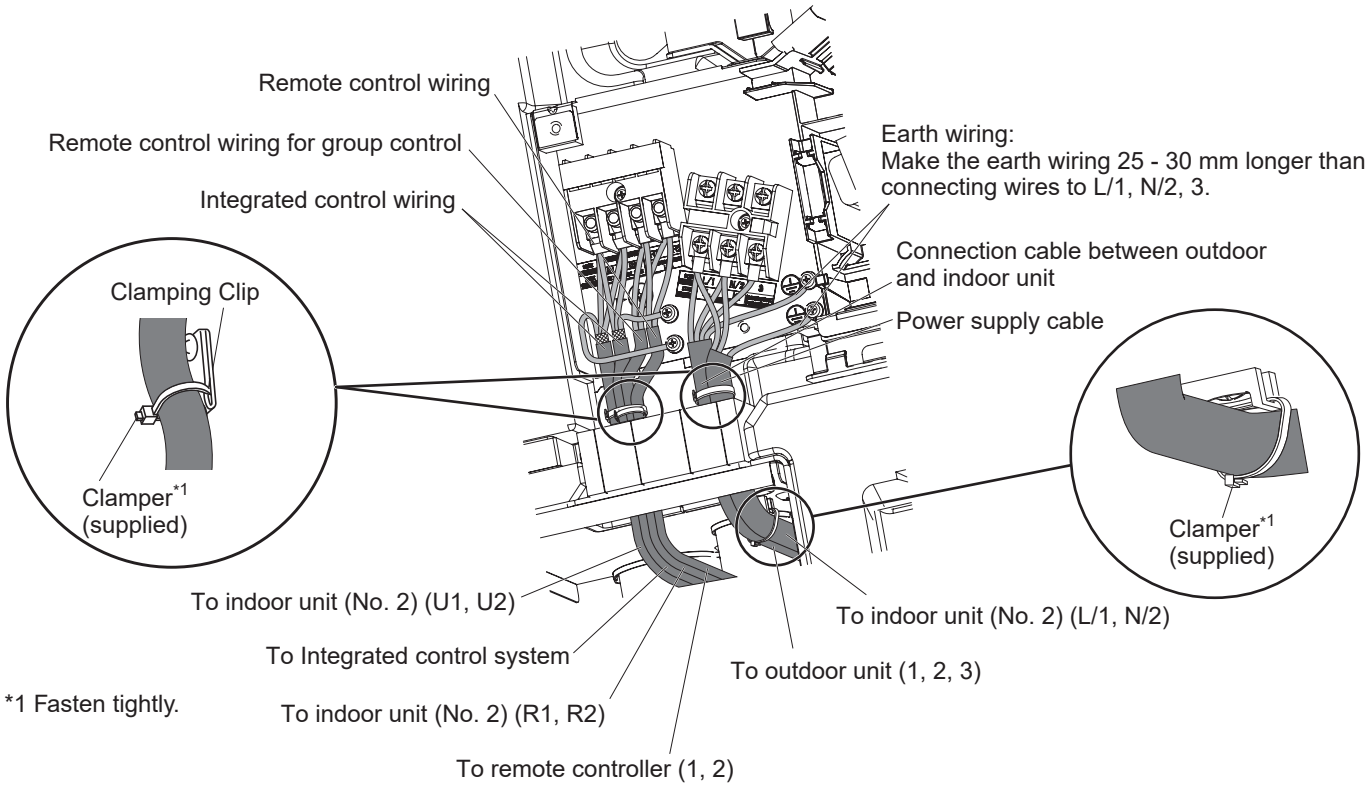


*1 Fasten tightly.

Example : Twin connection

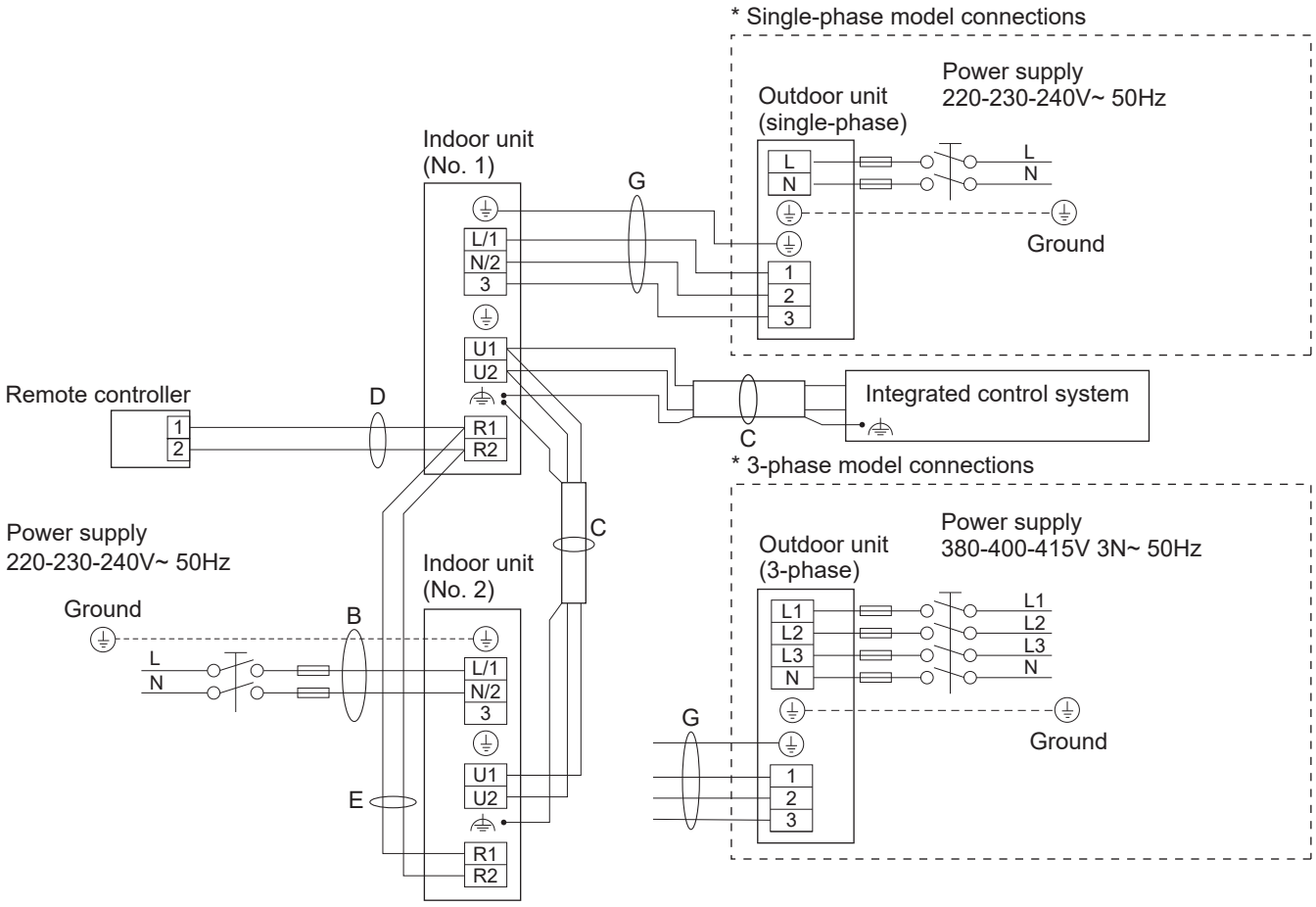


Indoor unit (No. 1) wiring sample

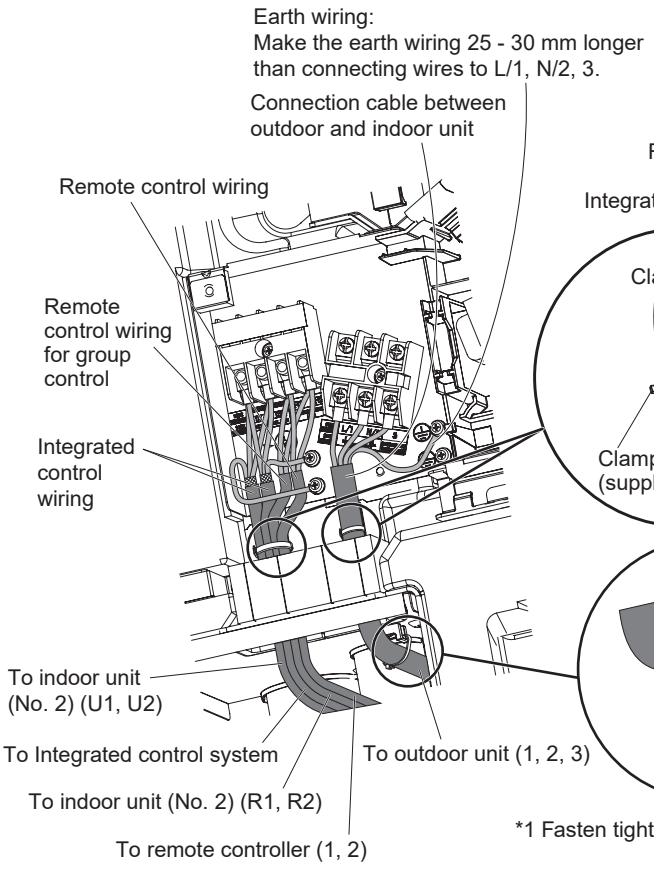


*1 Fasten tightly.

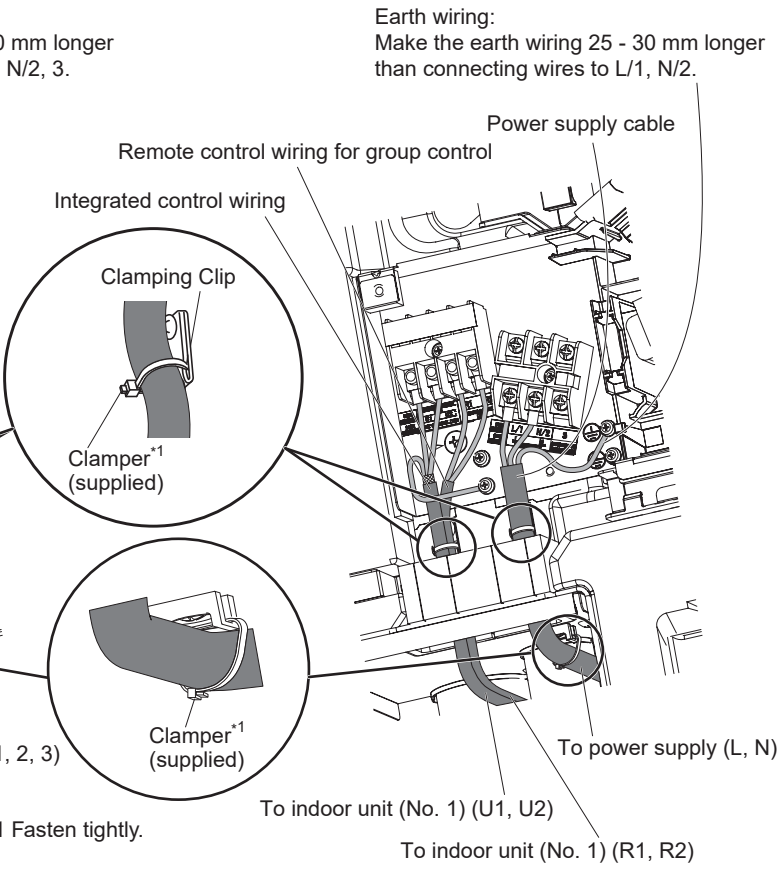
Example : Twin connection



Indoor unit (No. 1) wiring sample



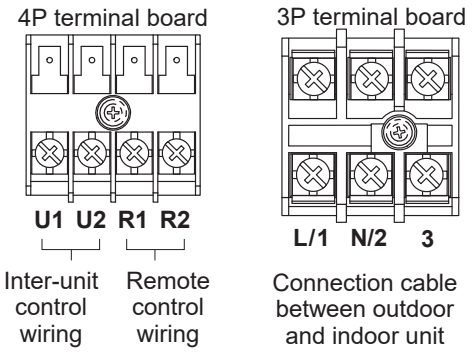
Indoor unit (No. 2) wiring sample



*1 Fasten tightly.

NOTE

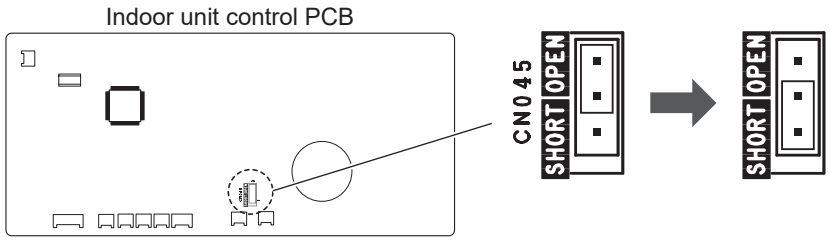
(1) See "■Recommended Wire Length and Wire Diameter for Power Supply System" on page 1-10-1-1-2 for the explanation of "B", "C", "D", "E", "F" and "G" under "■Wiring System Diagrams" on page 1-10-1-1-3 to 1-10-1-1-5.
(2) The basic connection diagram of the indoor unit shows the terminal boards, so the terminal boards in your equipment may differ from the diagram.
(3) Refrigerant Circuit address should be set before turning the power on.
(4) Regarding Refrigerant Circuit address setting, refer to the installation instructions supplied with the remote controller (Optional).
Auto address setting can be executed by remote controller automatically.



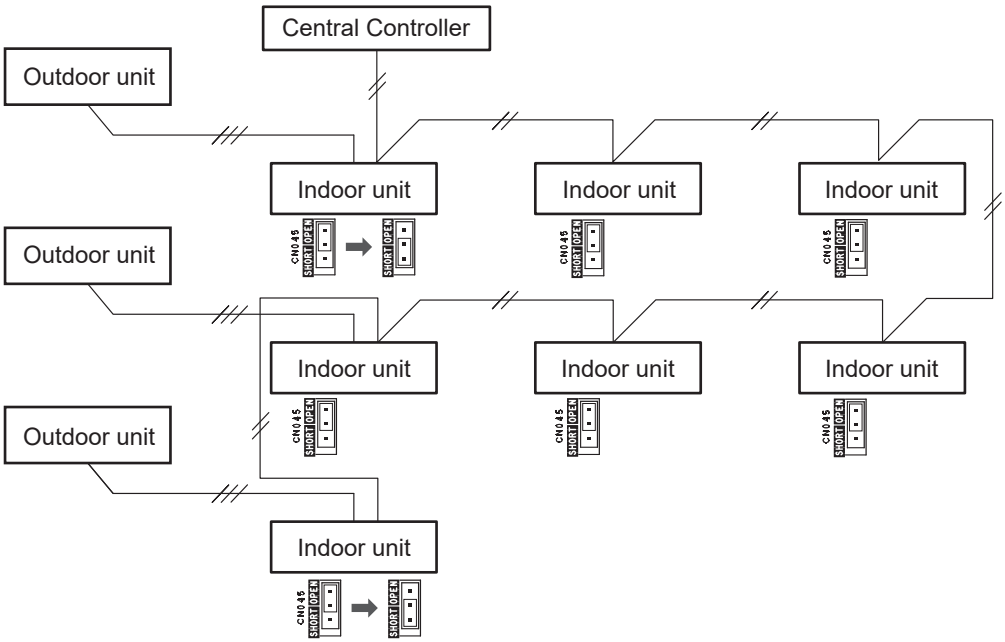
⚠ CAUTION

(1) When connecting to the integrated control system, the setting of the terminating resistance is required. Even more connection with the integrated control system is required, all indoor units in the link of 3-line connection should be connected with 2-line link wiring.

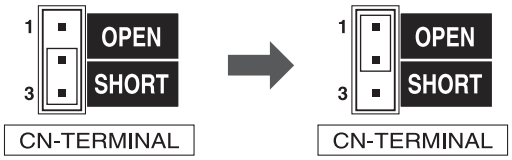
- **How to set the terminating resistance of the indoor unit**
  The setting of the terminating resistance should be made by CN045 on the indoor unit control PCB.
  The setting of indoor unit terminating resistance at shipment is OPEN side. If the shorting socket is moved as shown below, the terminating resistance is SHORT side (operative).
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.



- **In case that the inter-unit control wiring in the link are all 3-line connection:**

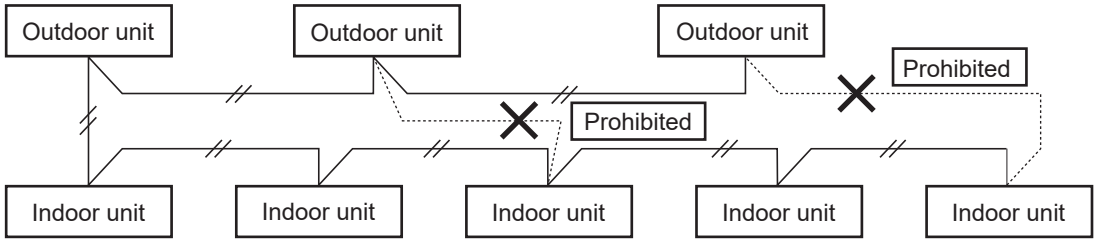


- **In case that the inter-unit control wiring in the link are mixed with 3-line and 2-line connections:**
  Set the terminating resistance with the TERMINAL pin (CN-TERMINAL) on the *outdoor unit control PCB.
  The setting of the outdoor unit terminating resistance at shipment is SHORT side (operative). Leave one unit in short circuit among outdoor units in the link.
  Change to OPEN for other units. It is not necessary to install all units' terminating resistance to OPEN side.
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.

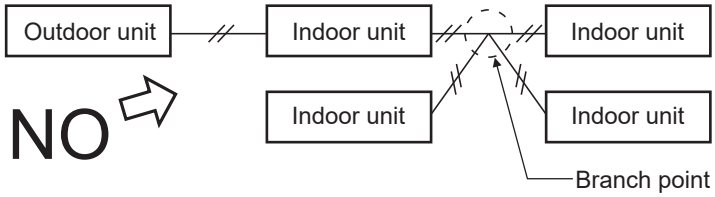


*** Outdoor unit is connected by 2-line connection.**

(2) Do not install the inter-unit control wiring in a way that forms a loop.



(3) Do not install inter-unit control wiring such as star branch wiring.
Star branch wiring causes mis-address setting.

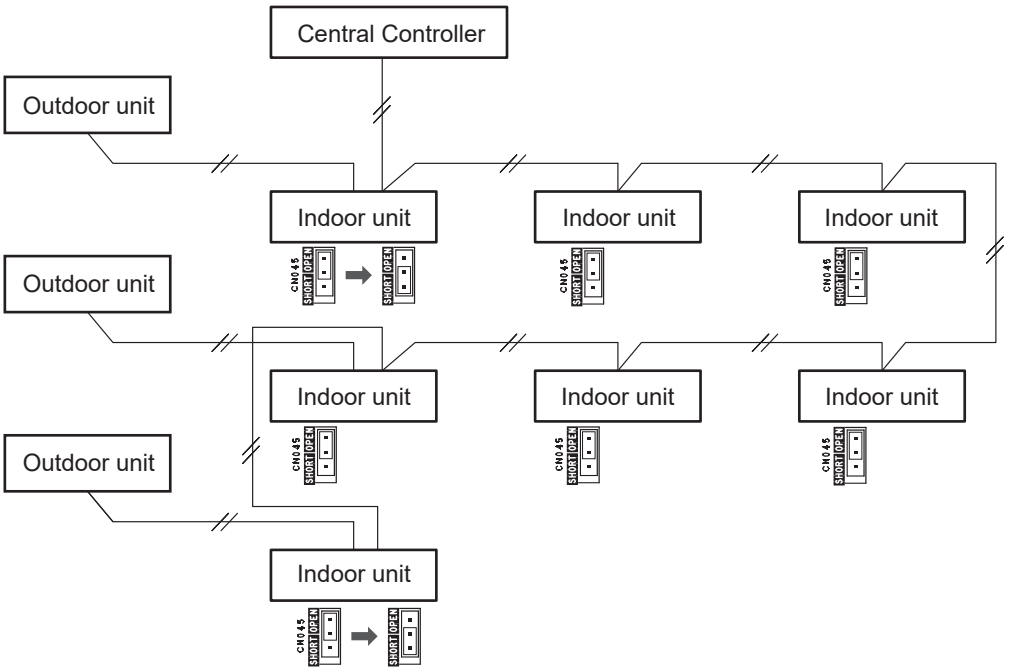


(4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer.

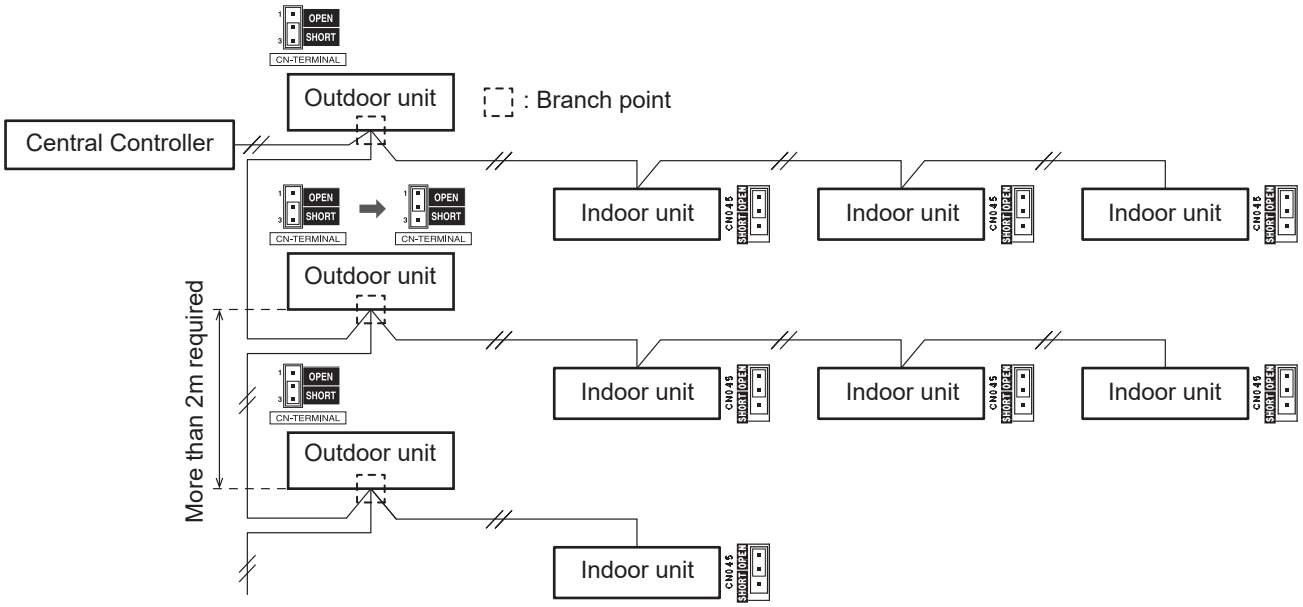
The setting of the terminating resistance changes according to the number of refrigerant systems connected to the integrated control wiring in the link.

- For one refrigerant system in the link wiring, it is necessary to set one terminating resistance to the valid (SHORT side). For over 2 refrigerant systems, it is necessary to set 2 terminating resistance to the valid (SHORT side).
- The valid or invalid setting of the terminating resistance is basically carried out with the outdoor unit. However, 3-line connection outdoor unit cannot make a setting of terminating resistance. In this case, the shortage of the valid setting for the terminating resistance should be carried out with the indoor unit. The setting of the terminating resistance of the 2-line outdoor unit at shipment is the valid (SHORT side) and outdoor unit is the invalid (OPEN side).

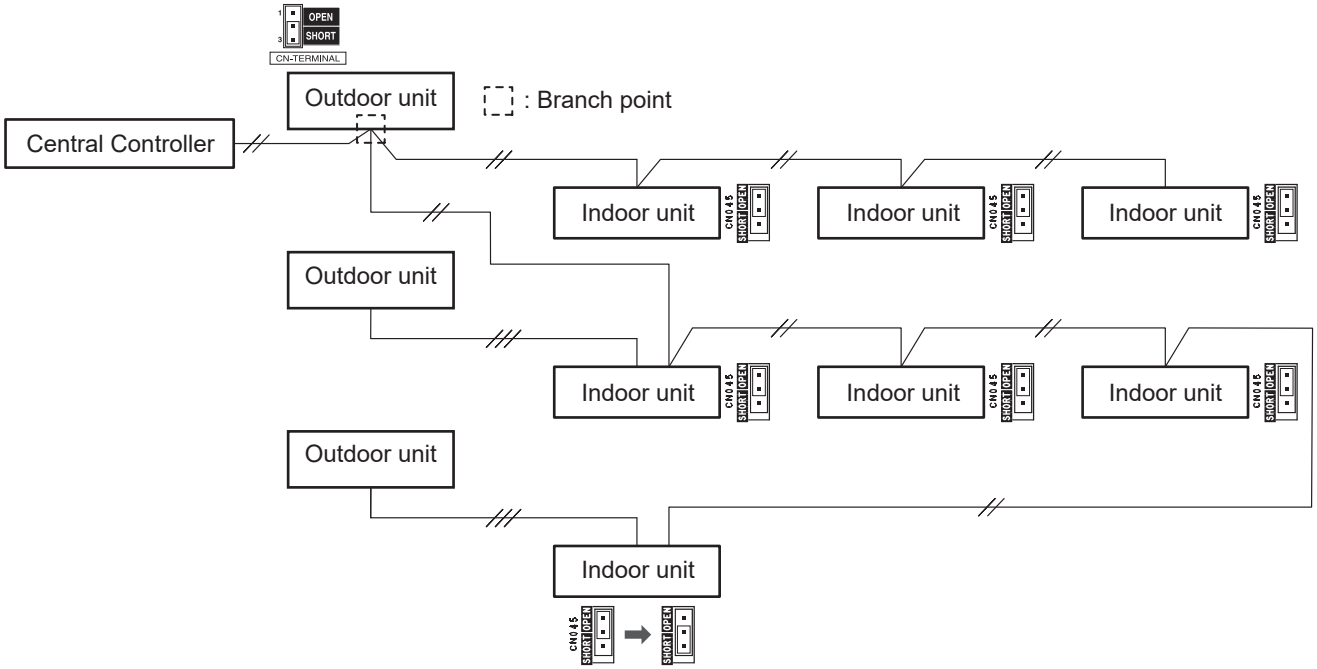
● In case that the inter-unit control wiring in the link are all 3-line connection:

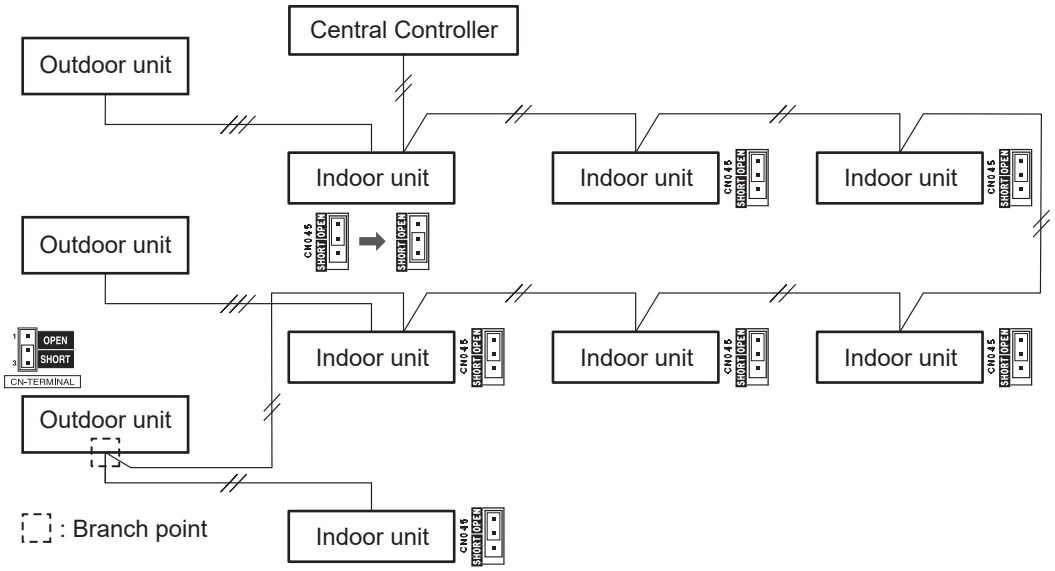


- In case that the inter-unit control wiring in the link are all 2-line connection only, or mixed with 2-line and 3-line connections:
  1) All refrigerant systems are 2-line connection:

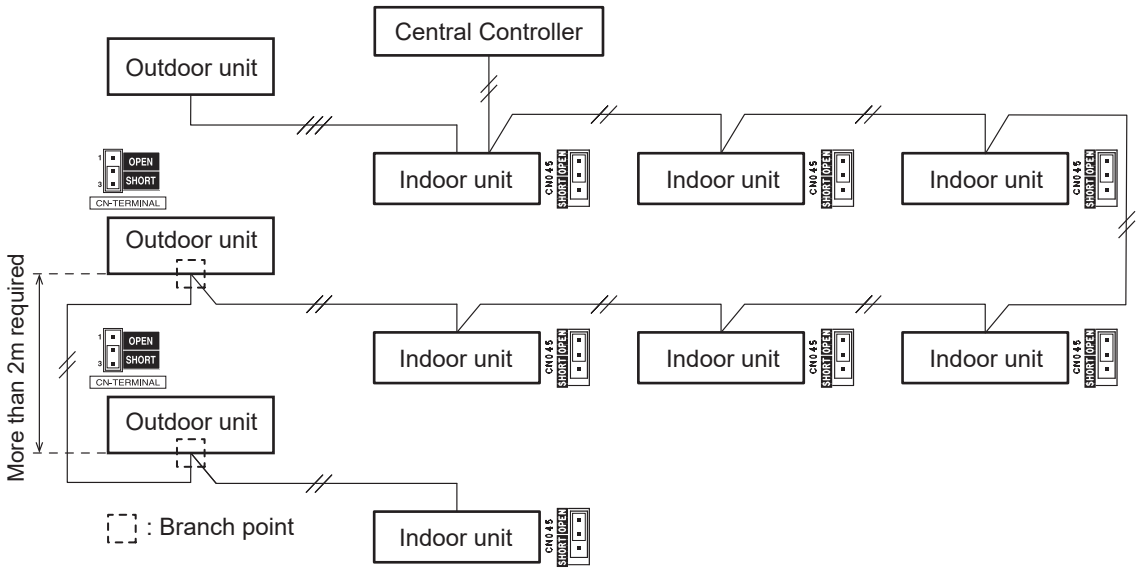


  2) Only one refrigerant system is 2-line connection and other refrigerant systems are 3-line connection:

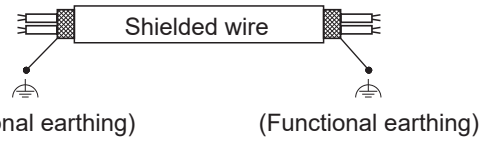




3) Only one refrigerant system is 3-line connection and other refrigerant systems are 2-line connection:



(5) Use shielded wires for inter-unit control wiring (C) and ground the shield on both sides, otherwise misoperation from noise may occur.
Connect wiring as shown in Section "■ Wiring System Diagrams" on page 1-10-1-1-3 to 1-10-1-1-5.



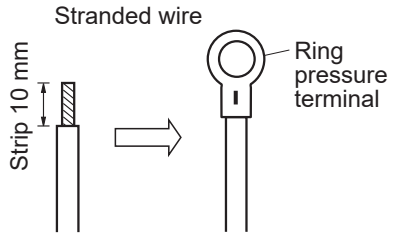
(6) • In the case of 3-line connection, connection cable between outdoor and indoor unit shall be approved polychloroprene sheathed flexible cord. Type designation 60245 IEC57 (H05RN-F, GP85PCP etc.) or heavier cord.
• Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conform to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (60245 IEC57, 60245 IEC66)

⚠ WARNING

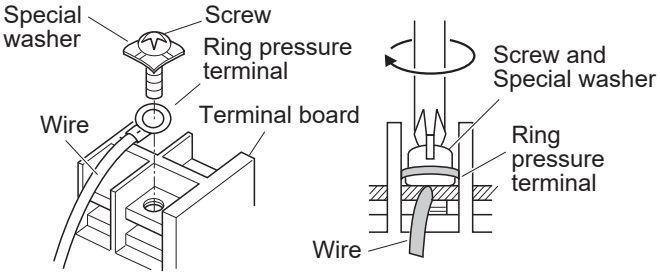
Loose wiring may cause the terminal to overheat or result in unit malfunction.
A fire hazard may also occur. Therefore, ensure that all wiring is tightly connected.
When connecting each power wire to the terminal, follow the instructions on "●How to connect wiring to the terminal" and fasten the wire securely with the terminal screw.

● How to connect wiring to the terminal
For stranded wiring

(1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends.

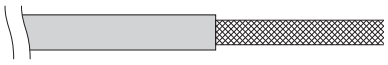


(2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal board.
(3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
(4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver.

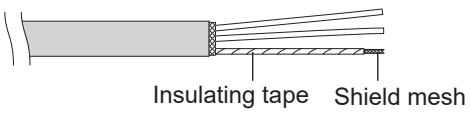


Examples of shield wires

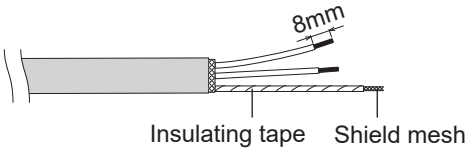
(1) Remove cable coat not to scratch braided shield.



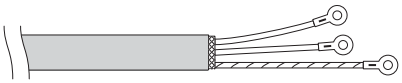
(2) Unbraid the braided shield carefully and twist the unbraided shield wires tightly together. Insulate the shiel wires by covering them with an insulation tube or wrapping insulating tape around them.



(3) Remove coat of signal wire.



(4) Attach ring pressure terminals to the signal wires and theshield wires insulated in Step (2).



1-10-1-2. Middle Static Pressure Duct Type S-3650PF3E, S-6071PF3E, S-1014PF3E

■ General Precautions on Wiring

(1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.

⚠ WARNING

(2) This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown. The ELCB must be incorporated in the fixed wiring in accordance with the wiring regulations. The ELCB must be an approved circuit capacity, having a contact separation in all poles.
The ELCB or RCD suitable for use with inverters, resistant to high frequency noise, is most suitable.
The ELCB's or RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.

(3) To prevent possible hazards from insulation failure, the unit must be grounded.

(4) Each wiring connection must be done in accordance with the wiring system diagram.
Wrong wiring may cause the unit to misoperate or become damaged.

(5) Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.

(6) Unauthorized changes in the internal wiring can be very dangerous. The manufacturer will accept no responsibility for any damage or misoperation that occurs as a result of such unauthorized changes.

(7) Regulations on wire diameters differ from locality to locality. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
You must ensure that installation complies with all relevant rules and regulations.

(8) To prevent malfunction of the air conditioner caused by electrical noise, care must be taken when wiring as follows:
- The remote control wiring and the inter-unit control wiring should be wired apart from the inter-unit power wiring.
- Use shielded wires for inter-unit control wiring between units and ground the shield on both sides.

⚠ CAUTION

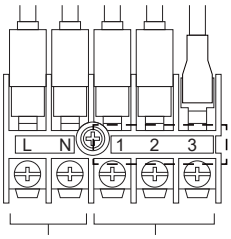
Check local electrical codes and regulations before wiring. Also, check any specified instruction or limitations.

■ Recommended Wire Length and Wire Diameter for Power Supply System

Check the type of the outdoor unit terminal board as illustrated below and make connection.

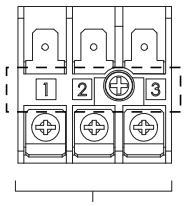
- **If 1, 2 and 3 are shown on the terminal board, it is for 3-line connection.**

Single-phase / U-36~50PZ3E5
U-60~71PZ3E5A
U-36~60PZH3E5



Power supply cable　Connection cable between outdoor and indoor unit

Single-phase / U-100~140PZ3E5
U-71~140PZH3E5
3-phase / U-100~140PZ3E8
U-71~140PZH3E8



Connection cable between outdoor and indoor unit

Power supply cable

Type	(B) Power supply cable Min. 2.5 mm² *1	Time delay fuse or circuit capacity
F3	Max. 90 m *2	15 A

Connection cable between outdoor and indoor unit

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36~50PZ3E5, U-60~71PZ3E5A U-36~60PZH3E5 Min. 1.5 mm² *1	(G) Outdoor unit U-100 ~ 140PZ3E5, U-100 ~ 140PZ3E8 Min. 2.5 mm² *1
F3	Max. 40 m *2	Max. 50 m *2

Type	Connection cable between outdoor and indoor unit (G) Outdoor unit U-71 ~ 140PZH3E5, U-71 ~ 140PZH3E8							
	Min. wire size (mm²)	Single type		Twin type		Triple type		Double twin type	
		Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)
F3	2.5	2.5	85	2.5	59	2.5	59	2.5	44
				4.0	85	4.0	85	4.0	70 *3

Control wiring

(C) Inter-unit (between Integrated control system and indoor units) control wiring	(D) Remote control wiring	(E) Remote control wiring for group control
Min. 0.75 mm² Use shielded wiring *4	Min. 0.75 mm²	Min. 0.75 mm²
Max. 1,000 m	(D) + (E) : Max. 500 m　(E) : Max. 200 m The above descriptions can be used for the model CZ-RTC4, CZ-RTC5B and CZ-RTC6 Series. For other remote controllers, refer to the manual of each unit.	

NOTE

*1 Maximum applicable wire for terminal board of indoor unit : 4 mm

*2 This maximum length shows a 2% voltage drop.

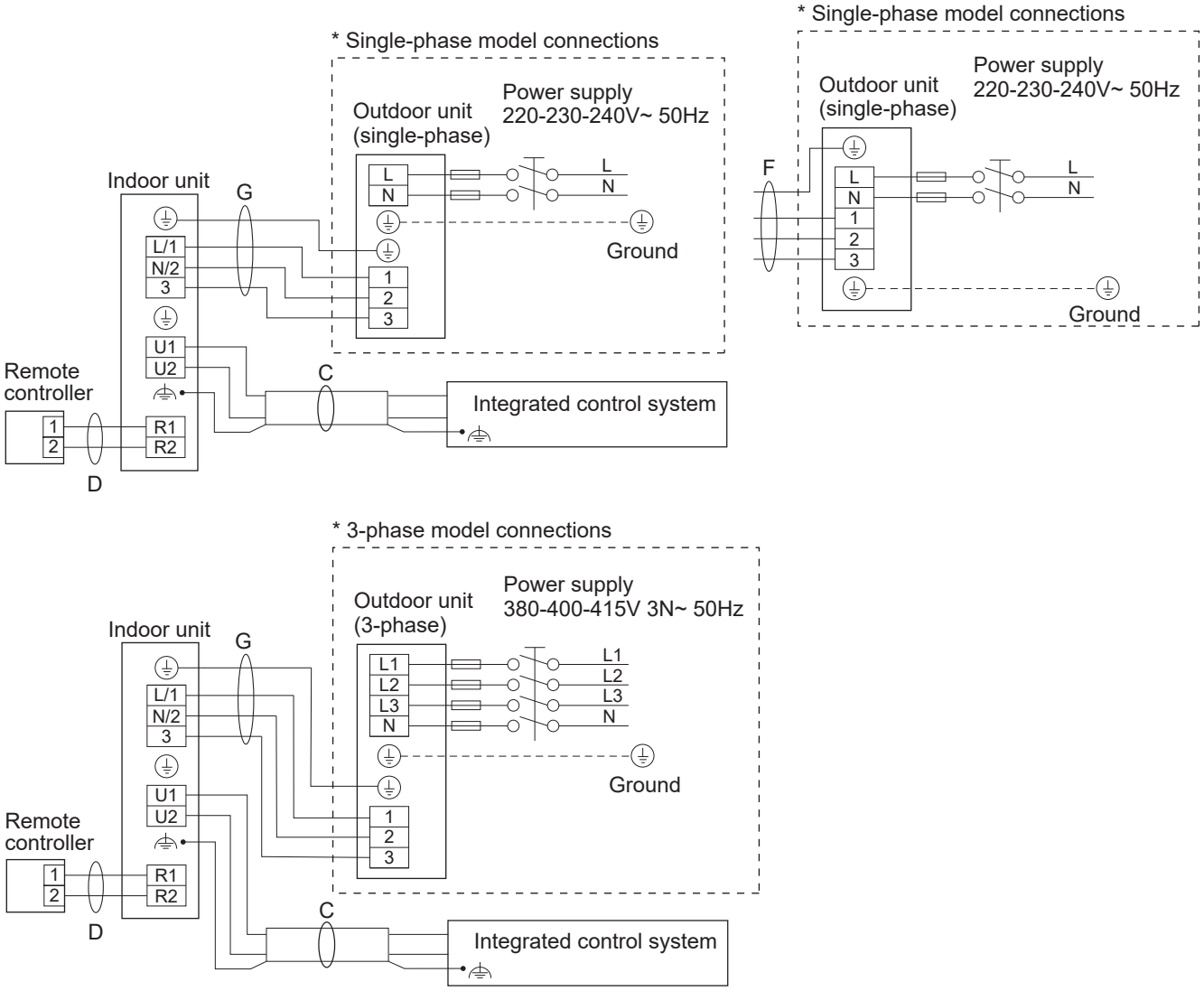
*3 If it exceeds 70m, up to 3 units will be 4mm² (85m) and the remaining one will be a separate power source of 2.5mm² (90m).

*4 With ring-type wire terminal.

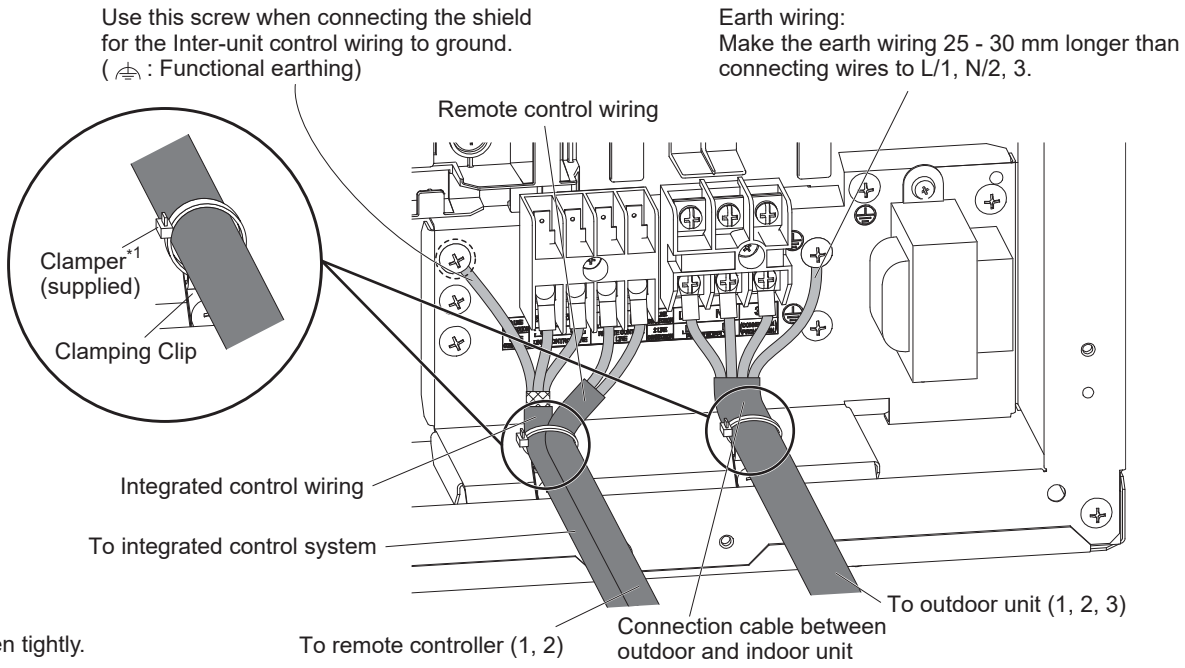
■ Wiring System Diagrams

● 3-LINE CONNECTION

Example : Single connection

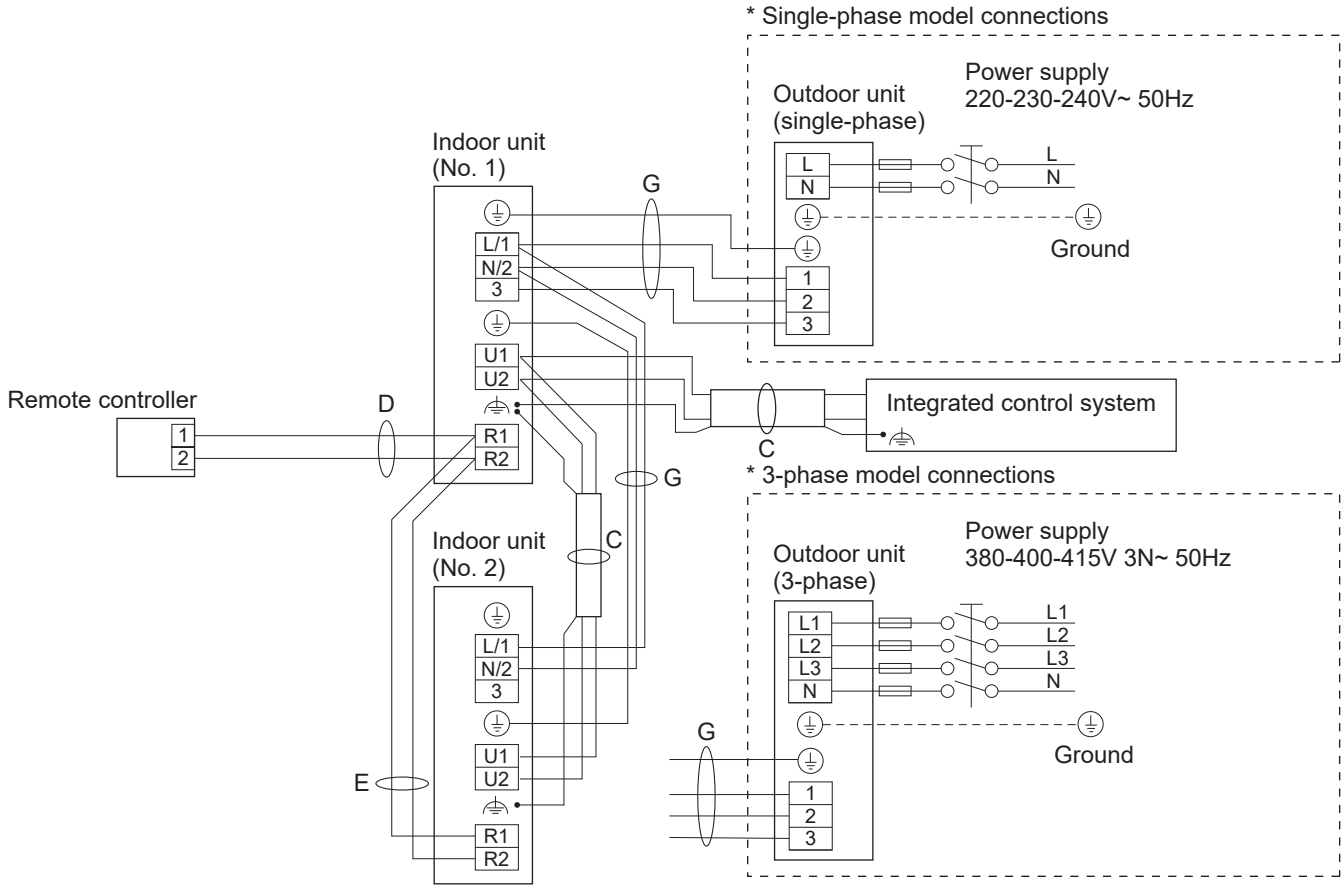


Indoor unit wiring sample

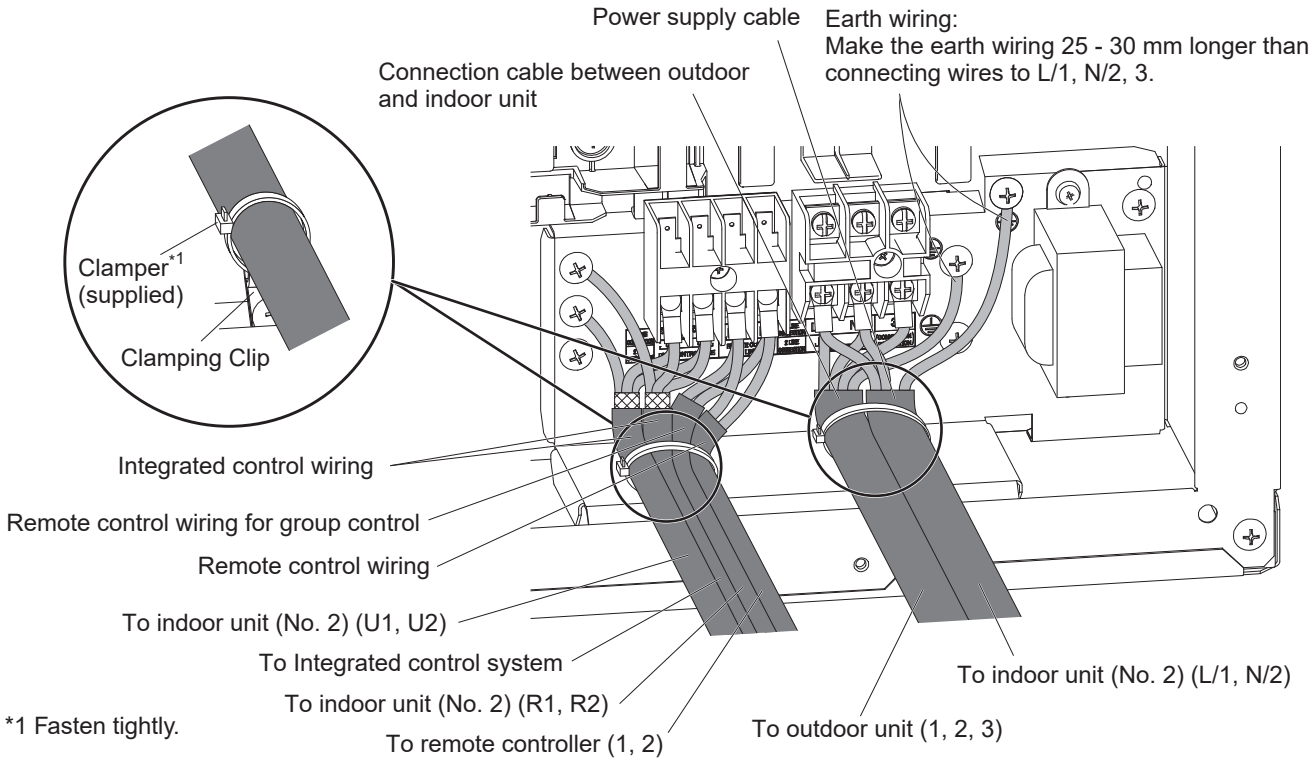


*1 Fasten tightly.

Example : Twin connection

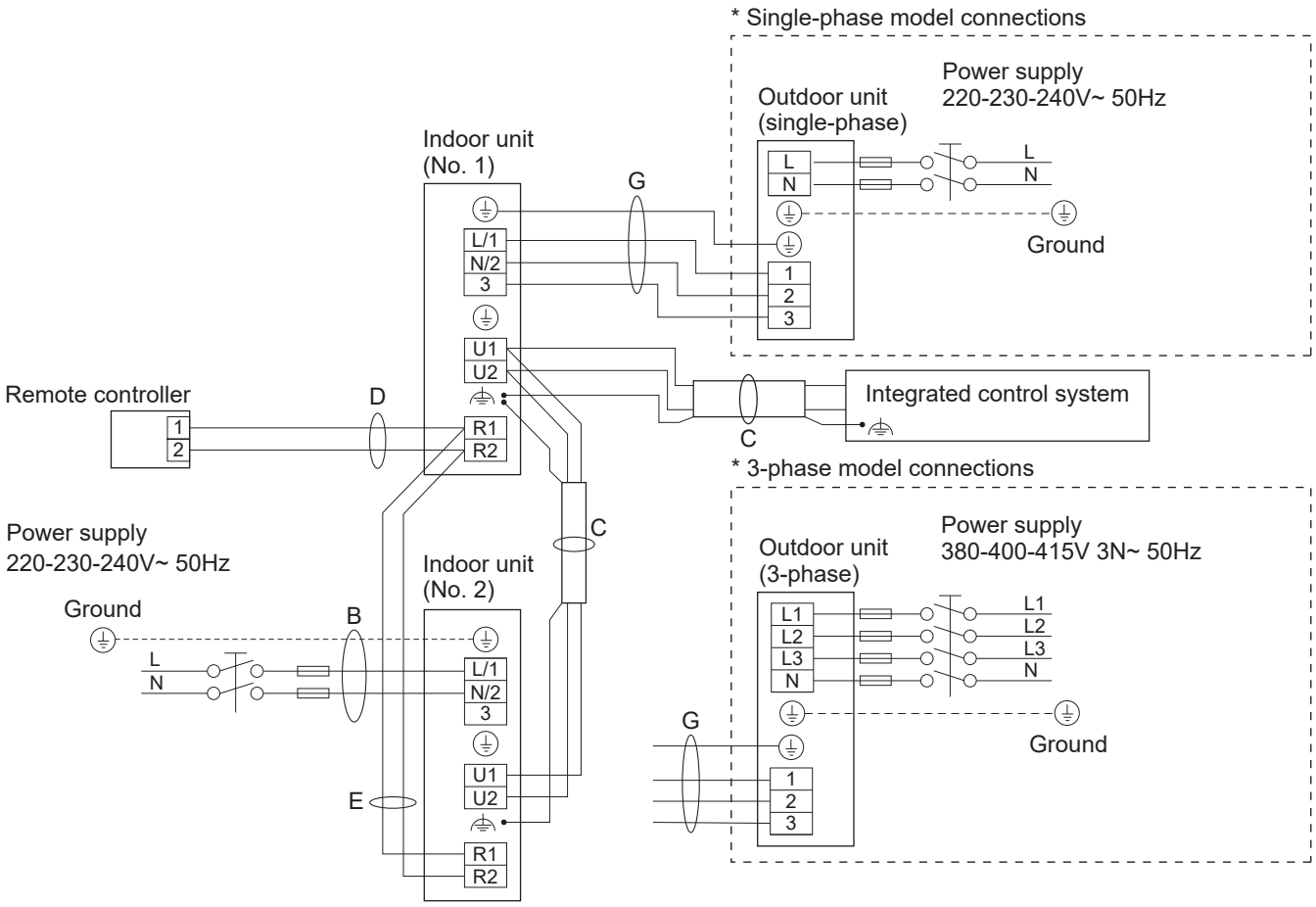


Indoor unit (No. 1) wiring sample

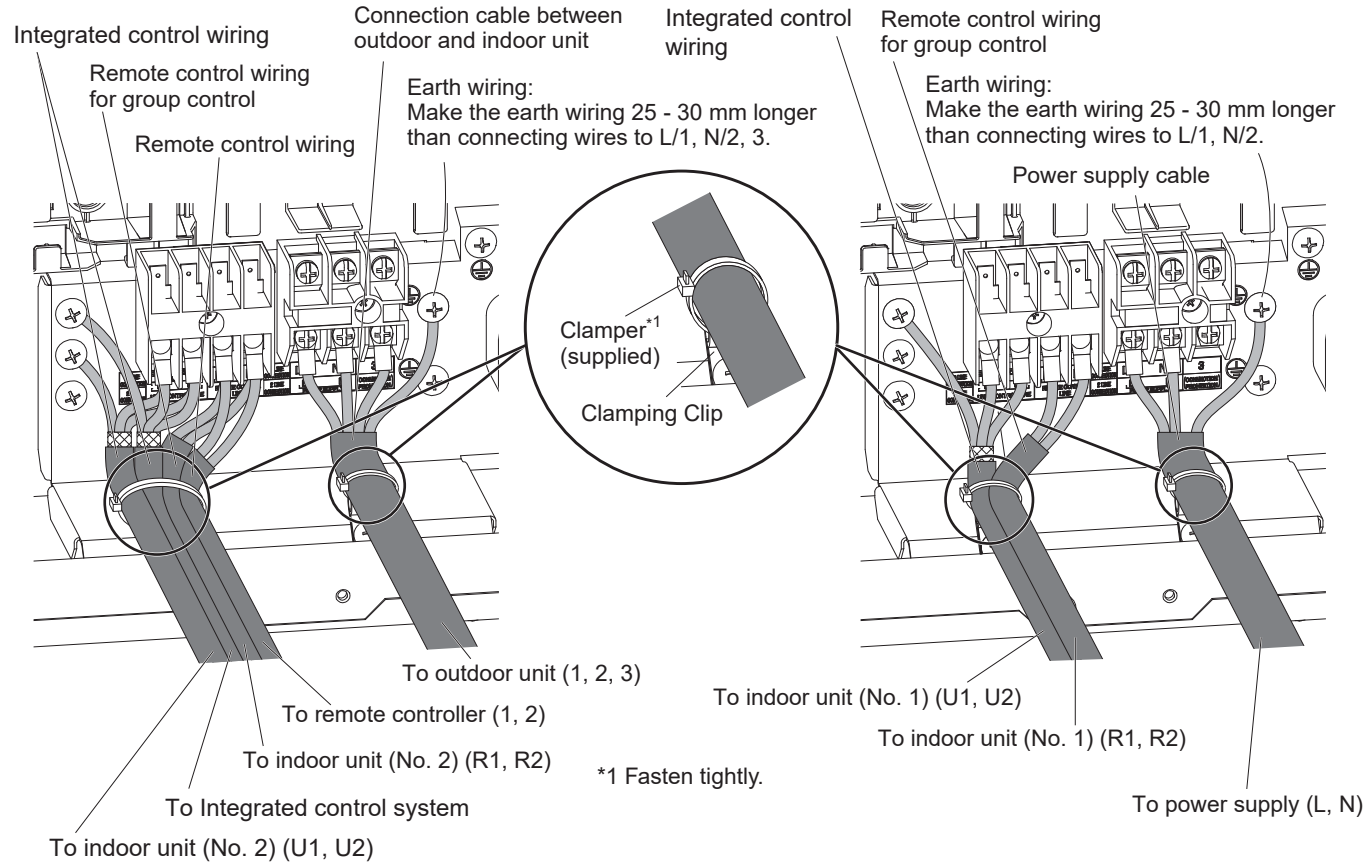


*1 Fasten tightly.

Example : Twin connection

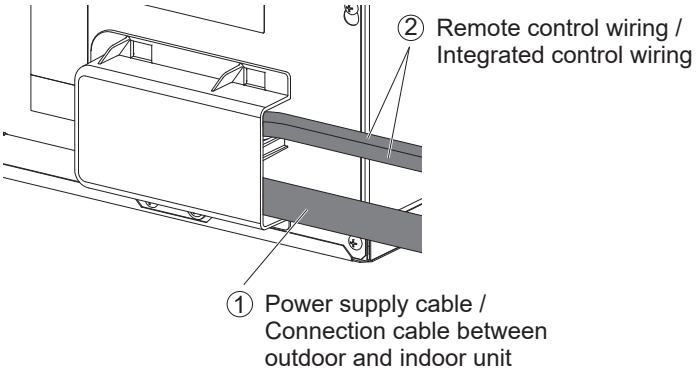


Indoor unit (No. 1) wiring sample



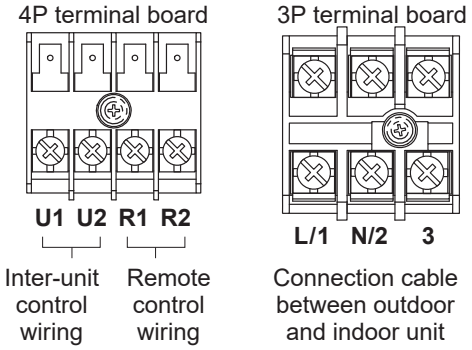
Indoor unit (No. 2) wiring sample

After all of the wires are connected, close the lid of the electrical component box.
Make the distance between two cables (1 and 2) as shown in the figure to the right.



NOTE

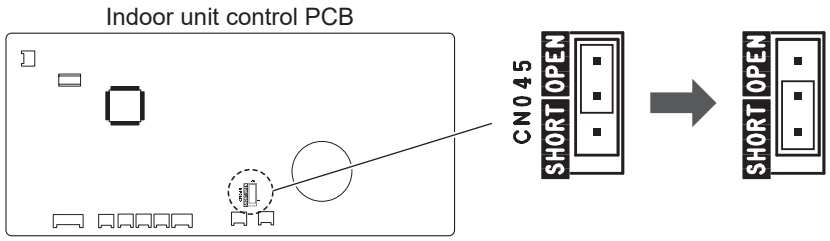
(1) See "■Recommended Wire Length and Wire Diameter for Power Supply System" on page 1-10-1-2-2 for the explanation of "B", "C", "D", "E", "F" and "G" under "■Wiring System Diagrams" on page 1-10-1-2-3 to 1-10-1-2-5.
(2) The basic connection diagram of the indoor unit shows the terminal boards, so the terminal boards in your equipment may differ from the diagram.
(3) Refrigerant Circuit address should be set before turning the power on.
(4) Regarding Refrigerant Circuit address setting, refer to the installation instructions supplied with the remote controller (Optional).
Auto address setting can be executed by remote controller automatically.



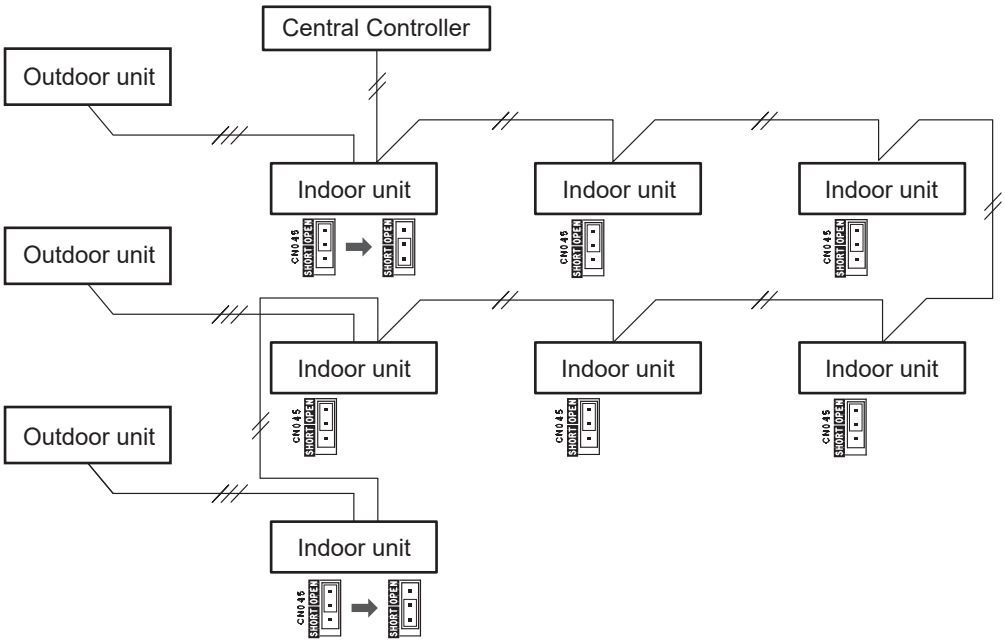
⚠ CAUTION

(1) When connecting to the integrated control system, the setting of the terminating resistance is required. Even more connection with the integrated control system is required, all indoor units in the link of 3-line connection should be connected with 2-line link wiring.

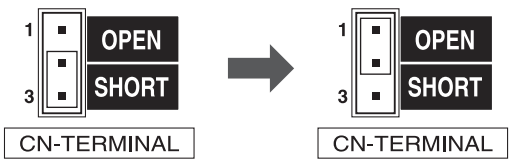
- **How to set the terminating resistance of the indoor unit**
  The setting of the terminating resistance should be made by CN045 on the indoor unit control PCB.
  The setting of indoor unit terminating resistance at shipment is OPEN side. If the shorting socket is moved as shown below, the terminating resistance is SHORT side (operative).
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.



- **In case that the inter-unit control wiring in the link are all 3-line connection:**

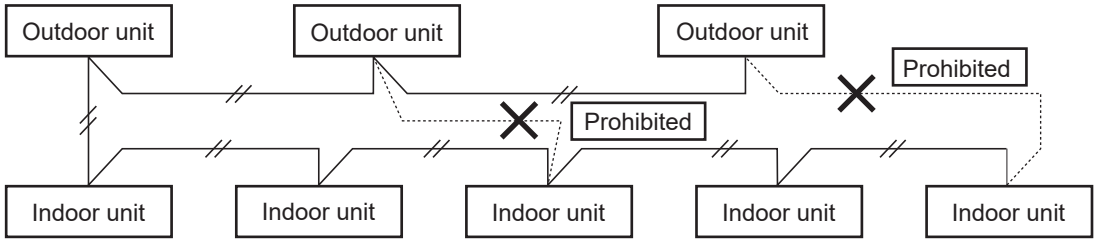


- **In case that the inter-unit control wiring in the link are mixed with 3-line and 2-line connections:**
  Set the terminating resistance with the TERMINAL pin (CN-TERMINAL) on the *outdoor unit control PCB.
  The setting of the outdoor unit terminating resistance at shipment is SHORT side (operative). Leave one unit in short circuit among outdoor units in the link.
  Change to OPEN for other units. It is not necessary to install all units' terminating resistance to OPEN side.
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.

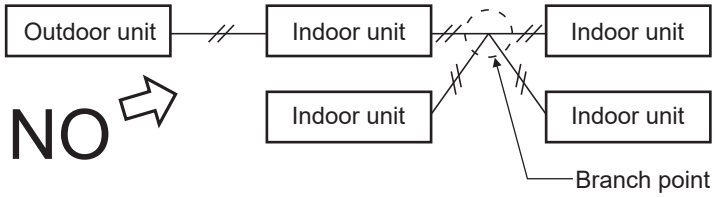


*** Outdoor unit is connected by 2-line connection.**

(2) Do not install the inter-unit control wiring in a way that forms a loop.



(3) Do not install inter-unit control wiring such as star branch wiring.
Star branch wiring causes mis-address setting.

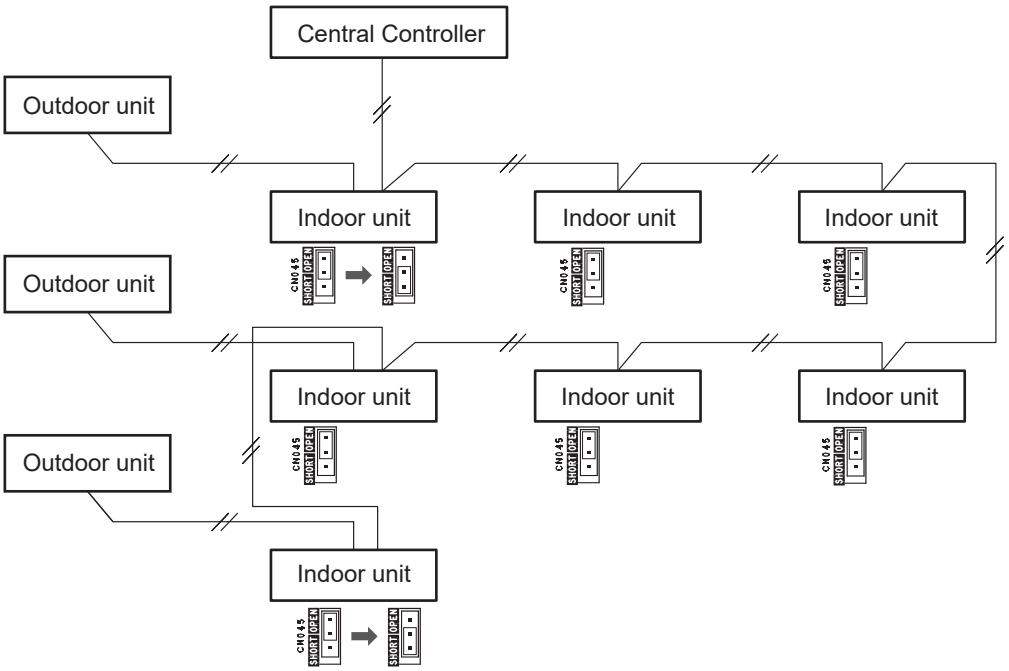


(4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer.

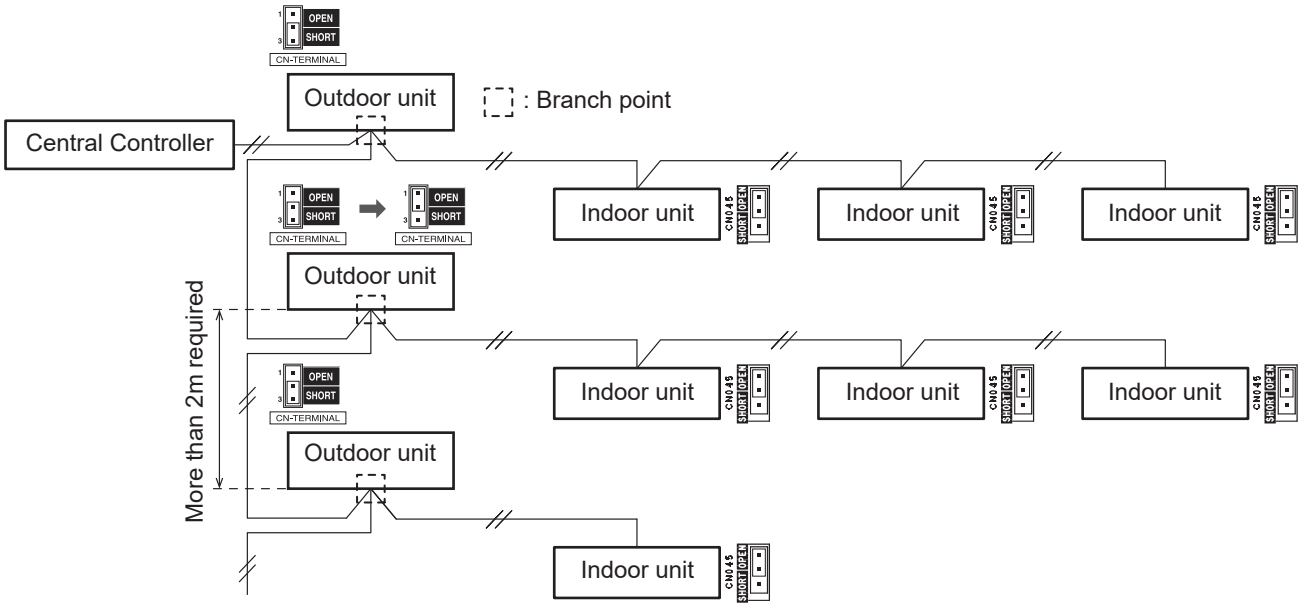
The setting of the terminating resistance changes according to the number of refrigerant systems connected to the integrated control wiring in the link.

- For one refrigerant system in the link wiring, it is necessary to set one terminating resistance to the valid (SHORT side). For over 2 refrigerant systems, it is necessary to set 2 terminating resistance to the valid (SHORT side).
- The valid or invalid setting of the terminating resistance is basically carried out with the outdoor unit. However, 3-line connection outdoor unit cannot make a setting of terminating resistance. In this case, the shortage of the valid setting for the terminating resistance should be carried out with the indoor unit. The setting of the terminating resistance of the 2-line outdoor unit at shipment is the valid (SHORT side) and outdoor unit is the invalid (OPEN side).

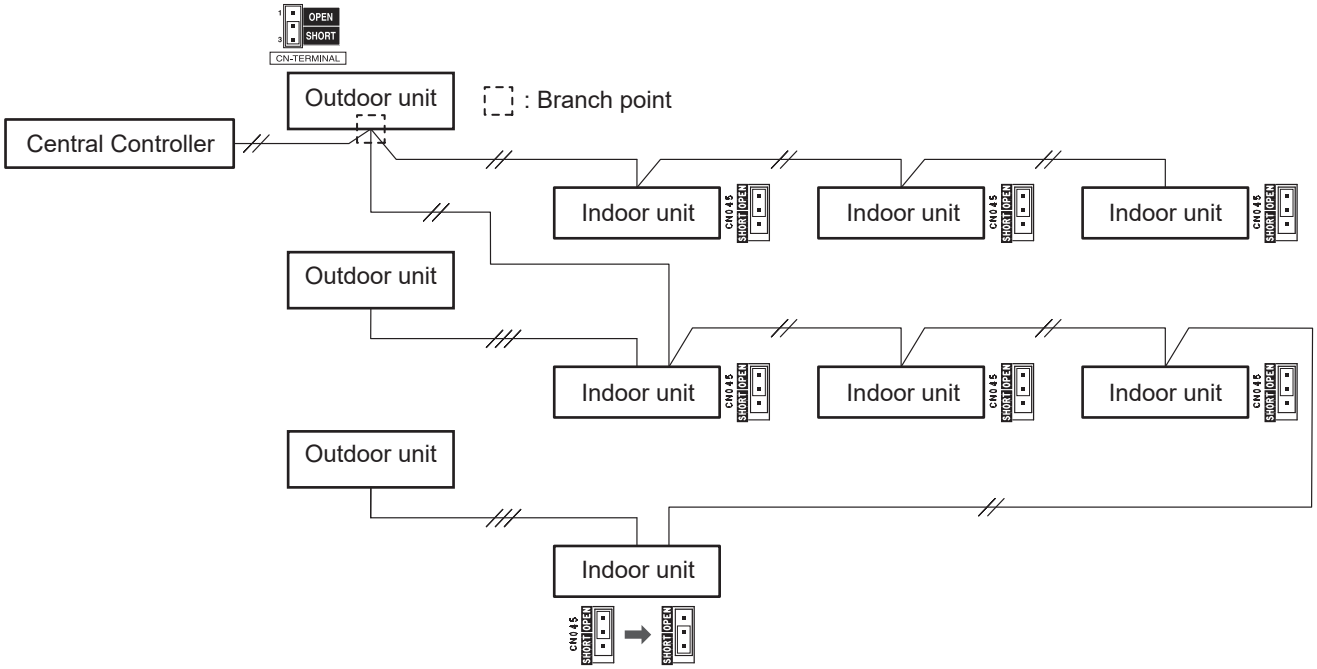
● In case that the inter-unit control wiring in the link are all 3-line connection:



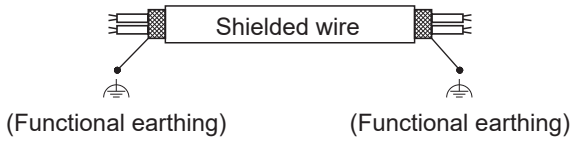
- In case that the inter-unit control wiring in the link are all 2-line connection only, or mixed with 2-line and 3-line connections:
  1) All refrigerant systems are 2-line connection:



  2) Only one refrigerant system is 2-line connection and other refrigerant systems are 3-line connection:



(5) Use shielded wires for inter-unit control wiring (C) and ground the shield on both sides, otherwise misoperation from noise may occur.
Connect wiring as shown in Section "■ Wiring System Diagrams" on page 1-10-1-2-3 to 1-10-1-2-5.



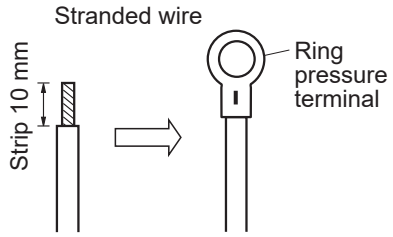
(6) • In the case of 3-line connection, connection cable between outdoor and indoor unit shall be approved polychloroprene sheathed flexible cord. Type designation 60245 IEC57 (H05RN-F, GP85PCP etc.) or heavier cord.
• Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conform to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (60245 IEC57, 60245 IEC66)

⚠ WARNING

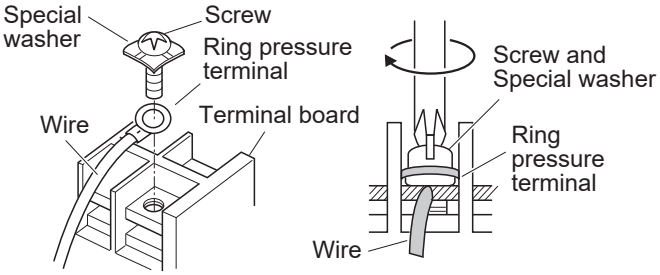
Loose wiring may cause the terminal to overheat or result in unit malfunction.
A fire hazard may also occur. Therefore, ensure that all wiring is tightly connected.
When connecting each power wire to the terminal, follow the instructions on "●How to connect wiring to the terminal" and fasten the wire securely with the terminal screw.

● How to connect wiring to the terminal
For stranded wiring

(1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends.

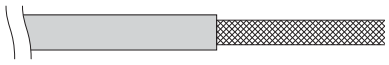


(2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal board.
(3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
(4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver.

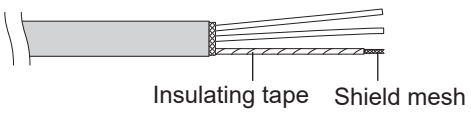


Examples of shield wires

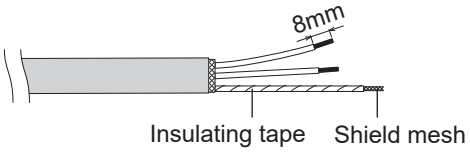
(1) Remove cable coat not to scratch braided shield.



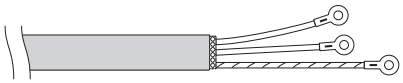
(2) Unbraid the braided shield carefully and twist the unbraided shield wires tightly together. Insulate the shiel wires by covering them with an insulation tube or wrapping insulating tape around them.

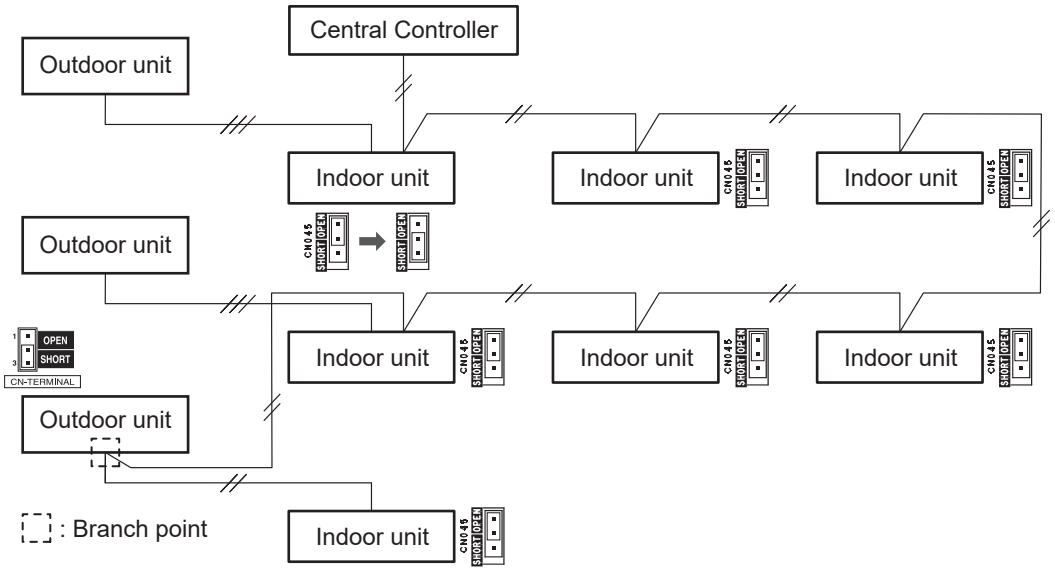


(3) Remove coat of signal wire.

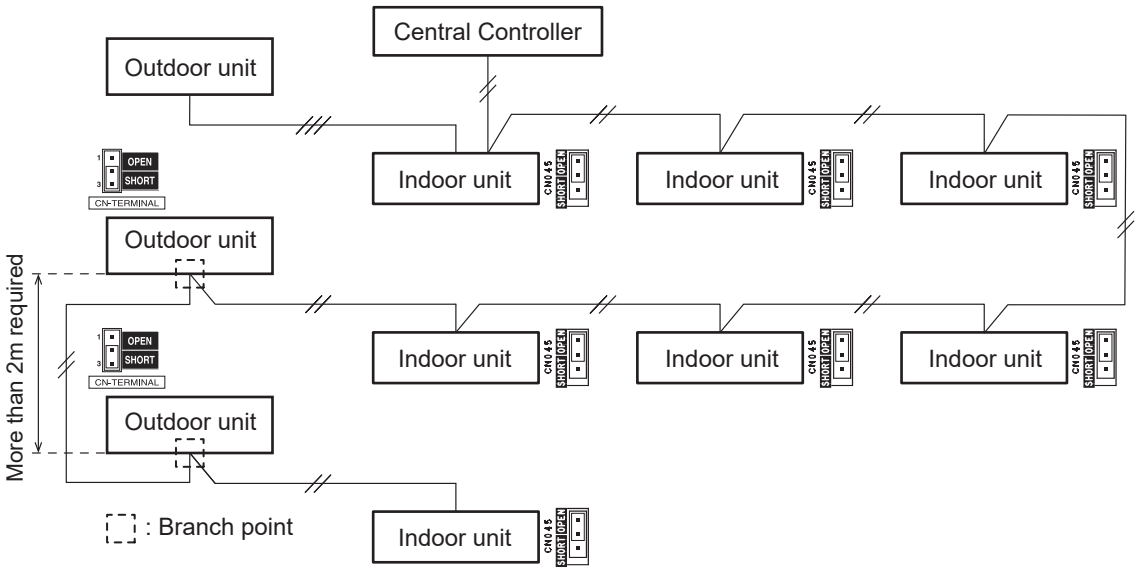


(4) Attach ring pressure terminals to the signal wires and theshield wires insulated in Step (2).





3) Only one refrigerant system is 3-line connection and other refrigerant systems are 2-line connection:



1-10-1-3. Wall Mounted Type S-3650PK3E, S-6010PK3E

■ General Precautions on Wiring

(1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.

⚠ WARNING

(2) This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown. The ELCB must be incorporated in the fixed wiring in accordance with the wiring regulations. The ELCB must be an approved circuit capacity, having a contact separation in all poles.
The ELCB or RCD suitable for use with inverters, resistant to high frequency noise, is most suitable.
The ELCB's or RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.

(3) To prevent possible hazards from insulation failure, the unit must be grounded.

(4) Each wiring connection must be done in accordance with the wiring system diagram.
Wrong wiring may cause the unit to misoperate or become damaged.

(5) Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.

(6) Unauthorized changes in the internal wiring can be very dangerous. The manufacturer will accept no responsibility for any damage or misoperation that occurs as a result of such unauthorized changes.

(7) Regulations on wire diameters differ from locality to locality. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
You must ensure that installation complies with all relevant rules and regulations.

(8) To prevent malfunction of the air conditioner caused by electrical noise, care must be taken when wiring as follows:
- The remote control wiring and the inter-unit control wiring should be wired apart from the inter-unit power wiring.
- Use shielded wires for inter-unit control wiring between units and ground the shield on both sides.

⚠ CAUTION

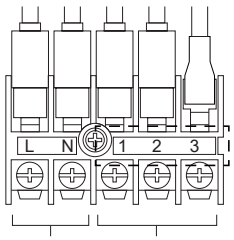
Check local electrical codes and regulations before wiring. Also, check any specified instruction or limitations.

■ Recommended Wire Length and Wire Diameter for Power Supply System

Check the type of the outdoor unit terminal board as illustrated below and make connection.

- **If 1, 2 and 3 are shown on the terminal board, it is for 3-line connection.**

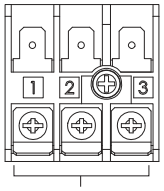
Single-phase / U-36~50PZ3E5
U-60~71PZ3E5A
U-36~60PZH3E5



Power supply cable

Connection cable between outdoor and indoor unit

Single-phase / U-100~140PZ3E5
U-71~140PZH3E5
3-phase / U-100~140PZ3E8
U-71~140PZH3E8



Connection cable between outdoor and indoor unit

Power supply cable

Type	(B) Power supply cable Min. 2.5 mm² *1	Time delay fuse or circuit capacity
K3	Max. 130 m *2	15 A

Connection cable between outdoor and indoor unit

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36~50PZ3E5, U-60~71PZ3E5A Min. 1.5 mm² *1	(G) Outdoor unit U-100 ~ 140PZ3E5, U-100 ~ 140PZ3E8 Min. 2.5 mm² *1
K3	Max. 40 m *2	Max. 50 m *2

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36 ~ 60PZH3E5 Min. 1.5 mm² *1	(G) Outdoor unit U-71 ~ 140PZH3E5, U-71 ~ 140PZH3E8 Min. 2.5 mm² *1
K3	Max. 40 m *2	Max.85 m *2

Control wiring

(C) Inter-unit (between Integrated control system and indoor units) control wiring	(D) Remote control wiring	(E) Remote control wiring for group control
Min. 0.75 mm² Use shielded wiring *3	Min. 0.75 mm²	Min. 0.75 mm²
Max. 1,000 m	(D) + (E) : Max. 500 m (E) : Max. 200 m The above descriptions can be used for the model CZ-RTC4, CZ-RTC5B and CZ-RTC6 Series. For other remote controllers, refer to the manual of each unit.	

NOTE

*1 Maximum applicable wire for terminal board of indoor unit : 2.5 mm²

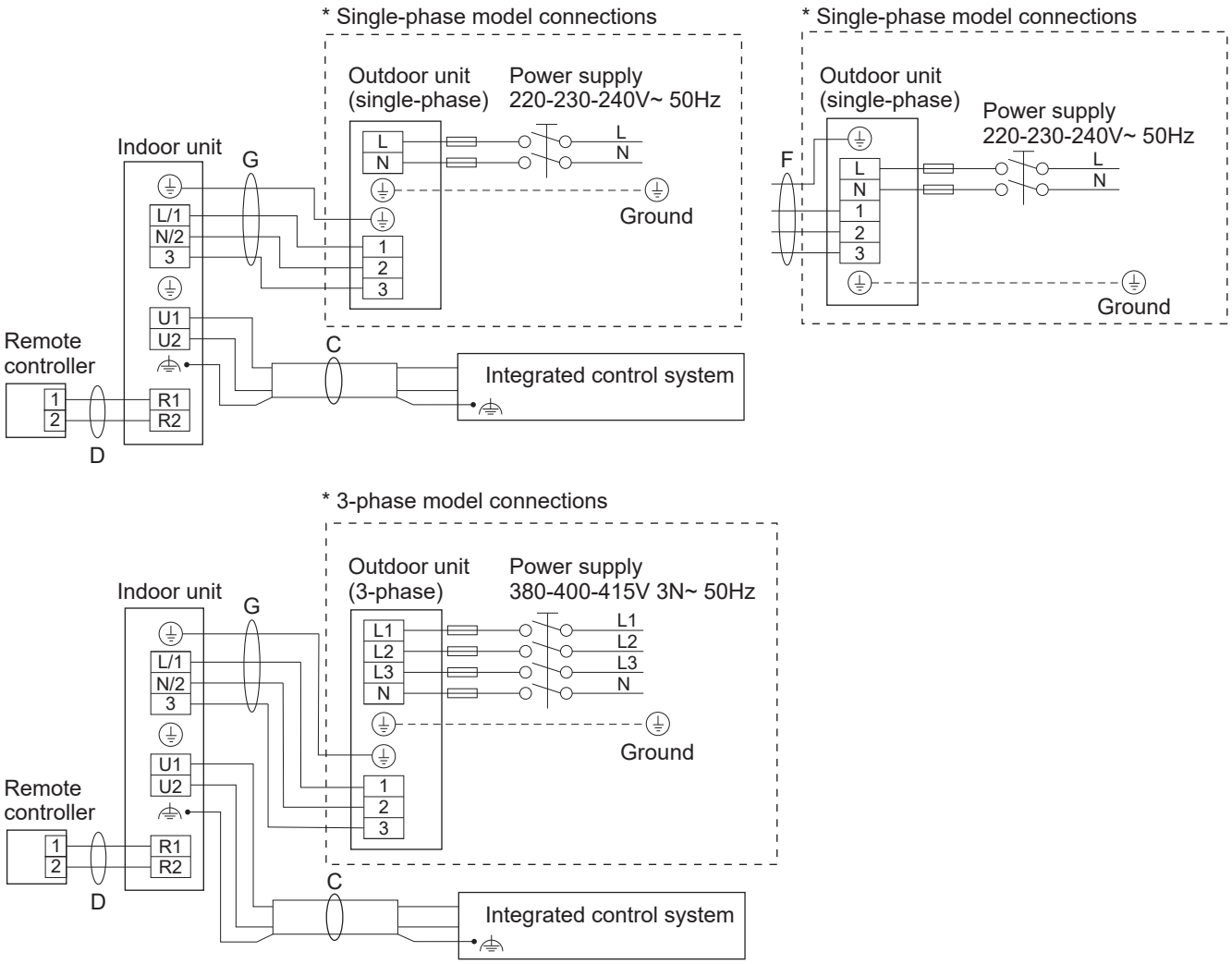
*2 This maximum length shows a 2% voltage drop.

*3 With ring-type wire terminal.

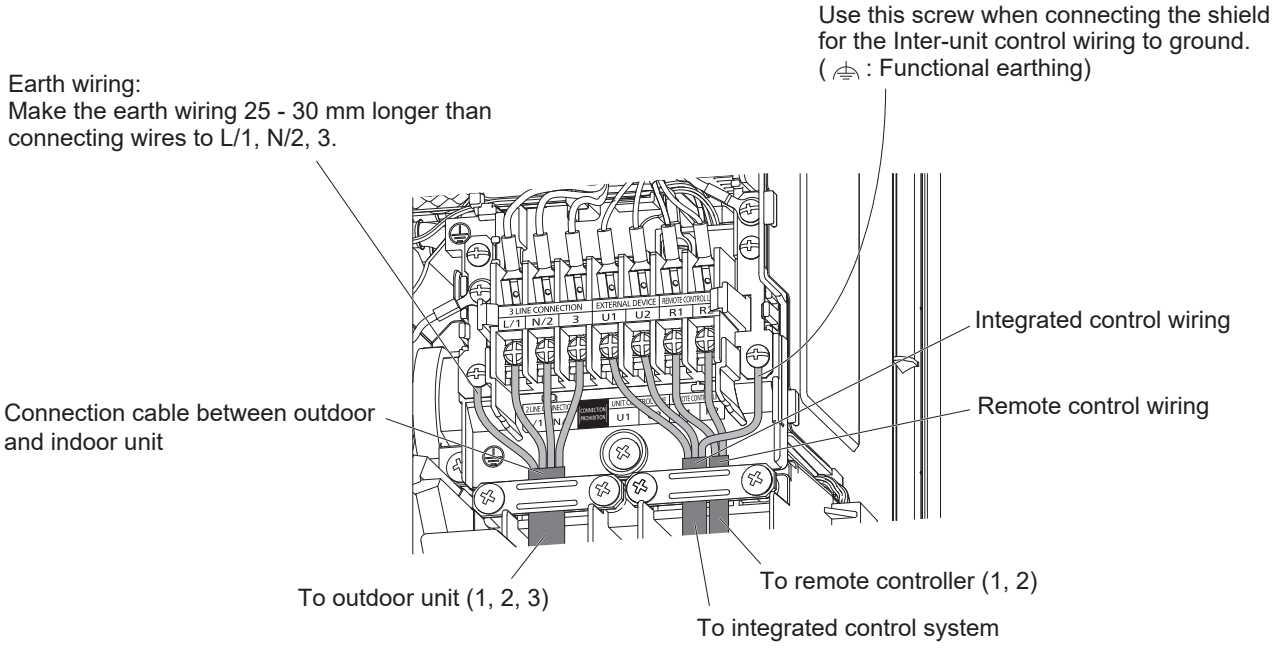
■ Wiring System Diagrams

● 3-LINE CONNECTION

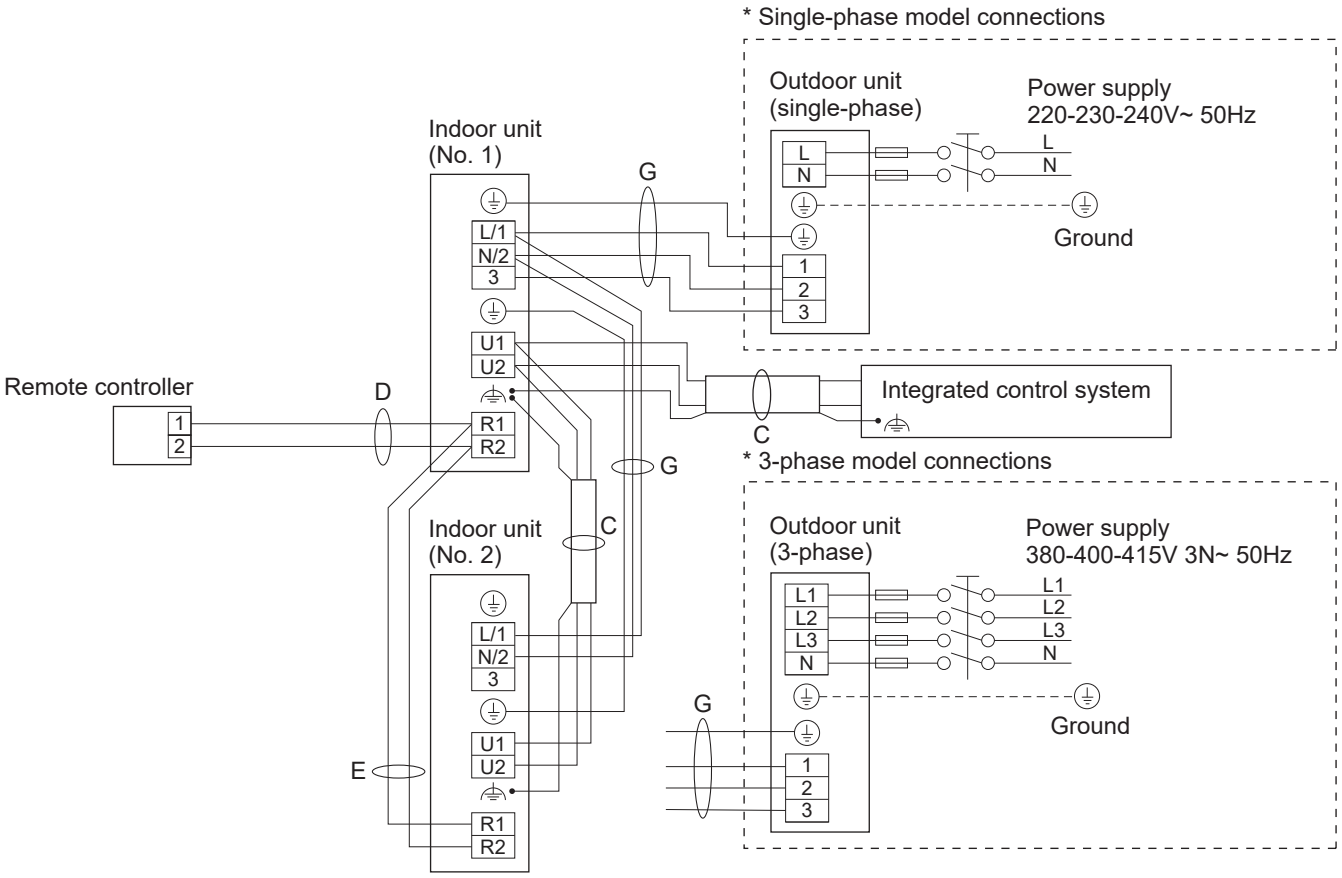
Example : Single connection



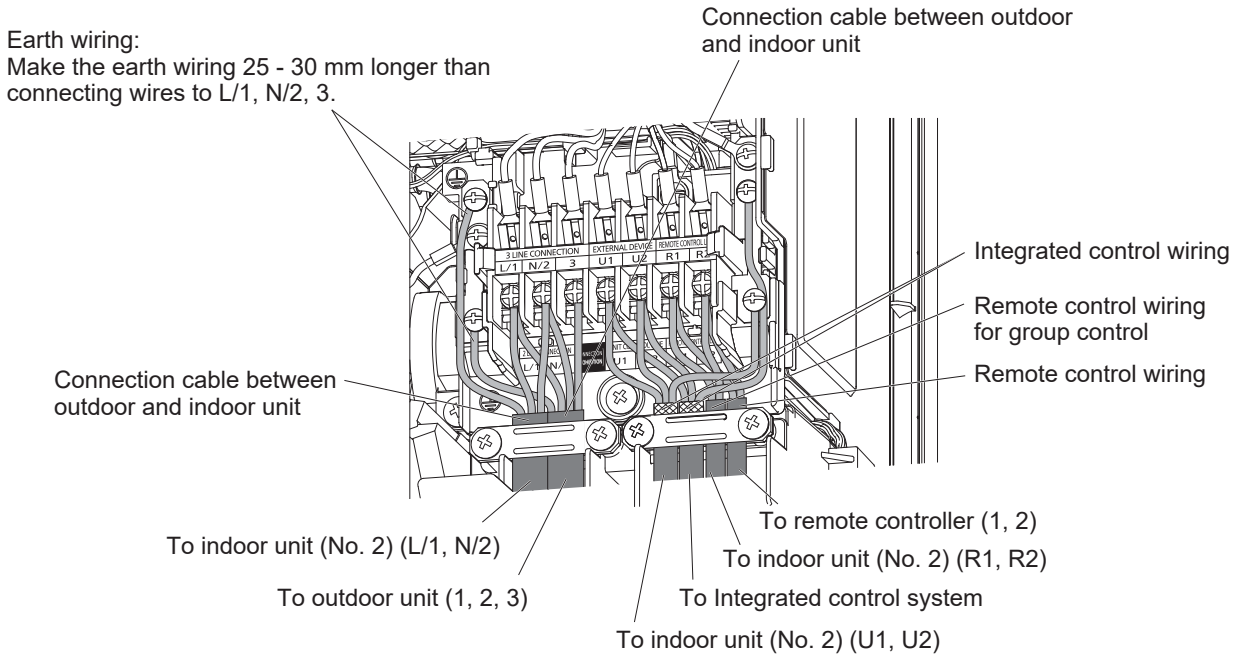
Indoor unit wiring sample



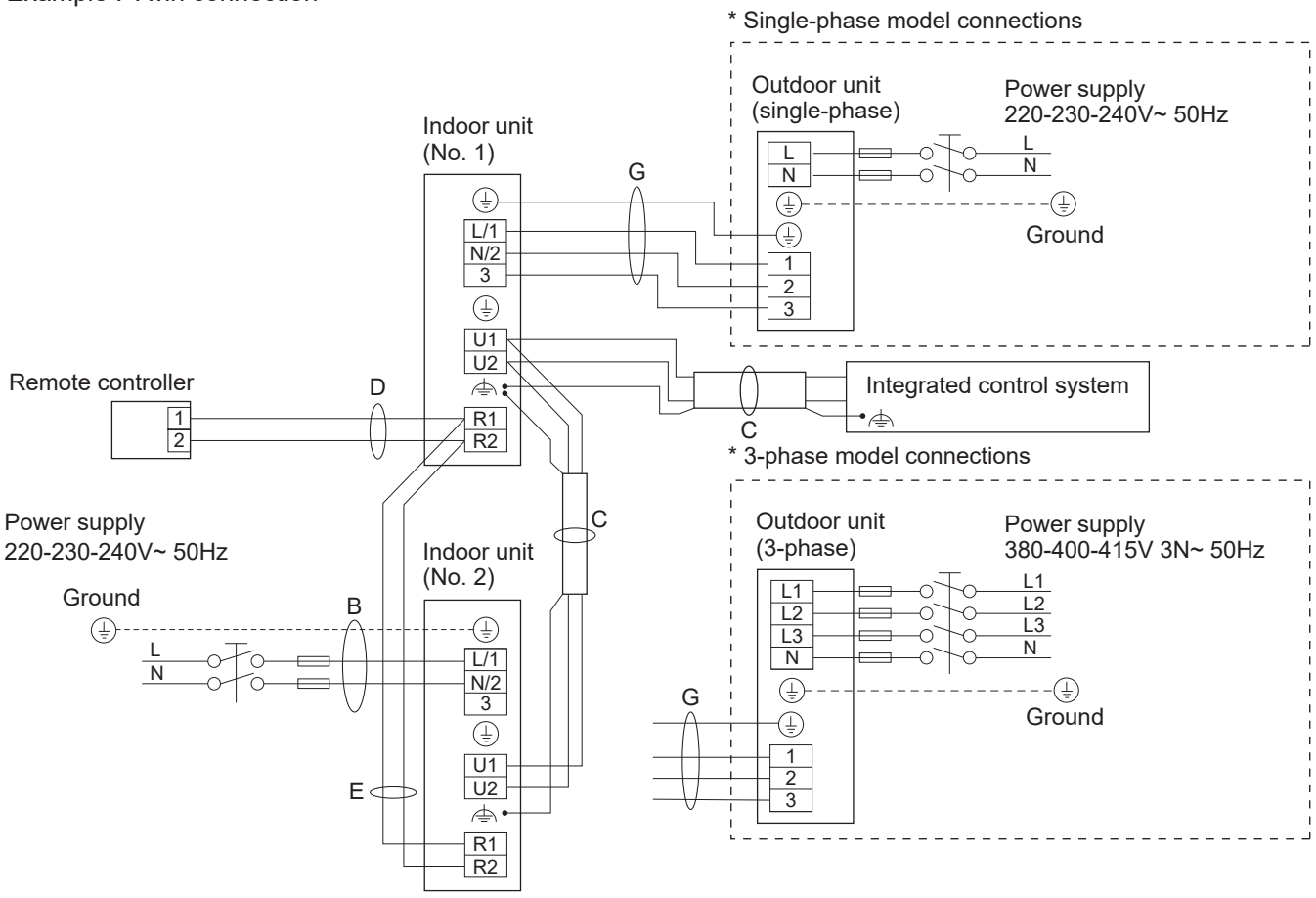
Example : Twin connection



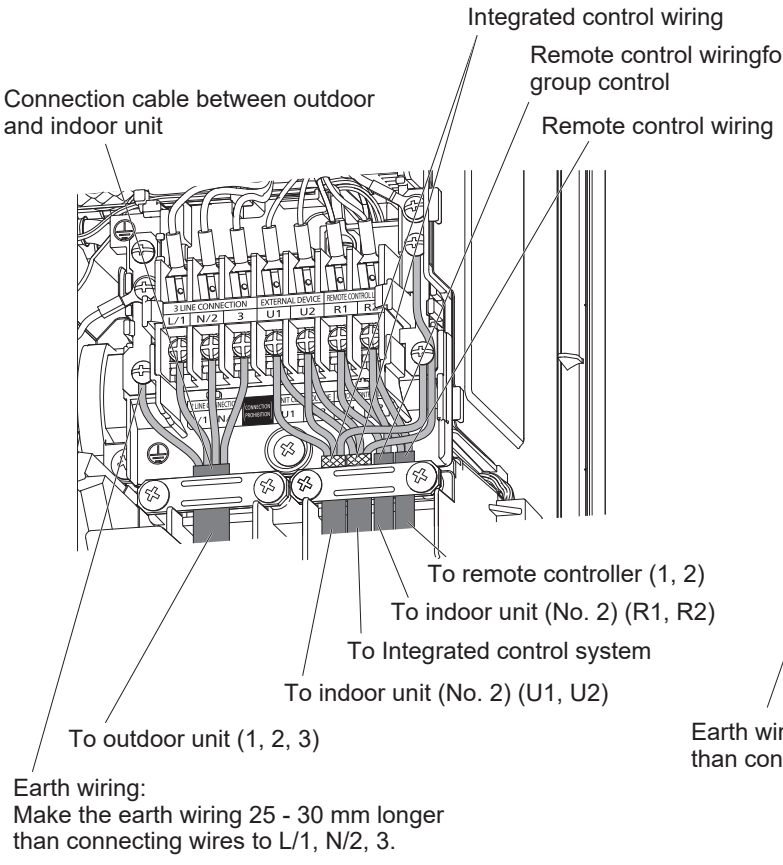
Indoor unit (No. 1) wiring sample



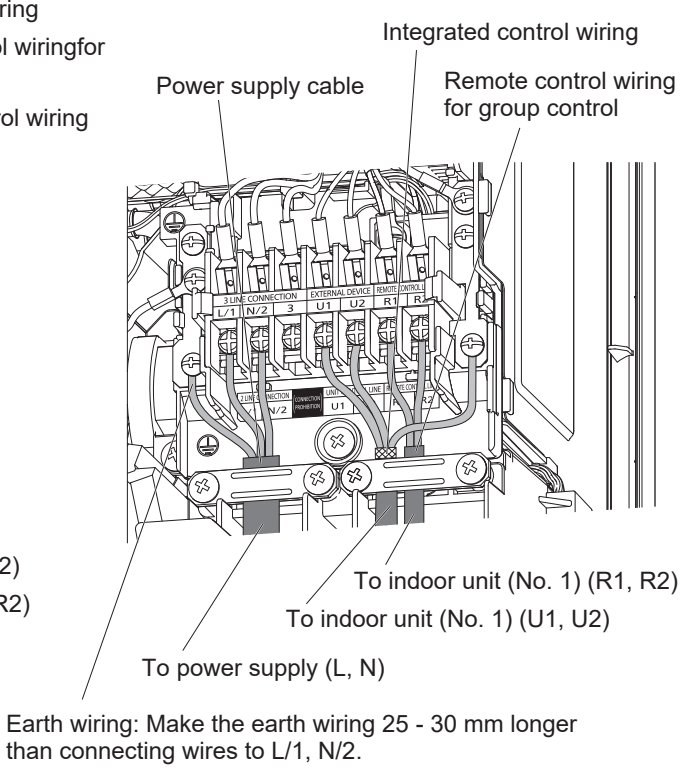
Example : Twin connection



Indoor unit (No. 1) wiring sample

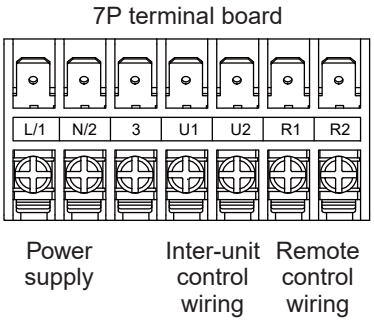


Indoor unit (No. 2) wiring sample



NOTE

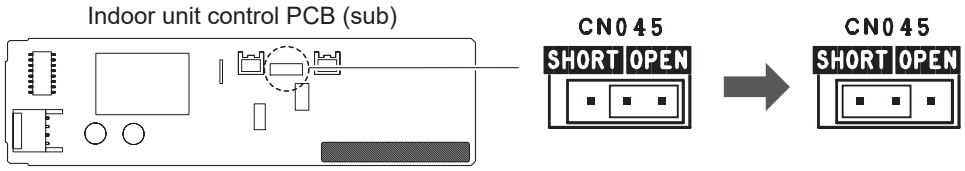
(1) See "■Recommended Wire Length and Wire Diameter for Power Supply System" on page 1-10-1-3-2 for the explanation of "B", "C", "D", "E", "F" and "G" under "■Wiring System Diagrams" on page 1-10-1-3-3 to 1-10-1-3-5.
(2) The basic connection diagram of the indoor unit shows the terminal boards, so the terminal boards in your equipment may differ from the diagram.
(3) Refrigerant Circuit address should be set before turning the power on.
(4) Regarding Refrigerant Circuit address setting, refer to the installation instructions supplied with the remote controller (Optional).
Auto address setting can be executed by remote controller automatically.



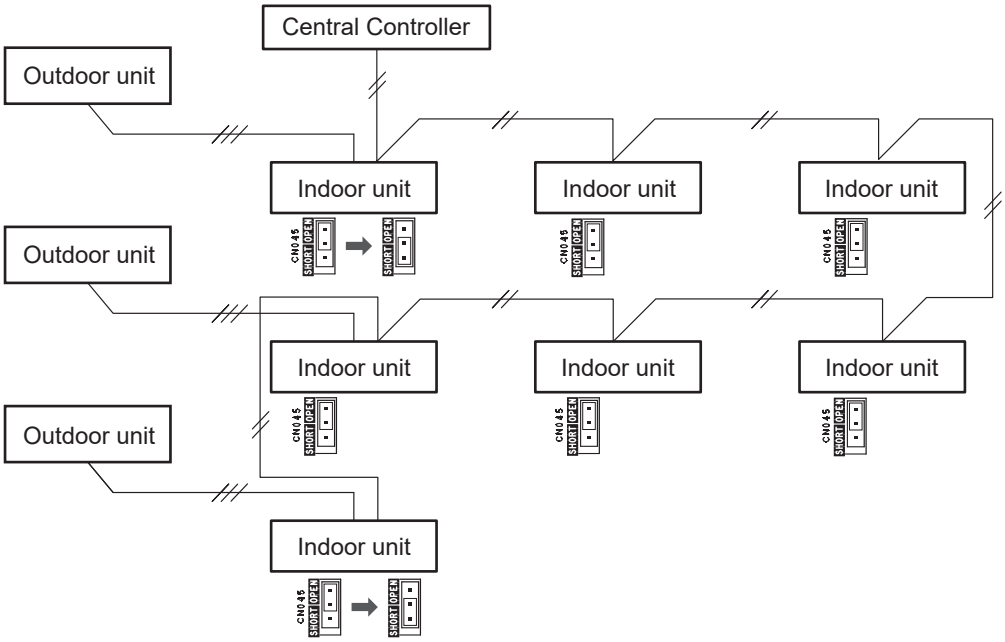
⚠ CAUTION

(1) When connecting to the integrated control system, the setting of the terminating resistance is required. Even more connection with the integrated control system is required, all indoor units in the link of 3-line connection should be connected with 2-line link wiring.

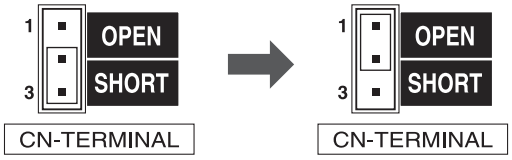
- **How to set the terminating resistance of the indoor unit**
  The setting of the terminating resistance should be made by CN045 on the indoor unit control PCB.
  The setting of indoor unit terminating resistance at shipment is OPEN side. If the shorting socket is moved as shown below, the terminating resistance is SHORT side (operative).
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.



- **In case that the inter-unit control wiring in the link are all 3-line connection:**

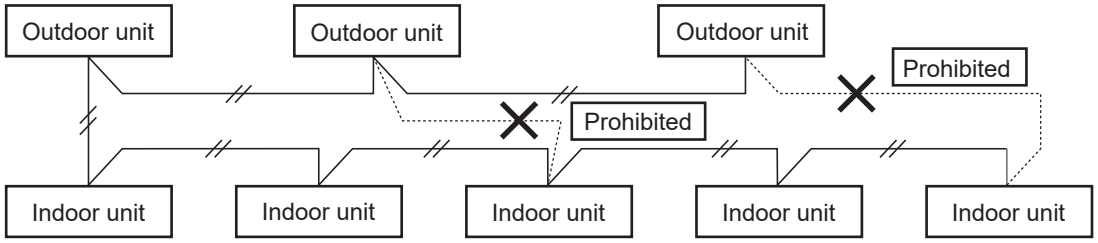


- **In case that the inter-unit control wiring in the link are mixed with 3-line and 2-line connections:**
  Set the terminating resistance with the TERMINAL pin (CN-TERMINAL) on the *outdoor unit control PCB.
  The setting of the outdoor unit terminating resistance at shipment is SHORT side (operative). Leave one unit in short circuit among outdoor units in the link.
  Change to OPEN for other units. It is not necessary to install all units' terminating resistance to OPEN side.
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.

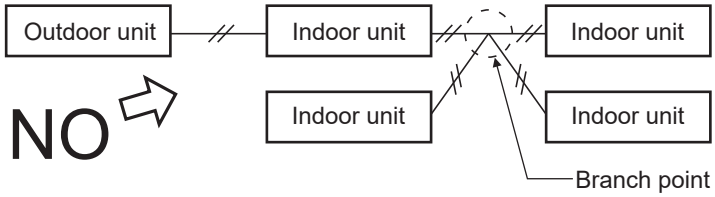


*** Outdoor unit is connected by 2-line connection.**

(2) Do not install the inter-unit control wiring in a way that forms a loop.



(3) Do not install inter-unit control wiring such as star branch wiring.
Star branch wiring causes mis-address setting.

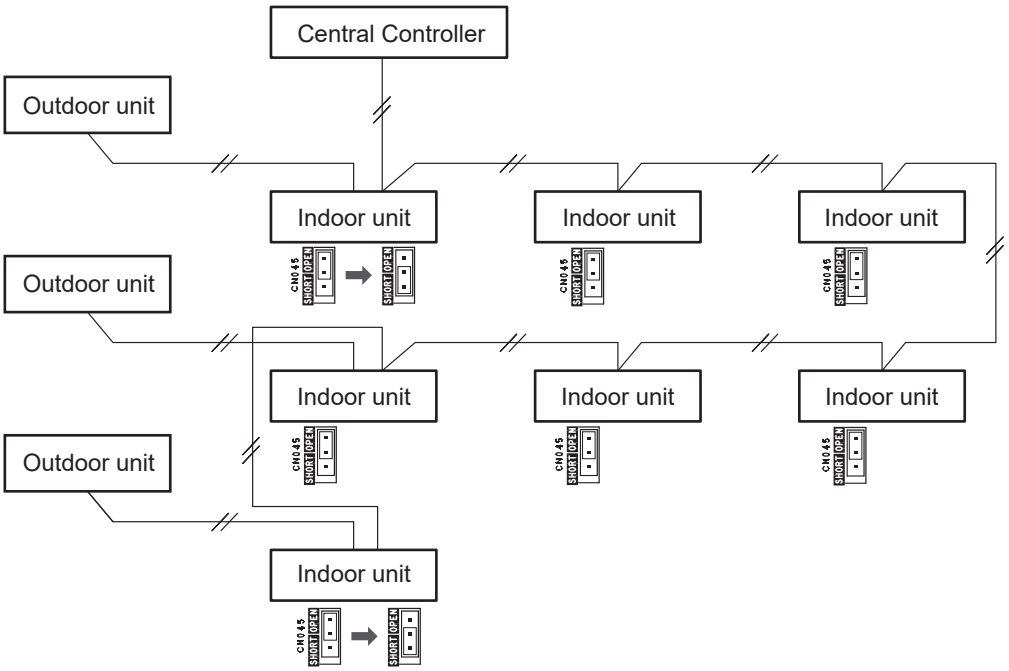


(4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer.

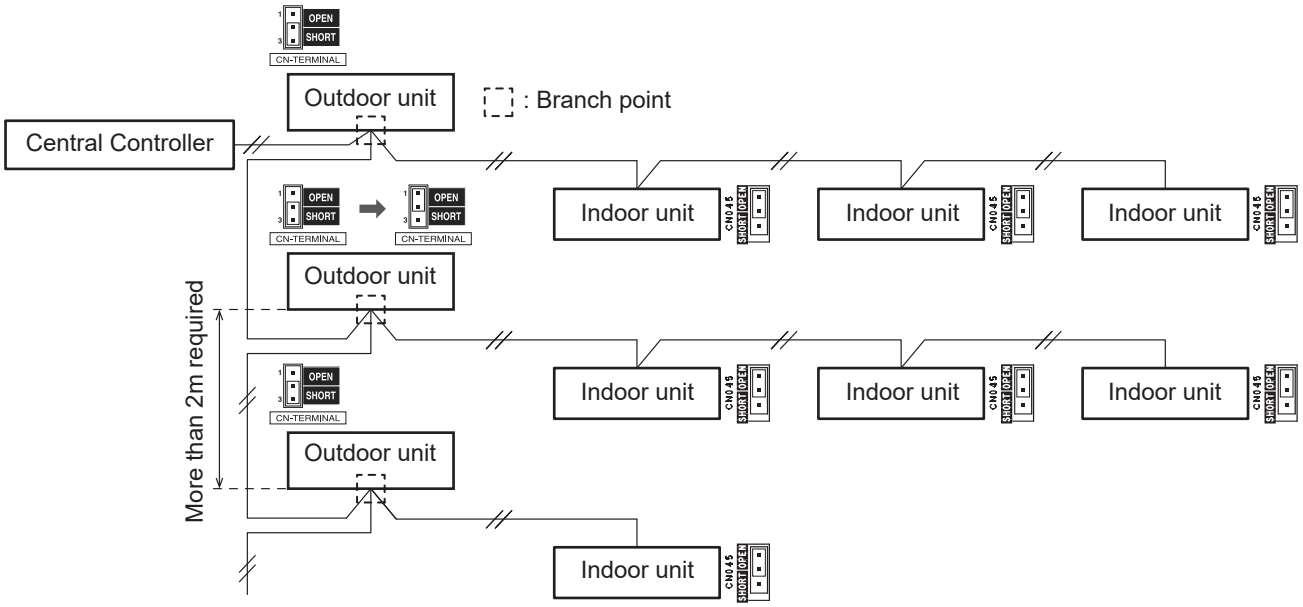
The setting of the terminating resistance changes according to the number of refrigerant systems connected to the integrated control wiring in the link.

- For one refrigerant system in the link wiring, it is necessary to set one terminating resistance to the valid (SHORT side). For over 2 refrigerant systems, it is necessary to set 2 terminating resistance to the valid (SHORT side).
- The valid or invalid setting of the terminating resistance is basically carried out with the outdoor unit. However, 3-line connection outdoor unit cannot make a setting of terminating resistance. In this case, the shortage of the valid setting for the terminating resistance should be carried out with the indoor unit. The setting of the terminating resistance of the 2-line outdoor unit at shipment is the valid (SHORT side) and outdoor unit is the invalid (OPEN side).

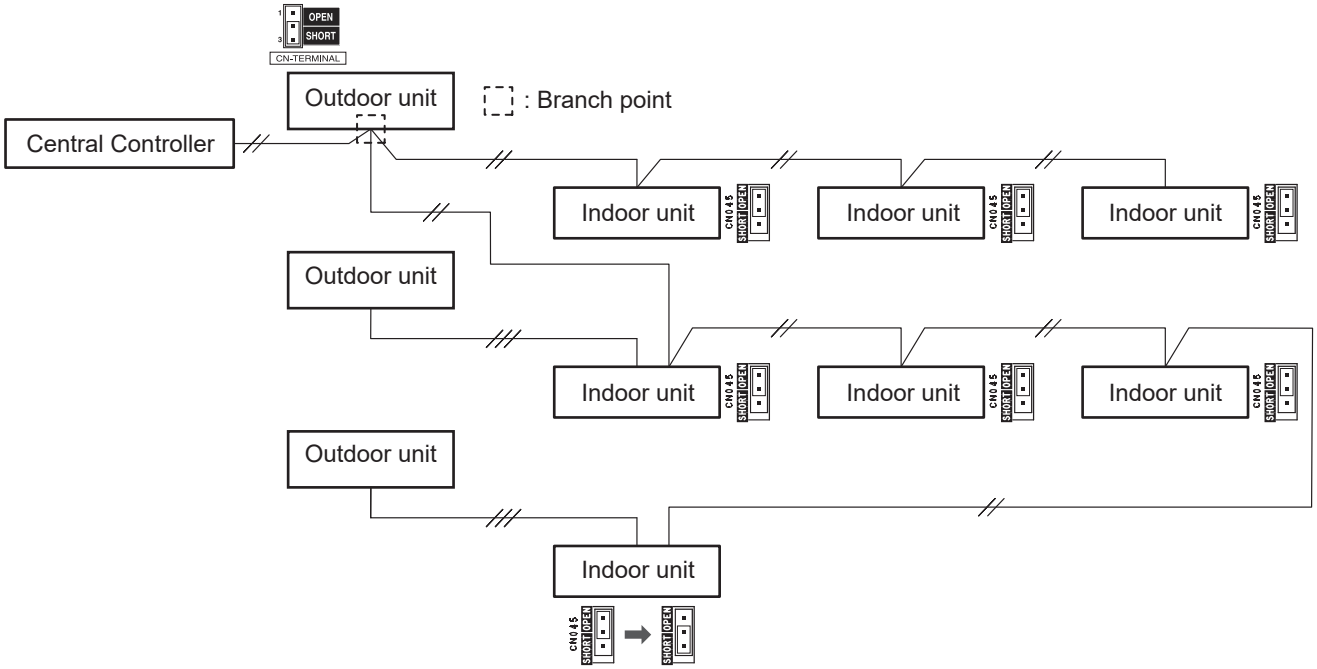
● In case that the inter-unit control wiring in the link are all 3-line connection:

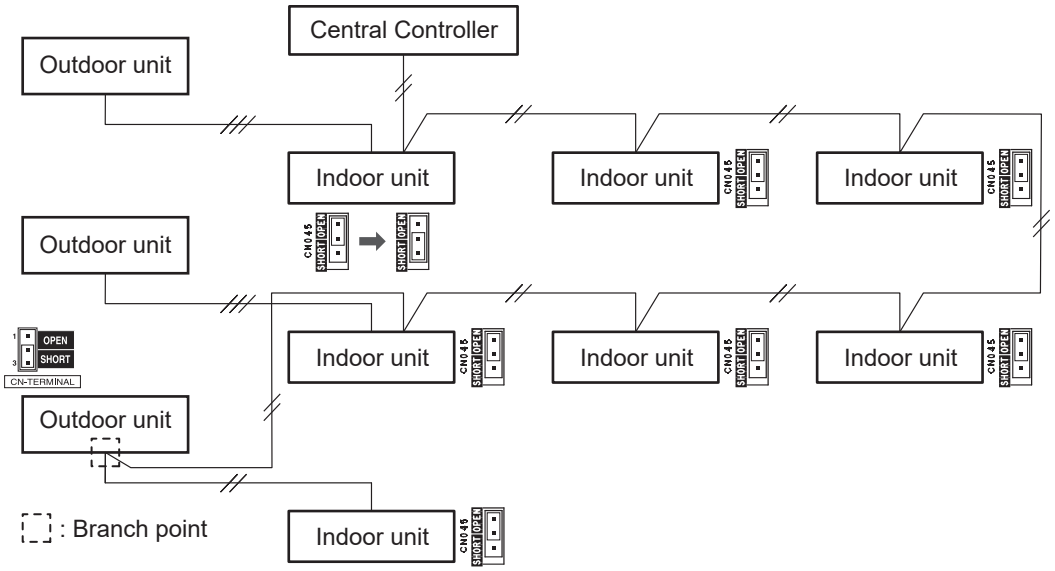


- In case that the inter-unit control wiring in the link are all 2-line connection only, or mixed with 2-line and 3-line connections:
  1) All refrigerant systems are 2-line connection:

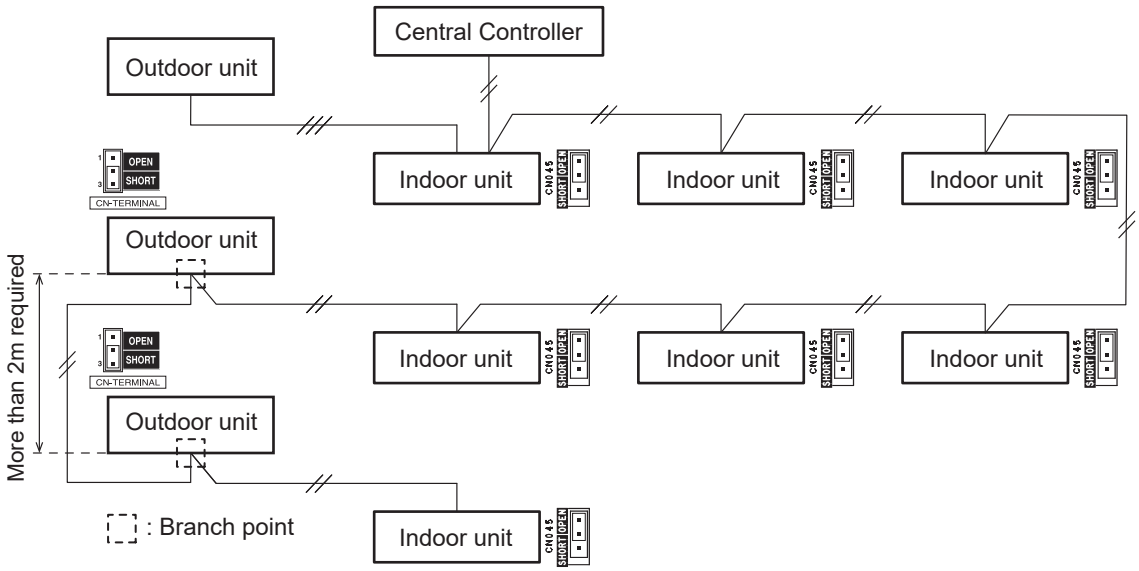


  2) Only one refrigerant system is 2-line connection and other refrigerant systems are 3-line connection:

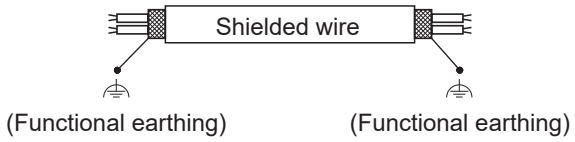




3) Only one refrigerant system is 3-line connection and other refrigerant systems are 2-line connection:



(5) Use shielded wires for inter-unit control wiring (C) and ground the shield on both sides, otherwise misoperation from noise may occur.
Connect wiring as shown in Section "■ Wiring System Diagrams" on page 1-10-1-3-3 to 1-10-1-3-5.



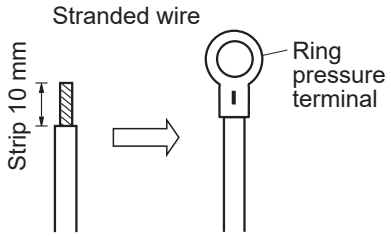
(6) • In the case of 3-line connection, connection cable between outdoor and indoor unit shall be approved polychloroprene sheathed flexible cord. Type designation 60245 IEC57 (H05RN-F, GP85PCP etc.) or heavier cord.
• Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conform to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (60245 IEC57, 60245 IEC66)

⚠ WARNING

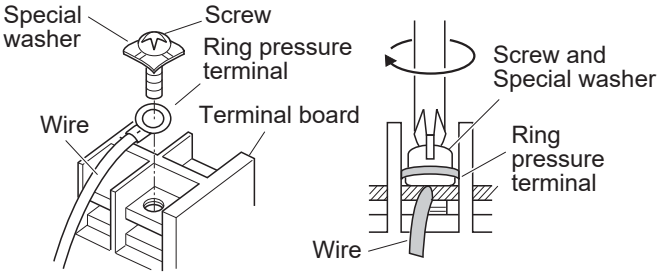
Loose wiring may cause the terminal to overheat or result in unit malfunction.
A fire hazard may also occur. Therefore, ensure that all wiring is tightly connected.
When connecting each power wire to the terminal, follow the instructions on "●How to connect wiring to the terminal" and fasten the wire securely with the terminal screw.

● How to connect wiring to the terminal
For stranded wiring

(1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends.

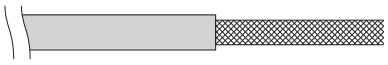


(2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal board.
(3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
(4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver.

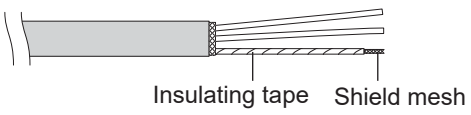


Examples of shield wires

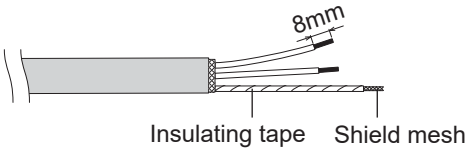
(1) Remove cable coat not to scratch braided shield.



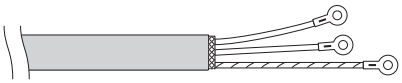
(2) Unbraid the braided shield carefully and twist the unbraided shield wires tightly together. Insulate the shiel wires by covering them with an insulation tube or wrapping insulating tape around them.



(3) Remove coat of signal wire.



(4) Attach ring pressure terminals to the signal wires and theshield wires insulated in Step (2).



1-10-1-4. Ceiling Type S-3650PT3E, S-6071PT3E, S-1014PT3E

■ General Precautions on Wiring

(1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.

⚠ WARNING

(2) This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown. The ELCB must be incorporated in the fixed wiring in accordance with the wiring regulations. The ELCB must be an approved circuit capacity, having a contact separation in all poles.
The ELCB or RCD suitable for use with inverters, resistant to high frequency noise, is most suitable.
The ELCB's or RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.

(3) To prevent possible hazards from insulation failure, the unit must be grounded.

(4) Each wiring connection must be done in accordance with the wiring system diagram.
Wrong wiring may cause the unit to misoperate or become damaged.

(5) Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.

(6) Unauthorized changes in the internal wiring can be very dangerous. The manufacturer will accept no responsibility for any damage or misoperation that occurs as a result of such unauthorized changes.

(7) Regulations on wire diameters differ from locality to locality. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
You must ensure that installation complies with all relevant rules and regulations.

(8) To prevent malfunction of the air conditioner caused by electrical noise, care must be taken when wiring as follows:
- The remote control wiring and the inter-unit control wiring should be wired apart from the inter-unit power wiring.
- Use shielded wires for inter-unit control wiring between units and ground the shield on both sides.

⚠ CAUTION

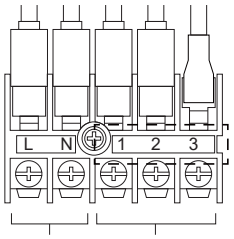
Check local electrical codes and regulations before wiring. Also, check any specified instruction or limitations.

■Recommended Wire Length and Wire Diameter for Power Supply System

Check the type of the outdoor unit terminal board as illustrated below and make connection.

- **If 1, 2 and 3 are shown on the terminal board, it is for 3-line connection.**

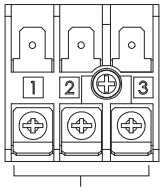
Single-phase / U-36~50PZ3E5
U-60~71PZ3E5A
U-36~60PZH3E5



Power supply cable

Connection cable between outdoor and indoor unit

Single-phase / U-100~140PZ3E5
U-71~140PZH3E5
3-phase / U-100~140PZ3E8
U-71~140PZH3E8



Connection cable between outdoor and indoor unit

Power supply cable

Type	(B) Power supply cable Min. 2.5 mm² *1	Time delay fuse or circuit capacity
T3	Max. 130 m *2	15 A

Connection cable between outdoor and indoor unit

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36~50PZ3E5, U-60~71PZ3E5A Min. 1.5 mm² *1	(G) Outdoor unit U-100 ~ 140PZ3E5, U-100 ~ 140PZ3E8 Min. 2.5 mm² *1
T3	Max. 40 m *2	Max. 50 m *2

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36 ~ 60PZH3E5 Min. 1.5 mm² *1	(G) Outdoor unit U-71 ~ 140PZH3E5, U-71 ~ 140PZH3E8 Min. 2.5 mm² *1
T3	Max. 40 m *2	Max.85 m *2

Control wiring

(C) Inter-unit (between Integrated control system and indoor units) control wiring	(D) Remote control wiring	(E) Remote control wiring for group control
Min. 0.75 mm² Use shielded wiring *3	Min. 0.75 mm²	Min. 0.75 mm²
Max. 1,000 m	(D) + (E) : Max. 500 m (E) : Max. 200 m The above descriptions can be used for the model CZ-RTC4, CZ-RTC5B and CZ-RTC6 Series. For other remote controllers, refer to the manual of each unit.	

NOTE

*1 Maximum applicable wire for terminal board of indoor unit : 4 mm²

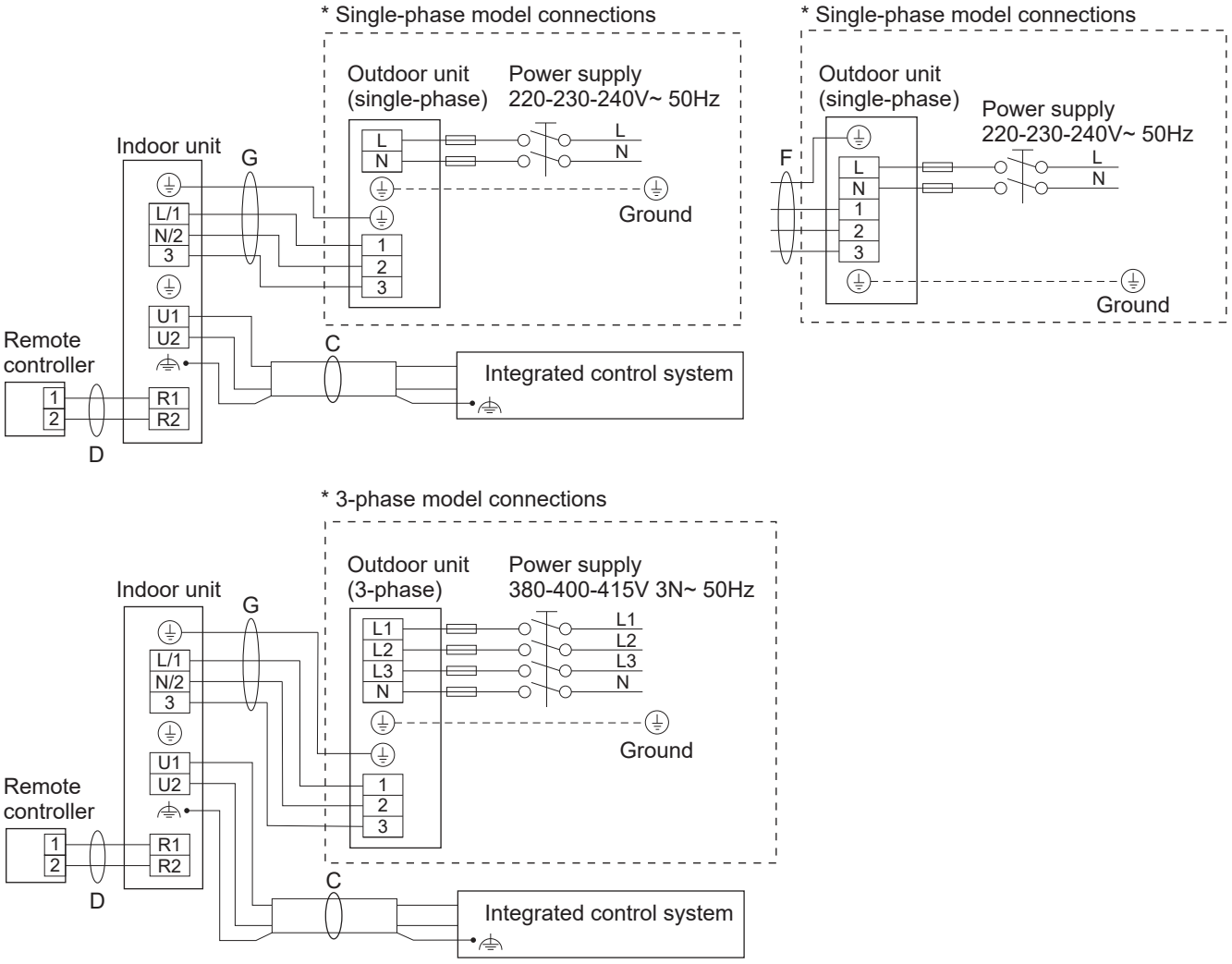
*2 This maximum length shows a 2% voltage drop.

*3 With ring-type wire terminal.

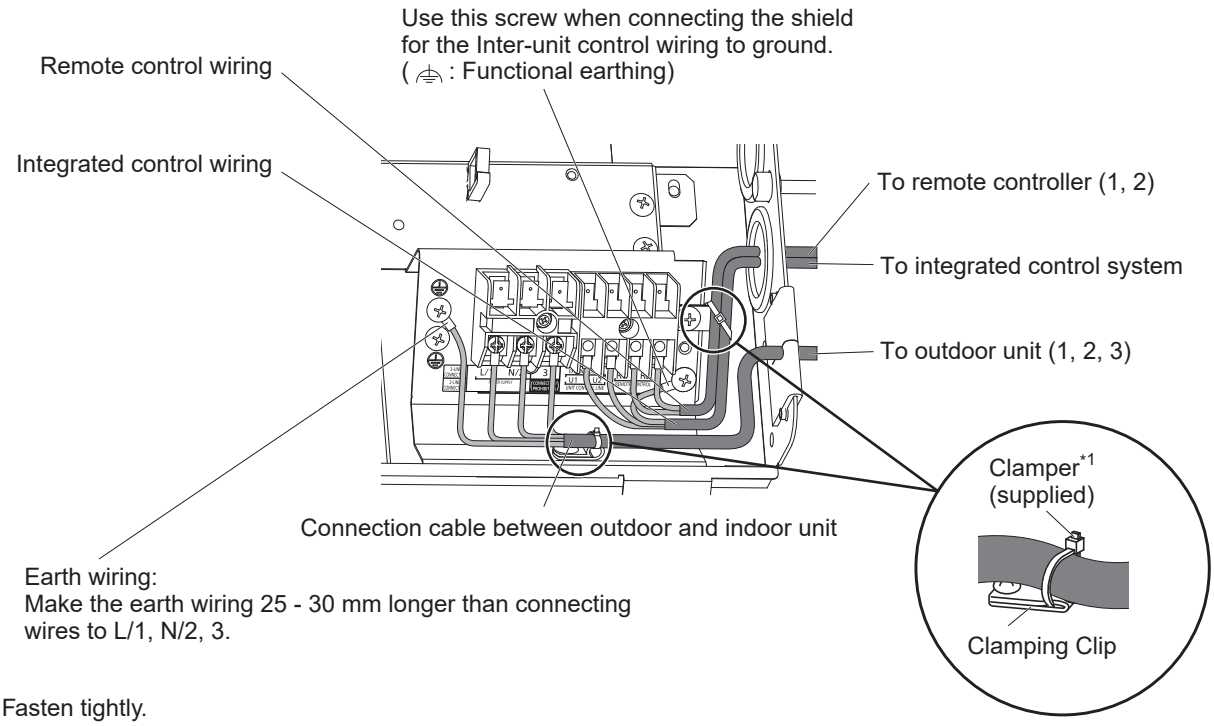
■ Wiring System Diagrams

● 3-LINE CONNECTION

Example : Single connection

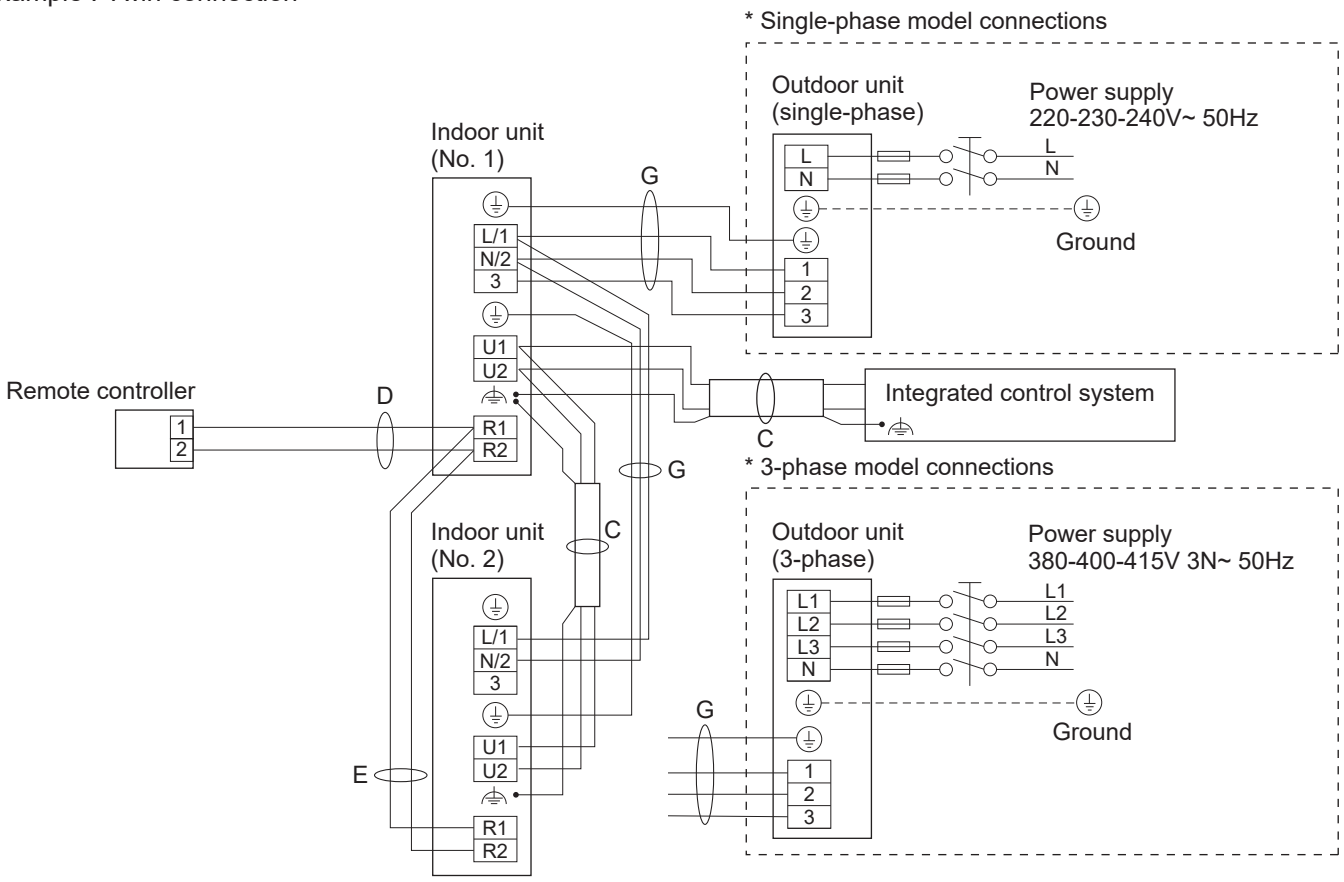


Indoor unit wiring sample

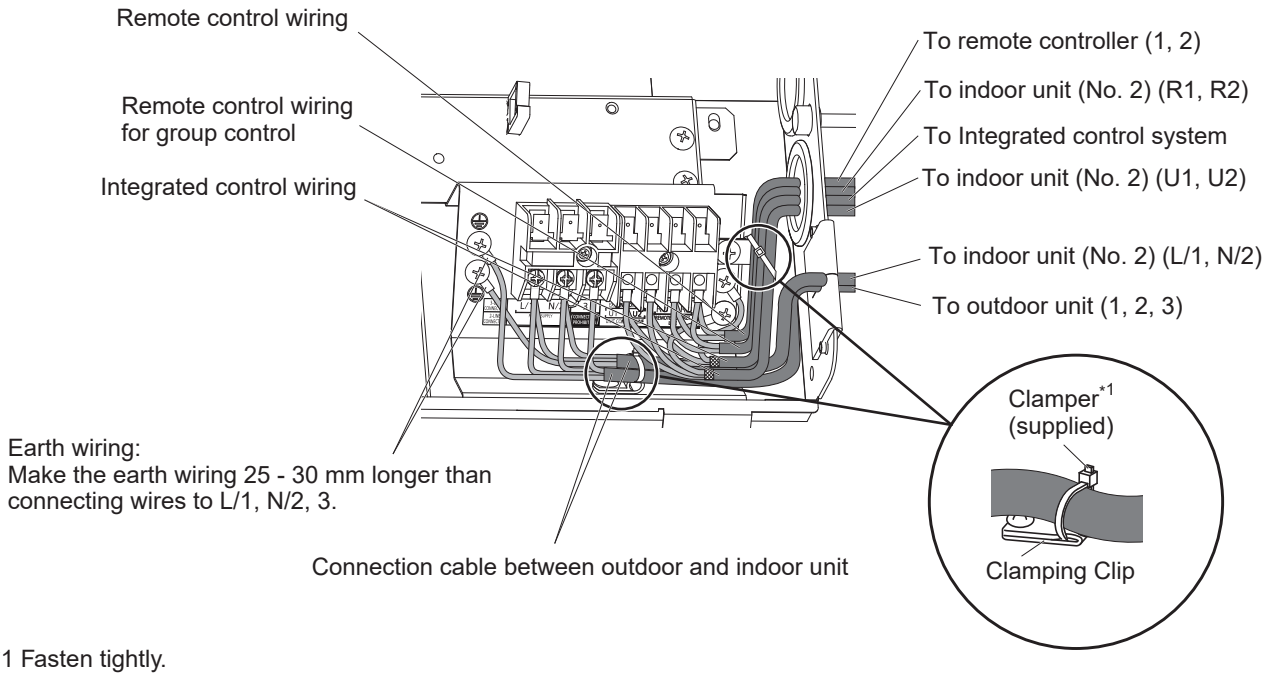


*1 Fasten tightly.

Example : Twin connection

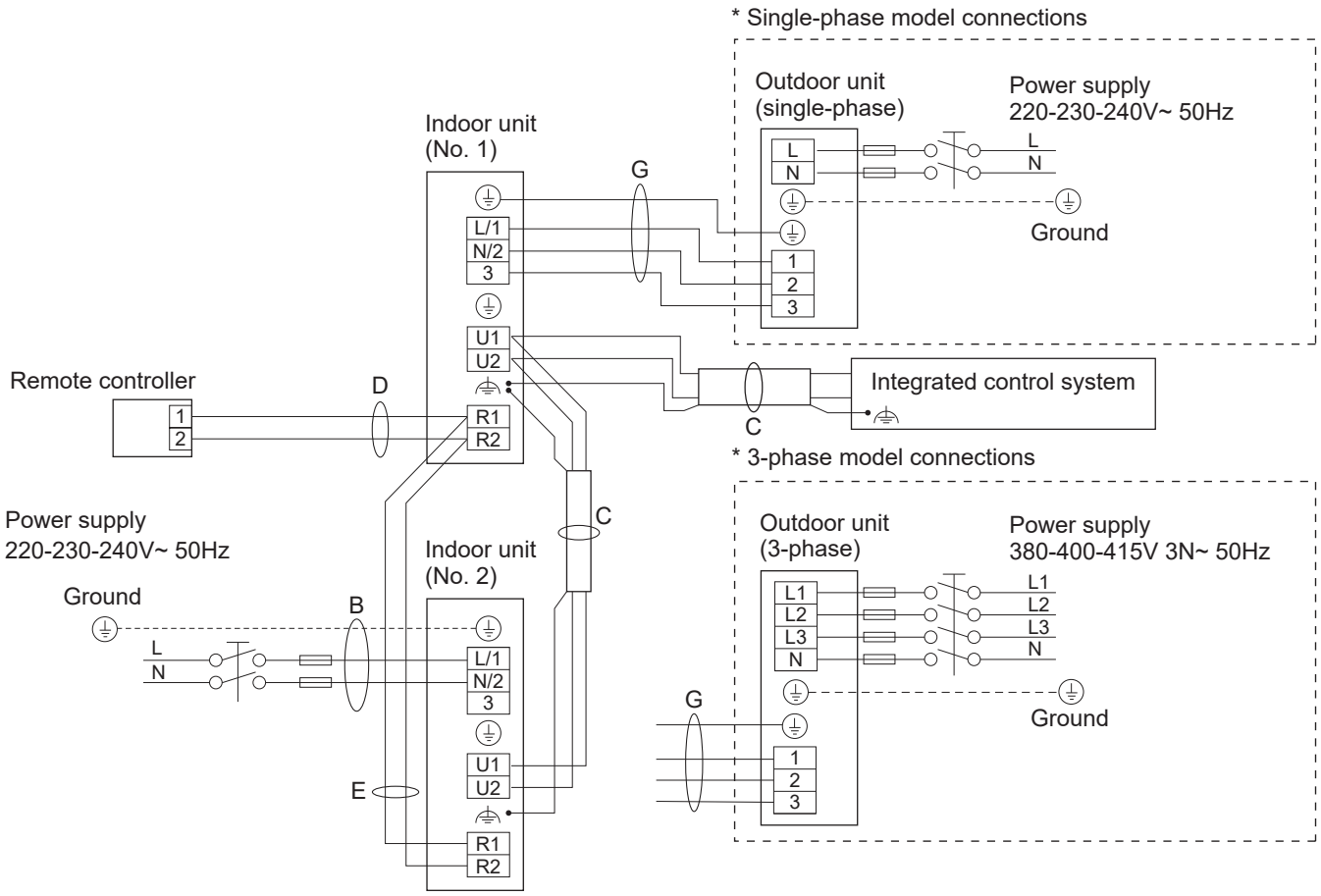


Indoor unit (No. 1) wiring sample

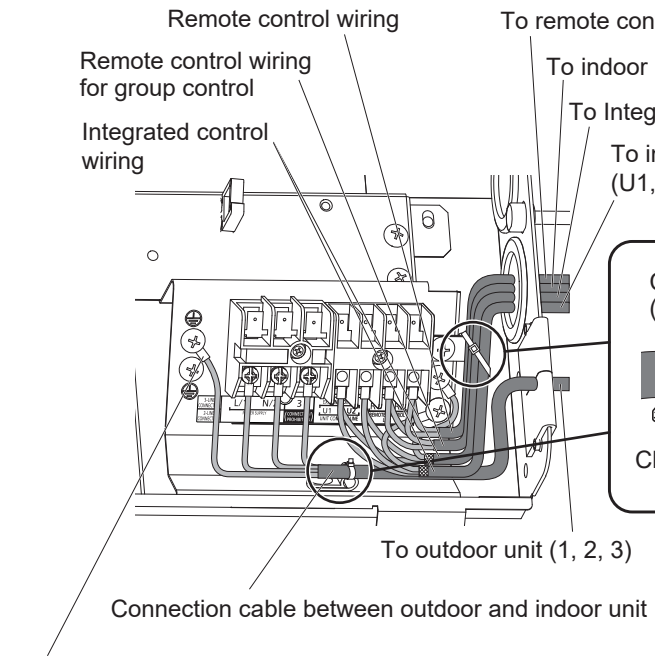


*1 Fasten tightly.

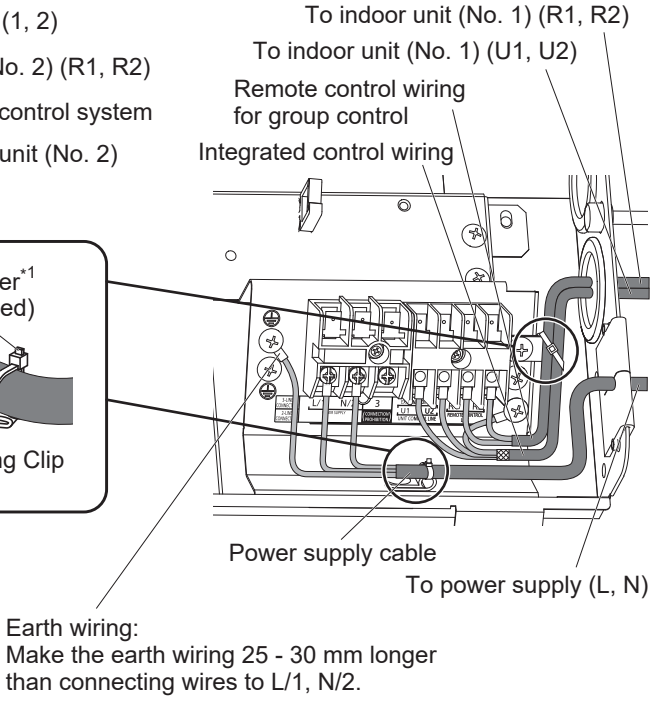
Example : Twin connection



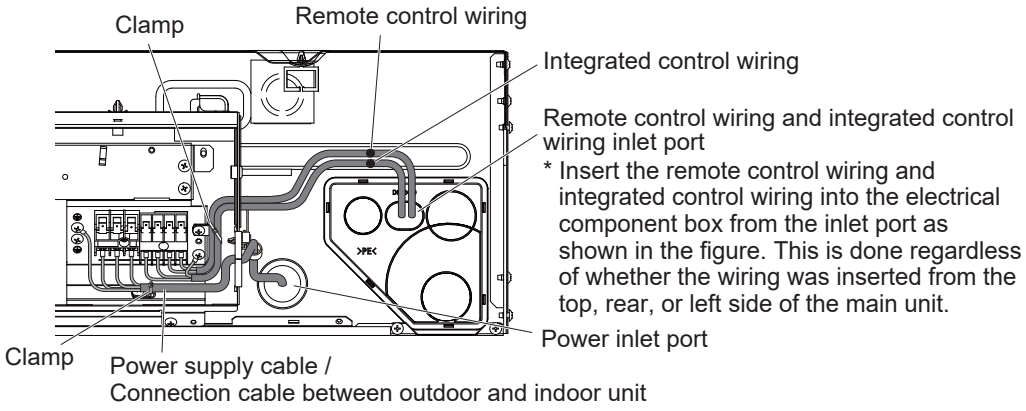
Indoor unit (No. 1) wiring sample



Indoor unit (No. 2) wiring sample



*1 Fasten tightly.



How to carry out power supply wiring

(1) Wiring connection ports
The power inlet port is located at the rear.
The remote control wiring inlet port is located at the rear (for use with the wired remote controller). For details, see the figure under the section on page 1-11-1-4-2 (3).

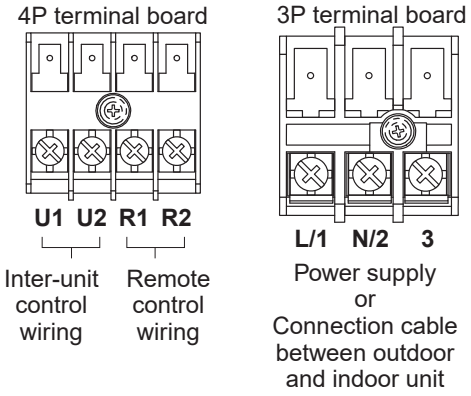
(2) How to carry out wiring
- Insert the power wiring into the indoor unit through the rubber at the side of the electrical component box.
- For wiring connection to the outdoor unit and remote control wiring, open the elongated hole of the piping cover and pass the wires through the hole.

NOTE

Be sure to use sealing putty to seal off the opening to prevent dust.

NOTE

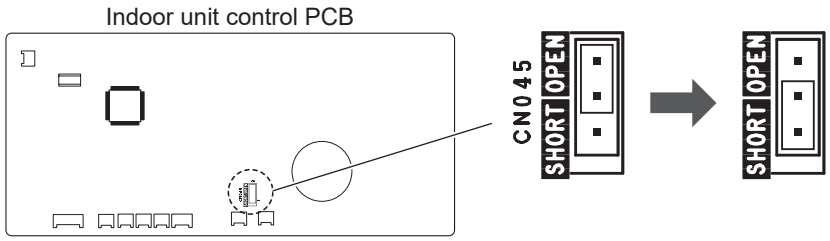
(1) See "■Recommended Wire Length and Wire Diameter for Power Supply System" on page 1-10-1-4-2 for the explanation of "B", "C", "D", "E", "F" and "G" under "■Wiring System Diagrams" on page 1-10-1-4-3 to 1-10-1-4-5.
(2) The basic connection diagram of the indoor unit shows the terminal boards, so the terminal boards in your equipment may differ from the diagram.
(3) Refrigerant Circuit address should be set before turning the power on.
(4) Regarding Refrigerant Circuit address setting, refer to the installation instructions supplied with the remote controller (Optional).
Auto address setting can be executed by remote controller automatically.



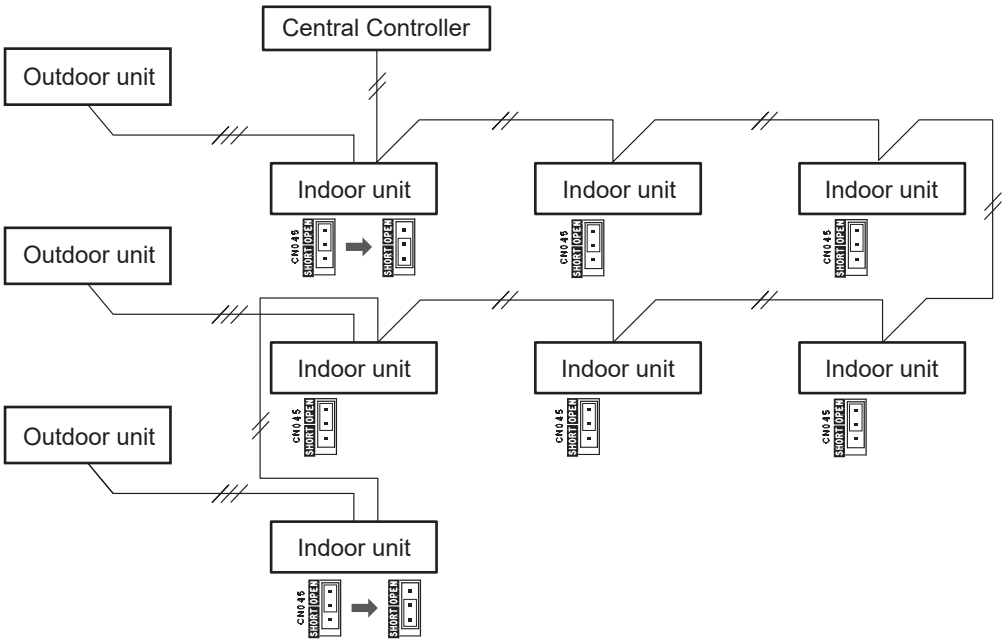
⚠ CAUTION

(1) When connecting to the integrated control system, the setting of the terminating resistance is required. Even more connection with the integrated control system is required, all indoor units in the link of 3-line connection should be connected with 2-line link wiring.

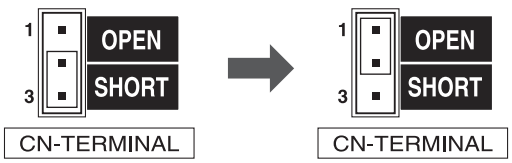
- **How to set the terminating resistance of the indoor unit**
  The setting of the terminating resistance should be made by CN045 on the indoor unit control PCB.
  The setting of indoor unit terminating resistance at shipment is OPEN side. If the shorting socket is moved as shown below, the terminating resistance is SHORT side (operative).
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.



- **In case that the inter-unit control wiring in the link are all 3-line connection:**

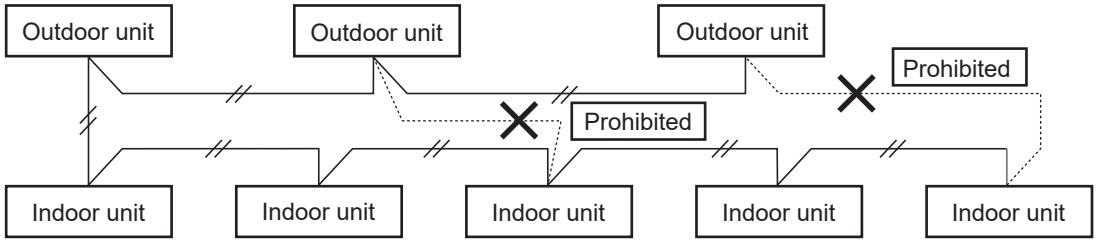


- **In case that the inter-unit control wiring in the link are mixed with 3-line and 2-line connections:**
  Set the terminating resistance with the TERMINAL pin (CN-TERMINAL) on the *outdoor unit control PCB.
  The setting of the outdoor unit terminating resistance at shipment is SHORT side (operative). Leave one unit in short circuit among outdoor units in the link.
  Change to OPEN for other units. It is not necessary to install all units' terminating resistance to OPEN side.
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.

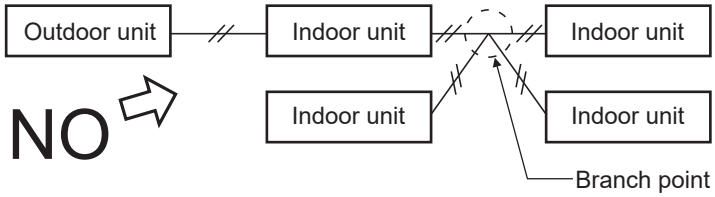


*** Outdoor unit is connected by 2-line connection.**

(2) Do not install the inter-unit control wiring in a way that forms a loop.



(3) Do not install inter-unit control wiring such as star branch wiring.
Star branch wiring causes mis-address setting.

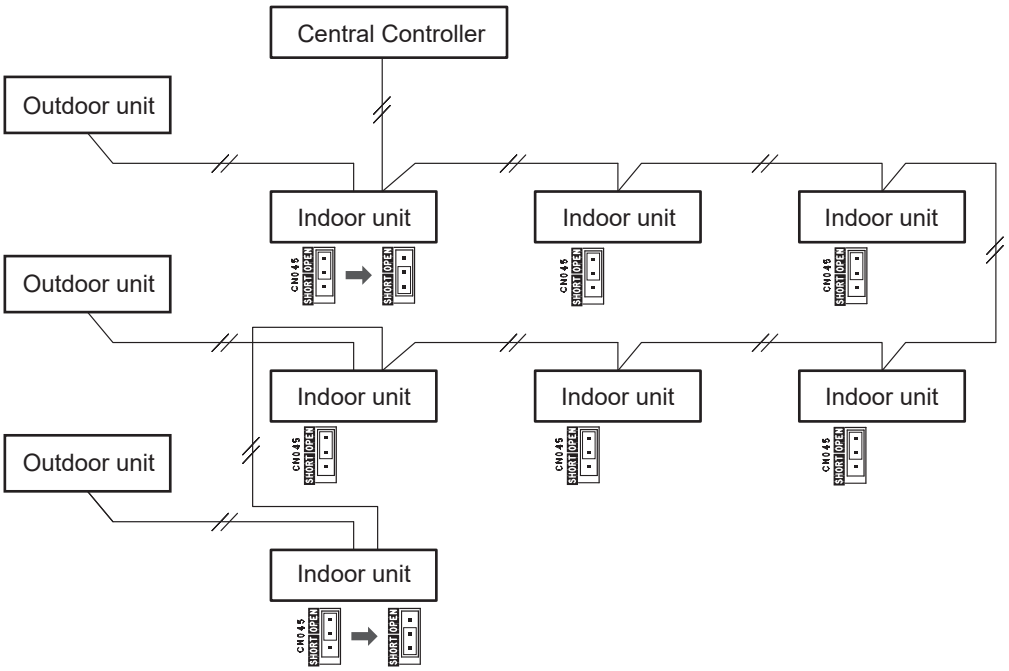


(4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer.

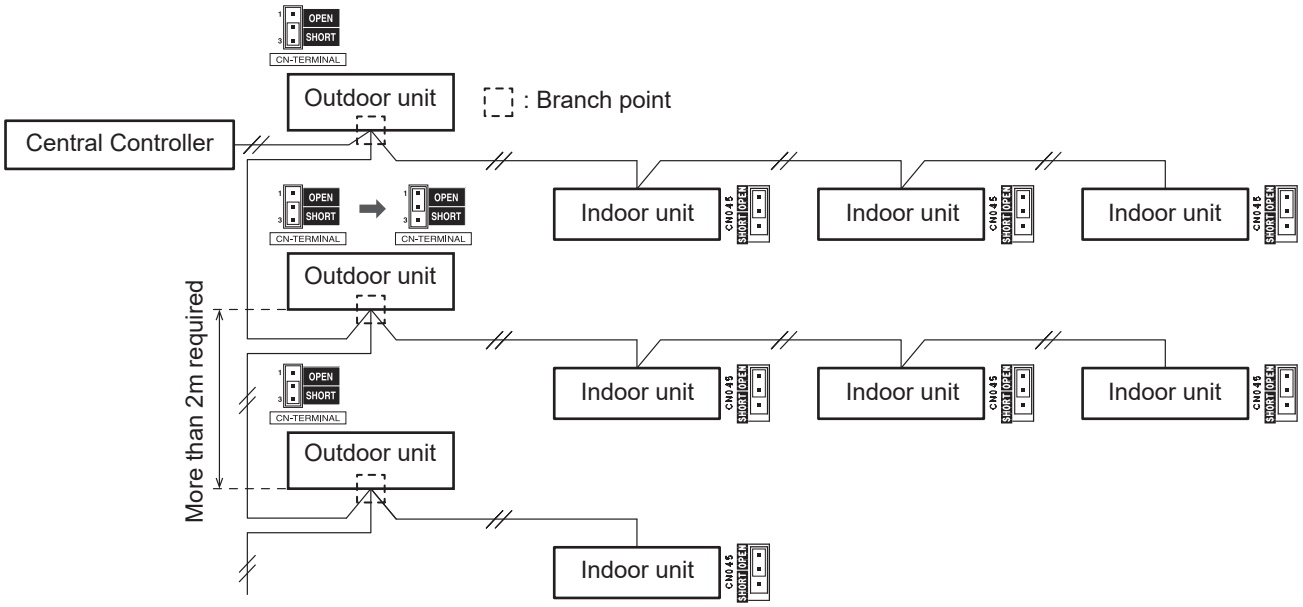
The setting of the terminating resistance changes according to the number of refrigerant systems connected to the integrated control wiring in the link.

- For one refrigerant system in the link wiring, it is necessary to set one terminating resistance to the valid (SHORT side). For over 2 refrigerant systems, it is necessary to set 2 terminating resistance to the valid (SHORT side).
- The valid or invalid setting of the terminating resistance is basically carried out with the outdoor unit. However, 3-line connection outdoor unit cannot make a setting of terminating resistance. In this case, the shortage of the valid setting for the terminating resistance should be carried out with the indoor unit. The setting of the terminating resistance of the 2-line outdoor unit at shipment is the valid (SHORT side) and outdoor unit is the invalid (OPEN side).

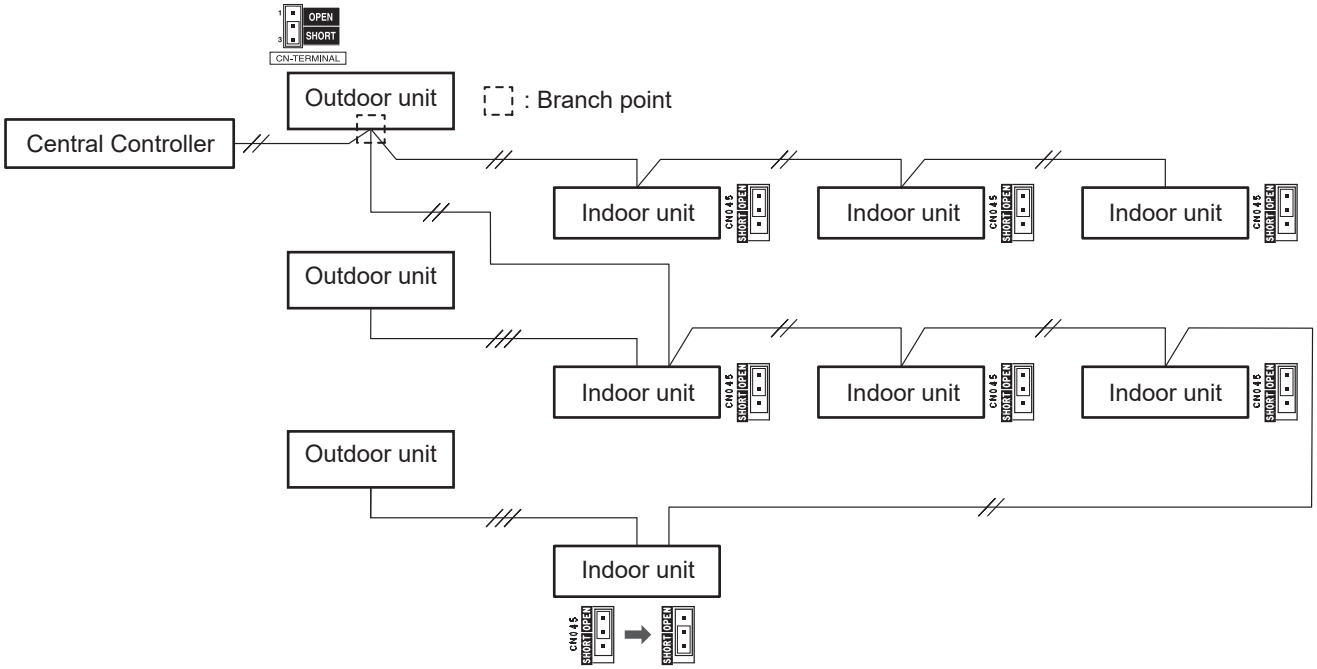
● In case that the inter-unit control wiring in the link are all 3-line connection:

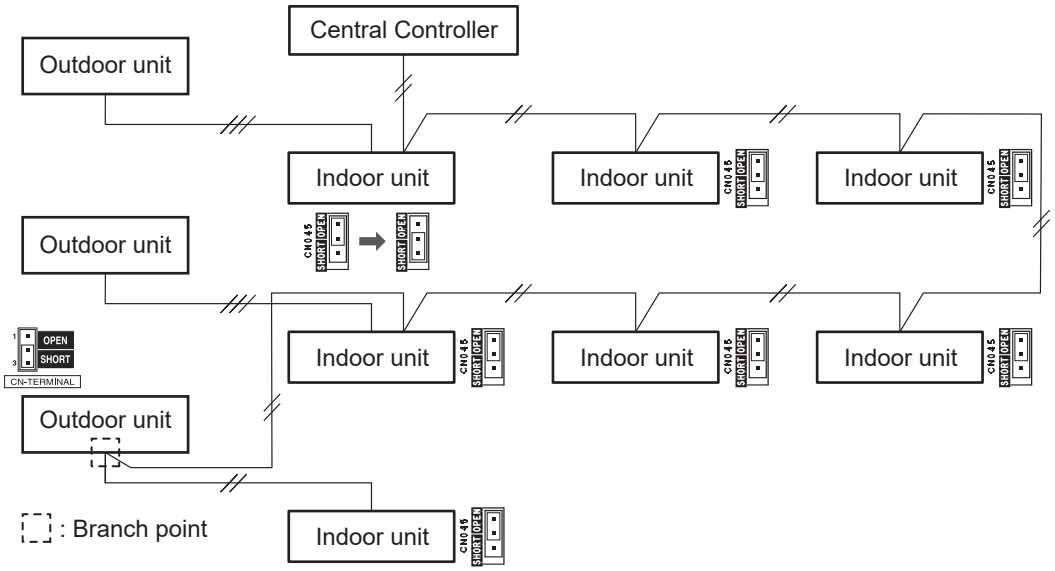


- In case that the inter-unit control wiring in the link are all 2-line connection only, or mixed with 2-line and 3-line connections:
  1) All refrigerant systems are 2-line connection:

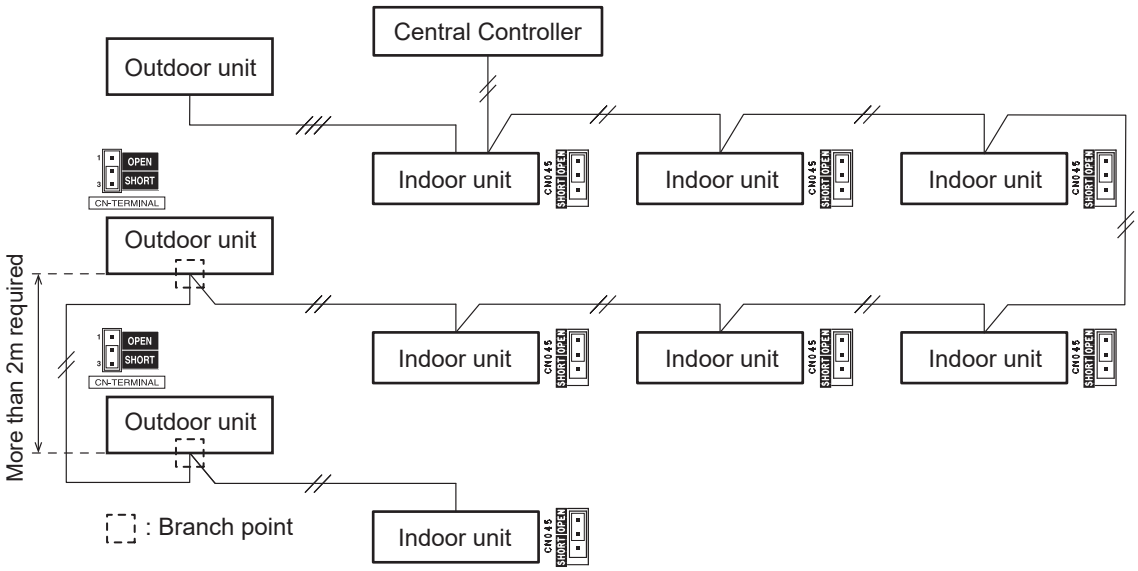


  2) Only one refrigerant system is 2-line connection and other refrigerant systems are 3-line connection:

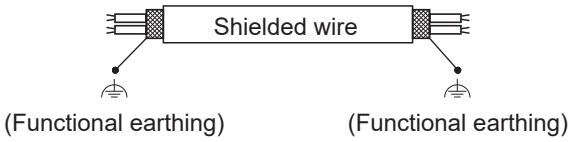




3) Only one refrigerant system is 3-line connection and other refrigerant systems are 2-line connection:



(5) Use shielded wires for inter-unit control wiring (C) and ground the shield on both sides, otherwise misoperation from noise may occur.
Connect wiring as shown in Section "■ Wiring System Diagrams" on page 1-10-1-4-3 to 1-10-1-4-5.



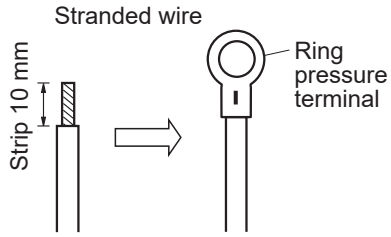
(6) • In the case of 3-line connection, connection cable between outdoor and indoor unit shall be approved polychloroprene sheathed flexible cord. Type designation 60245 IEC57 (H05RN-F, GP85PCP etc.) or heavier cord.
• Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conform to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (60245 IEC57, 60245 IEC66)

⚠ WARNING

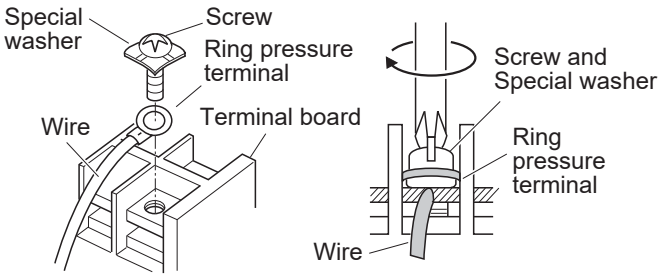
Loose wiring may cause the terminal to overheat or result in unit malfunction.
A fire hazard may also occur. Therefore, ensure that all wiring is tightly connected.
When connecting each power wire to the terminal, follow the instructions on "●How to connect wiring to the terminal" and fasten the wire securely with the terminal screw.

● How to connect wiring to the terminal
For stranded wiring

(1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends.

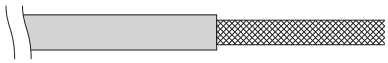


(2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal board.
(3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
(4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver.

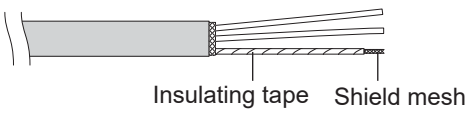


Examples of shield wires

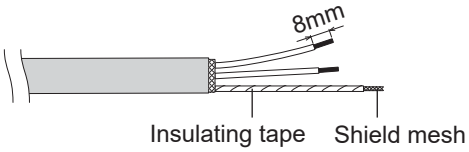
(1) Remove cable coat not to scratch braided shield.



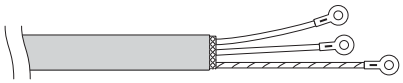
(2) Unbraid the braided shield carefully and twist the unbraided shield wires tightly together. Insulate the shiel wires by covering them with an insulation tube or wrapping insulating tape around them.



(3) Remove coat of signal wire.



(4) Attach ring pressure terminals to the signal wires and theshield wires insulated in Step (2).



1-10-1-5. 4-Way Cassette 60 × 60 Type S-25PY3E, S-36PY3E, S-50PY3E, S-60PY3E

■ **General Precautions on Wiring**

(1) Before wiring, confirm the rated voltage of the unit as shown on its nameplate, then carry out the wiring closely following the wiring diagram.

⚠ **WARNING**

(2) This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, it may cause electrical shock and fire in case of equipment breakdown or insulation breakdown.
The ELCB must be incorporated in the fixed wiring in accordance with the wiring regulations. The ELCB must be an approved circuit capacity, having a contact separation in all poles.
The ELCB or RCD suitable for use with inverters, resistant to high frequency noise, is most suitable. The ELCB's or RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.

(3) To prevent possible hazards from insulation failure, the unit must be grounded.

(4) Each wiring connection must be done in accordance with the wiring system diagram. Wrong wiring may cause the unit to misoperate or become damaged.

(5) Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.

(6) Unauthorized changes in the internal wiring can be very dangerous. The manufacturer will accept no responsibility for any damage or misoperation that occurs as a result of such unauthorized changes.

(7) Regulations on wire diameters differ from locality to locality. For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
You must ensure that installation complies with all relevant rules and regulations.

(8) To prevent malfunction of the air conditioner caused by electrical noise, care must be taken when wiring as follows:

- The remote control wiring and the inter-unit control wiring should be wired apart from the inter-unit power wiring.
- Use shielded wires for inter-unit control wiring between units and ground the shield on both sides.

⚠ **CAUTION**

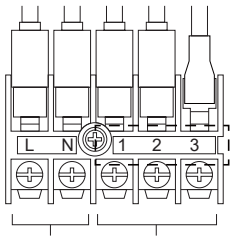
Check local electrical codes and regulations before wiring. Also, check any specified instruction or limitations.

■ Recommended Wire Length and Wire Diameter for Power Supply System

Check the type of the outdoor unit terminal board as illustrated below and make connection.

- **If 1, 2 and 3 are shown on the terminal board, it is for 3-line connection.**

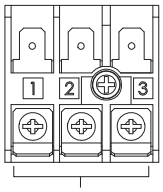
Single-phase / U-25~50PZ3E5
U-60~71PZ3E5A
U-36~60PZH3E5



Power supply cable

Connection cable between outdoor and indoor unit

Single-phase / U-100~140PZ3E5
U-71~140PZH3E5
3-phase / U-100~140PZ3E8
U-71~140PZH3E8



Connection cable between outdoor and indoor unit

Power supply cable

Type	(B) Power supply cable Min. 2.5 mm² *1	Time delay fuse or circuit capacity
Y3	Max. 130 m *2	15 A

Connection cable between outdoor and indoor unit

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-25~50PZ3E5, U-60PZ3E5A Min. 1.5 mm² *1	(G) Outdoor unit U-100, 125PZ3E5, U-100, 125PZ3E8 Min. 2.5 mm² *1
Y3	Max. 40 m *2	Max. 40 m *2

Type	Connection cable between outdoor and indoor unit	
	(F) Outdoor unit U-36 ~ 60PZH3E5 Min. 1.5 mm² *1	(G) Outdoor unit U-71 ~ 140PZH3E5, U-71 ~ 140PZH3E8 Min. 2.5 mm² *1
Y3	Max. 40 m *2	Max. 85 m *2

Control wiring

(C) Inter-unit (between Integrated control system and indoor units) control wiring	(D) Remote control wiring	(E) Remote control wiring for group control
Min. 0.75 mm² Use shielded wiring *3	Min. 0.75 mm²	Min. 0.75 mm²
Max. 1,000 m	(D) + (E) : Max. 500 m (E) : Max. 200 m The above descriptions can be used for the model CZ-RTC4, CZ-RTC5B and CZ-RTC6 Series. For other remote controllers, refer to the manual of each unit.	

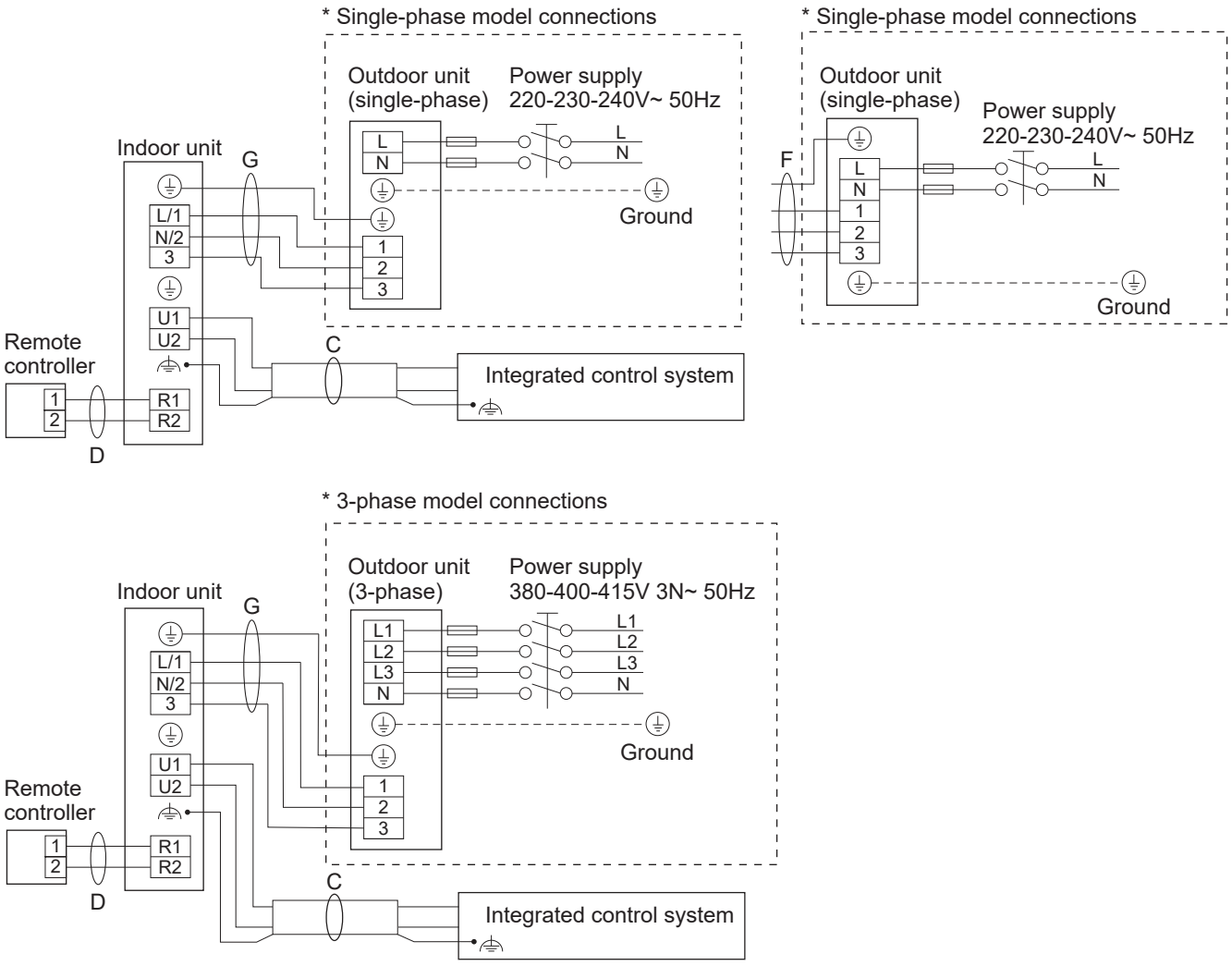
NOTE

*1 Maximum applicable wire for terminal board of indoor unit : 4 mm²
*2 This maximum length shows a 2% voltage drop.
*3 With ring-type wire terminal.

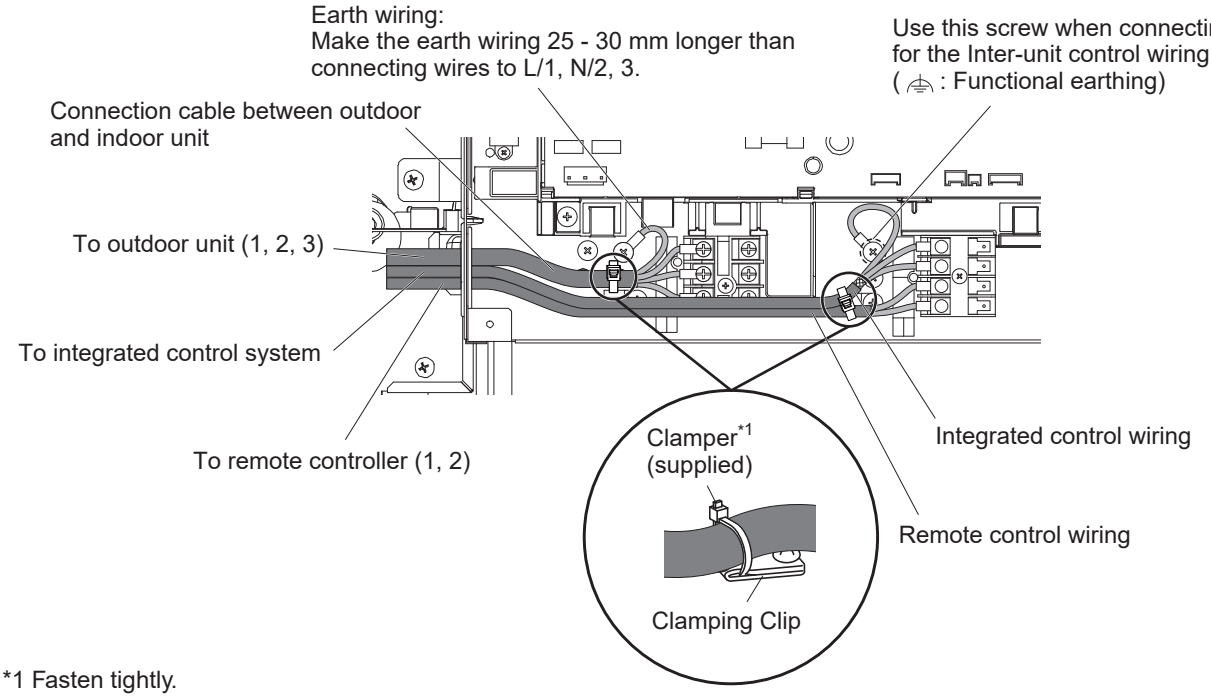
■ Wiring System Diagrams

● 3-LINE CONNECTION

Example : Single connection

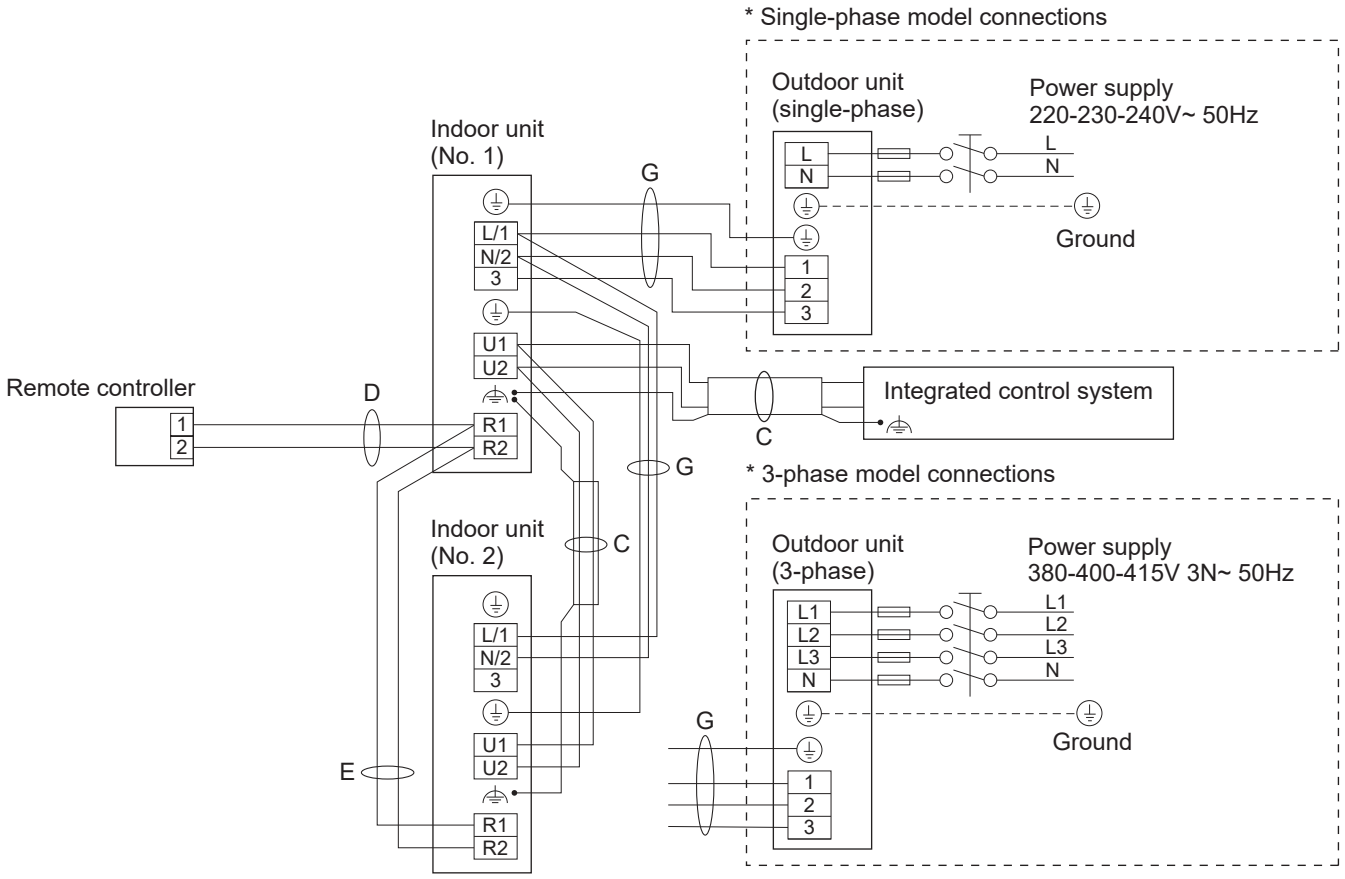


Indoor unit wiring sample

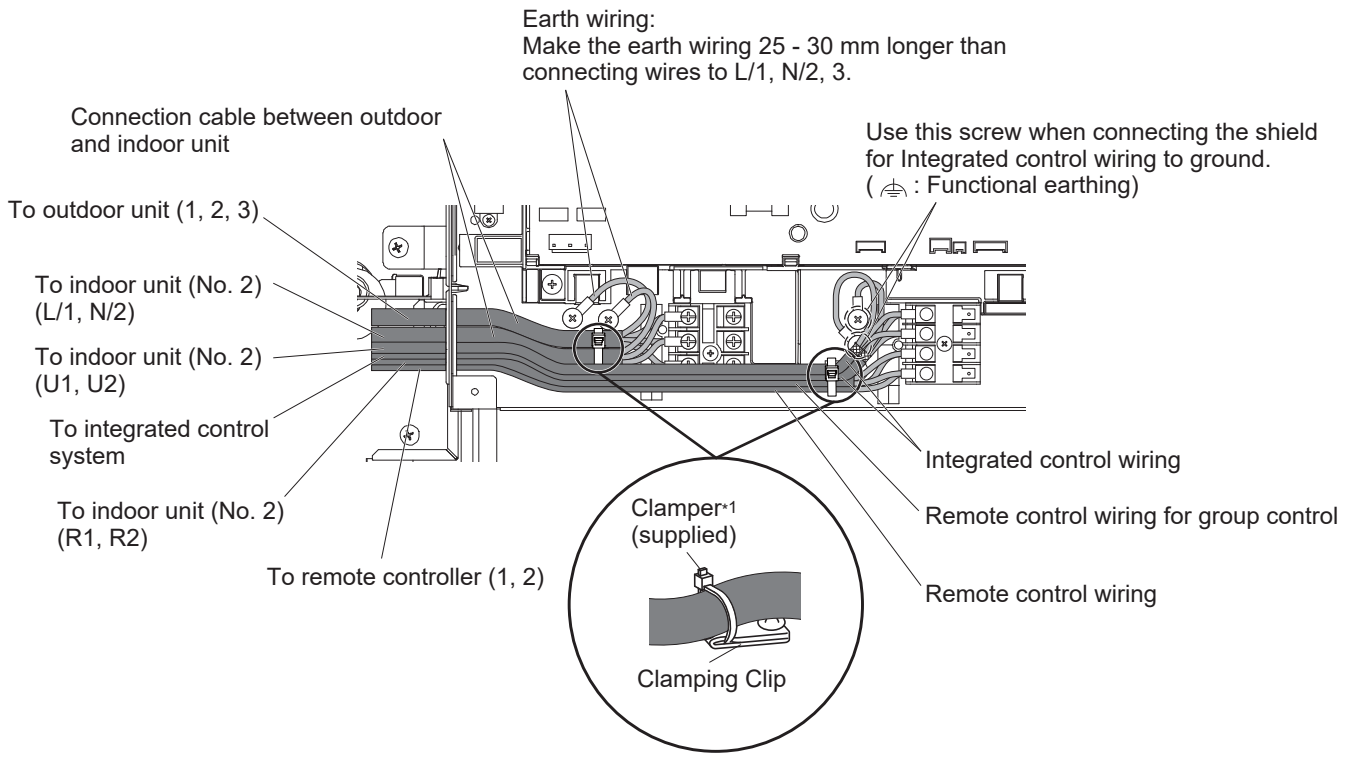


*1 Fasten tightly.

Example : Twin connection

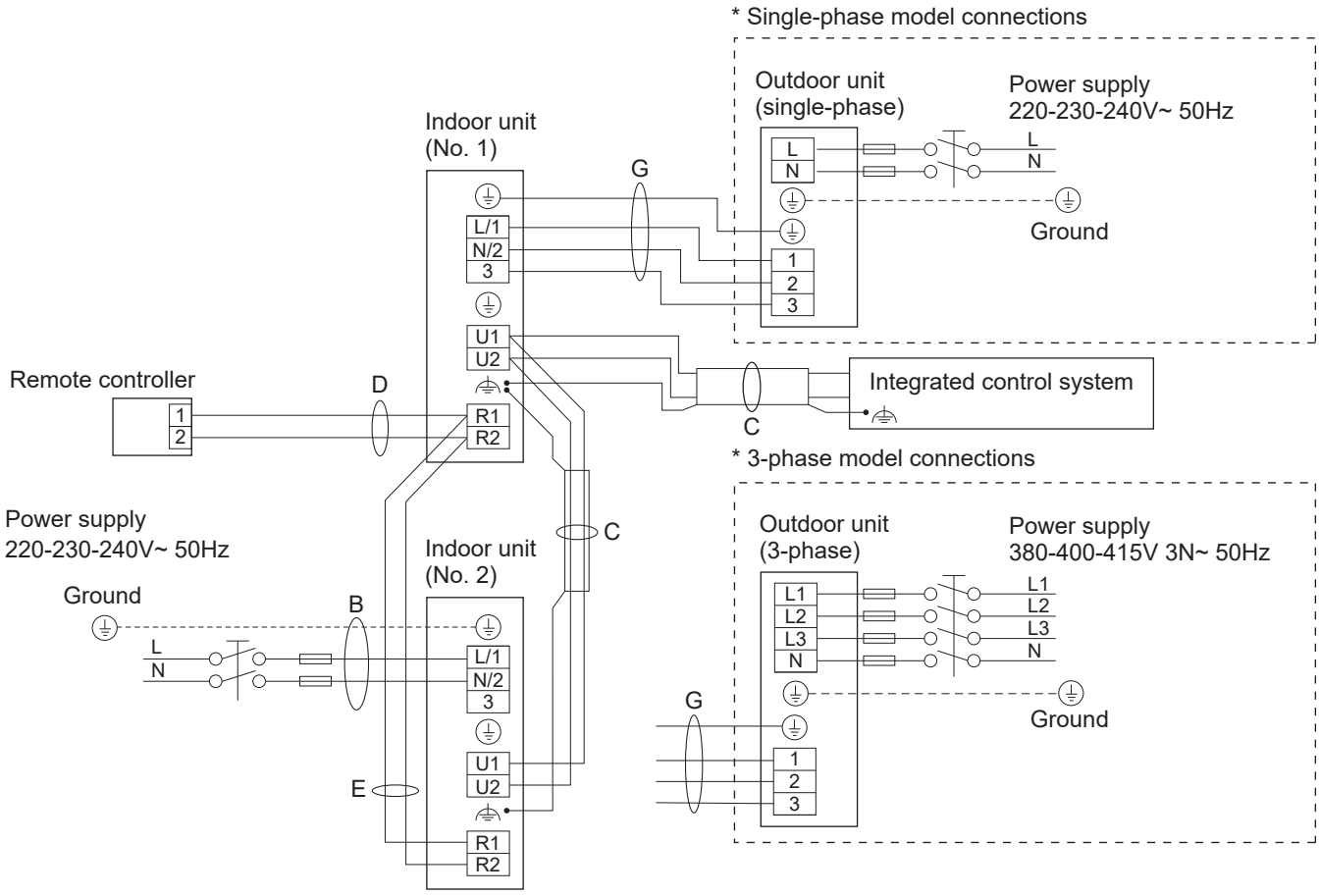


Indoor unit (No. 1) wiring sample

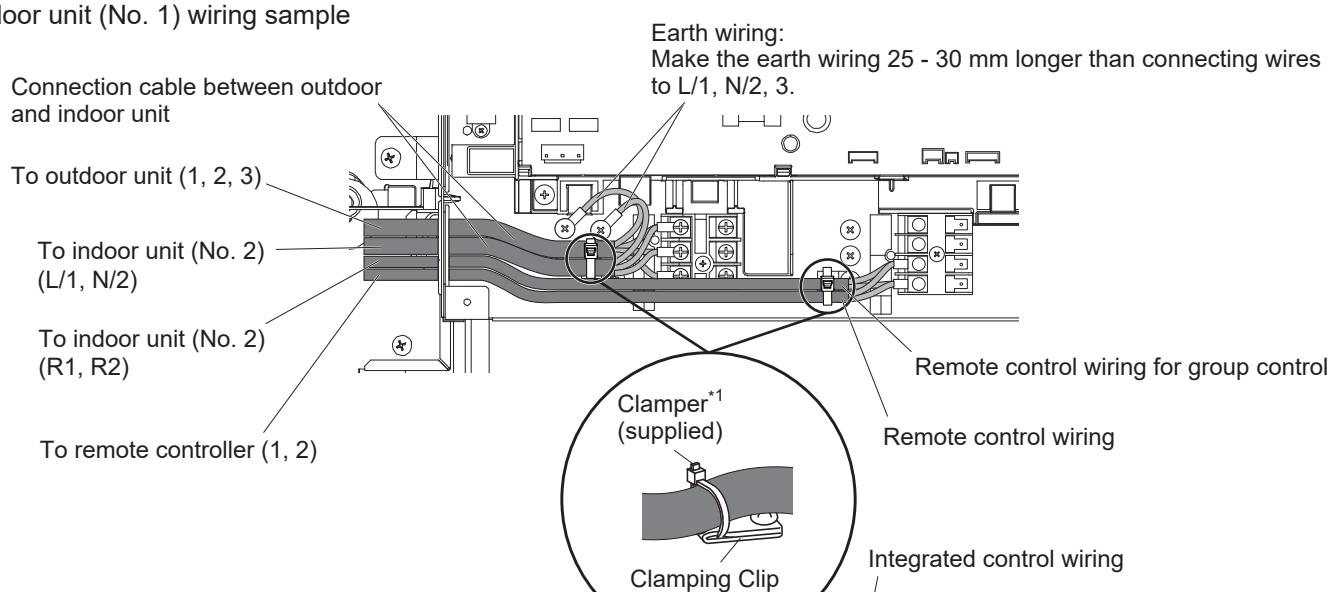


*1 Fasten tightly.

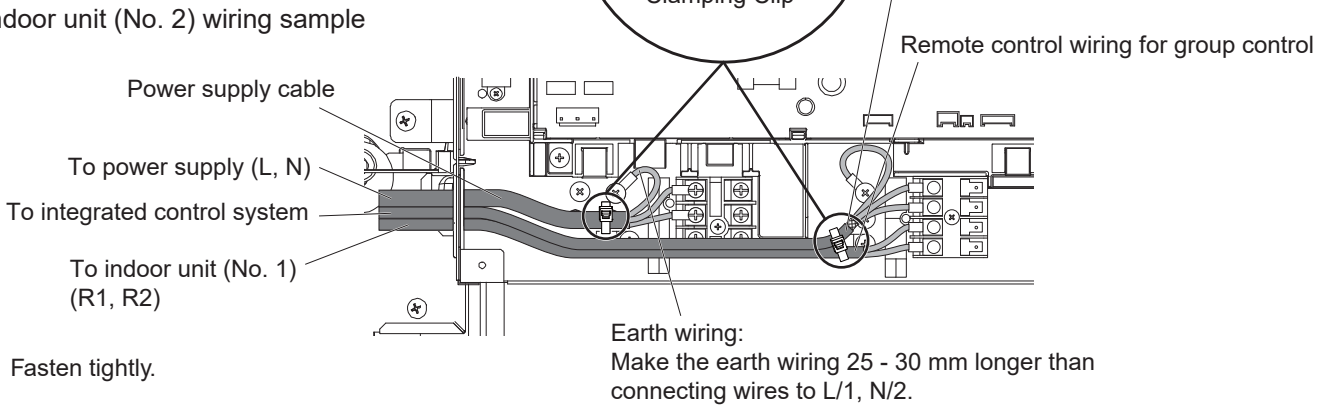
Example : Twin connection



Indoor unit (No. 1) wiring sample



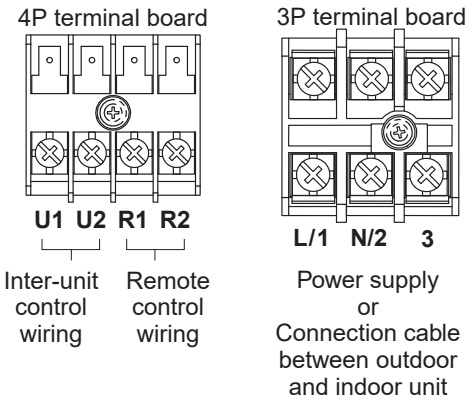
Indoor unit (No. 2) wiring sample



*1 Fasten tightly.

NOTE

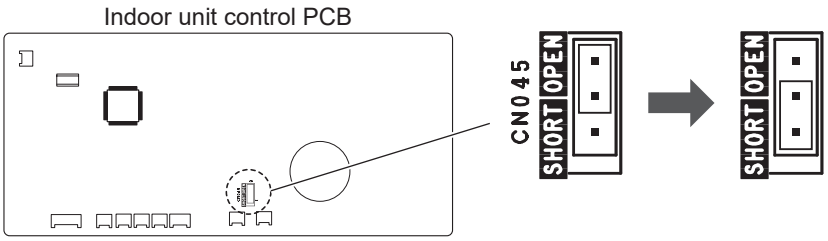
(1) See "■Recommended Wire Length and Wire Diameter for Power Supply System" on page 1-10-1-5-2 for the explanation of "B", "C", "D", "E", "F" and "G" under "■Wiring System Diagrams" on page 1-10-1-5-3 to 1-10-1-5-5.
(2) The basic connection diagram of the indoor unit shows the terminal boards, so the terminal boards in your equipment may differ from the diagram.
(3) Refrigerant Circuit address should be set before turning the power on.
(4) Regarding Refrigerant Circuit address setting, refer to the installation instructions supplied with the remote controller (Optional).
Auto address setting can be executed by remote controller automatically.



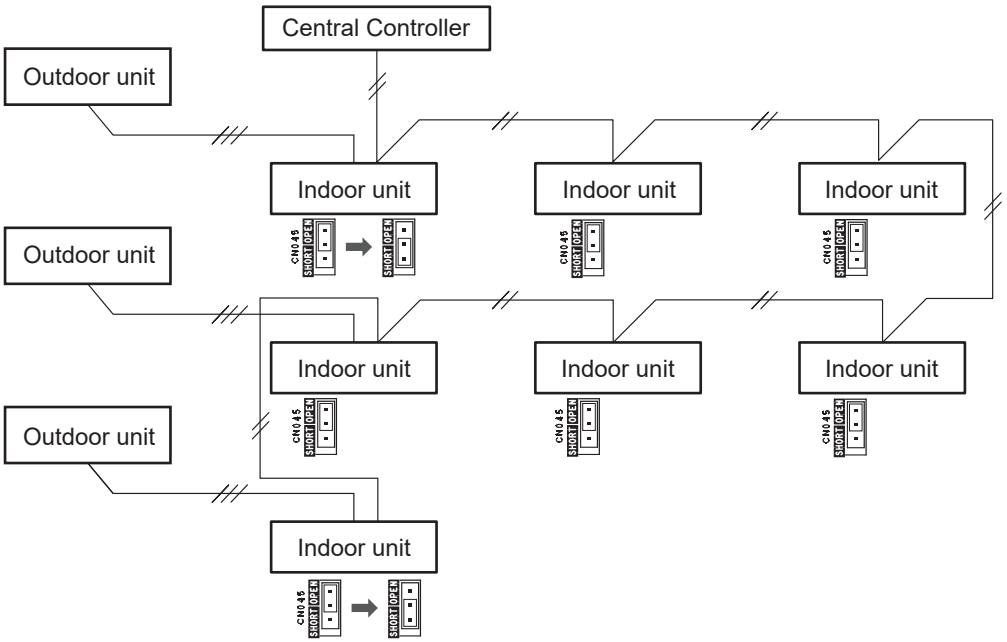
⚠ CAUTION

(1) When connecting to the integrated control system, the setting of the terminating resistance is required. Even more connection with the integrated control system is required, all indoor units in the link of 3-line connection should be connected with 2-line link wiring.

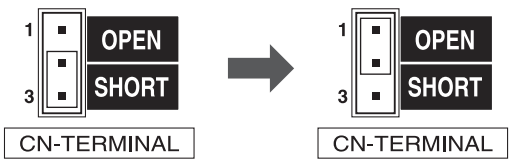
- **How to set the terminating resistance of the indoor unit**
  The setting of the terminating resistance should be made by CN045 on the indoor unit control PCB.
  The setting of indoor unit terminating resistance at shipment is OPEN side. If the shorting socket is moved as shown below, the terminating resistance is SHORT side (operative).
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.



- **In case that the inter-unit control wiring in the link are all 3-line connection:**

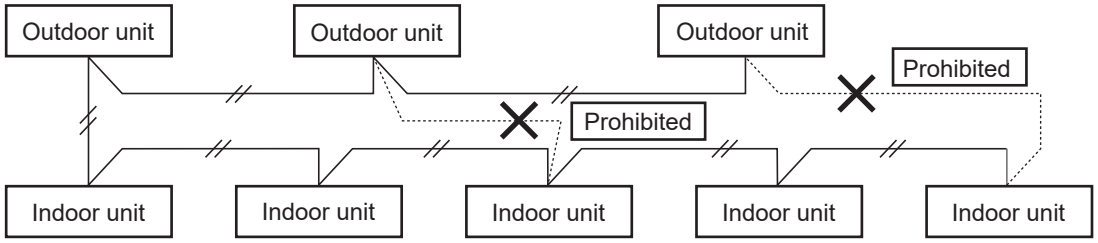


- **In case that the inter-unit control wiring in the link are mixed with 3-line and 2-line connections:**
  Set the terminating resistance with the TERMINAL pin (CN-TERMINAL) on the *outdoor unit control PCB.
  The setting of the outdoor unit terminating resistance at shipment is SHORT side (operative). Leave one unit in short circuit among outdoor units in the link.
  Change to OPEN for other units. It is not necessary to install all units' terminating resistance to OPEN side.
  It is not necessary to install all units' terminating resistance. Follow the steps on the next page which unit's terminating resistance to install.

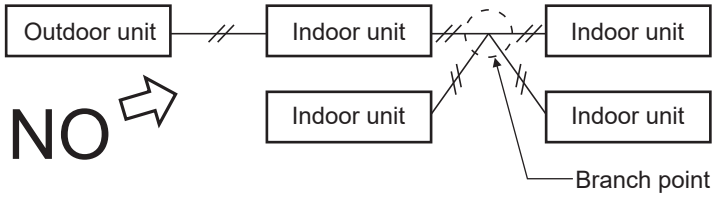


*** Outdoor unit is connected by 2-line connection.**

(2) Do not install the inter-unit control wiring in a way that forms a loop.



(3) Do not install inter-unit control wiring such as star branch wiring.
Star branch wiring causes mis-address setting.

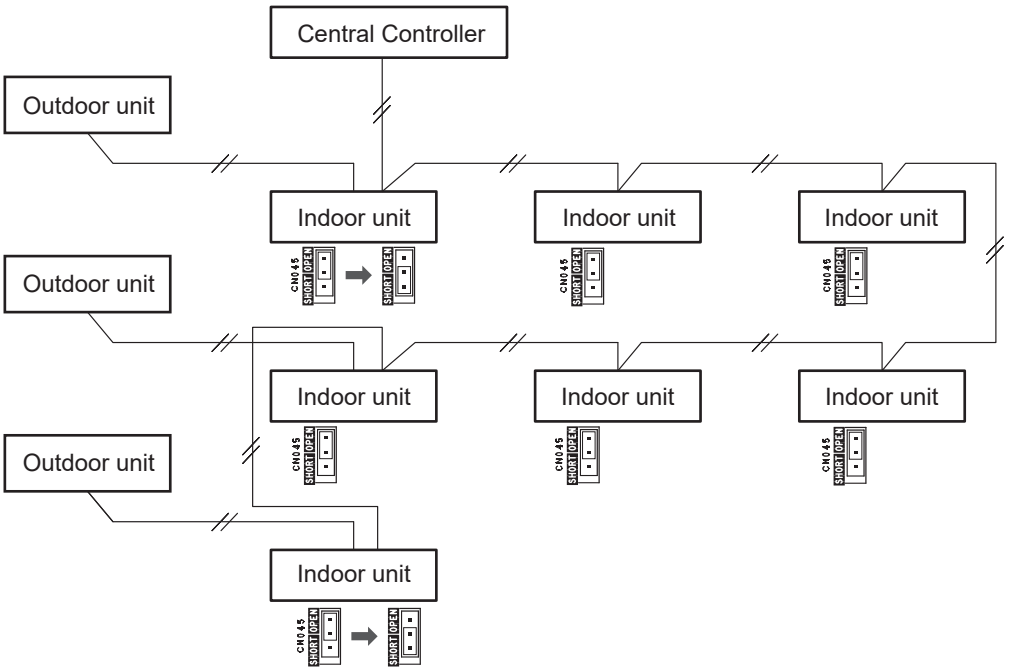


(4) If branching the inter-unit control wiring, the number of branch points should be 16 or fewer.

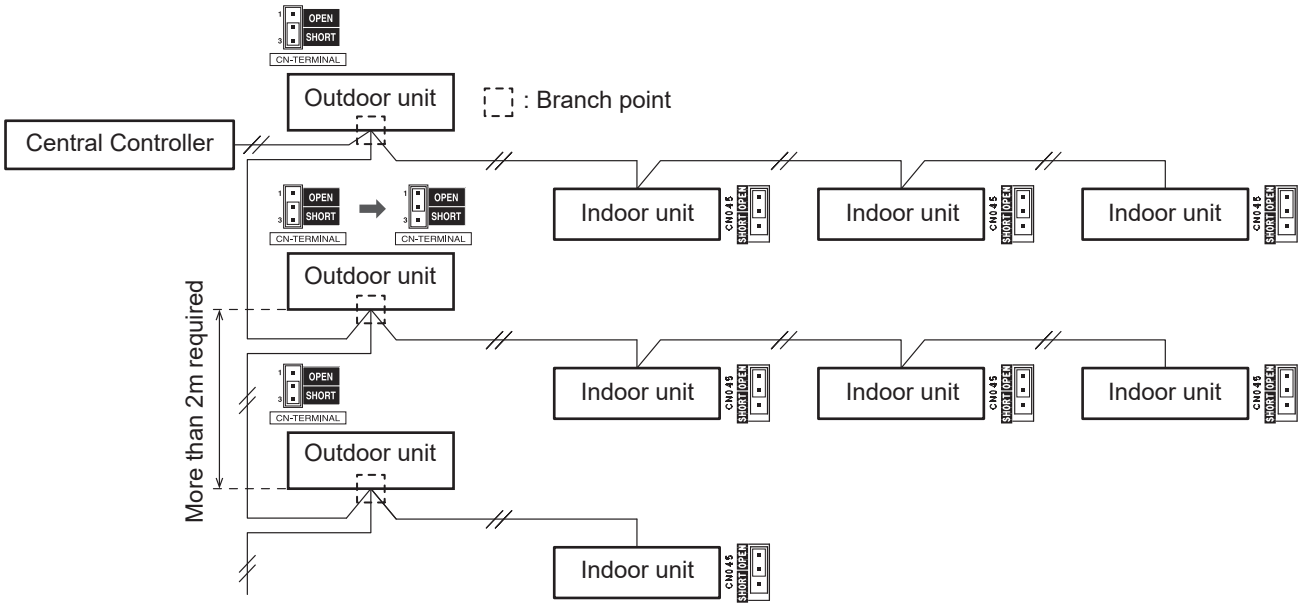
The setting of the terminating resistance changes according to the number of refrigerant systems connected to the integrated control wiring in the link.

- For one refrigerant system in the link wiring, it is necessary to set one terminating resistance to the valid (SHORT side). For over 2 refrigerant systems, it is necessary to set 2 terminating resistance to the valid (SHORT side).
- The valid or invalid setting of the terminating resistance is basically carried out with the outdoor unit. However, 3-line connection outdoor unit cannot make a setting of terminating resistance. In this case, the shortage of the valid setting for the terminating resistance should be carried out with the indoor unit. The setting of the terminating resistance of the 2-line outdoor unit at shipment is the valid (SHORT side) and outdoor unit is the invalid (OPEN side).

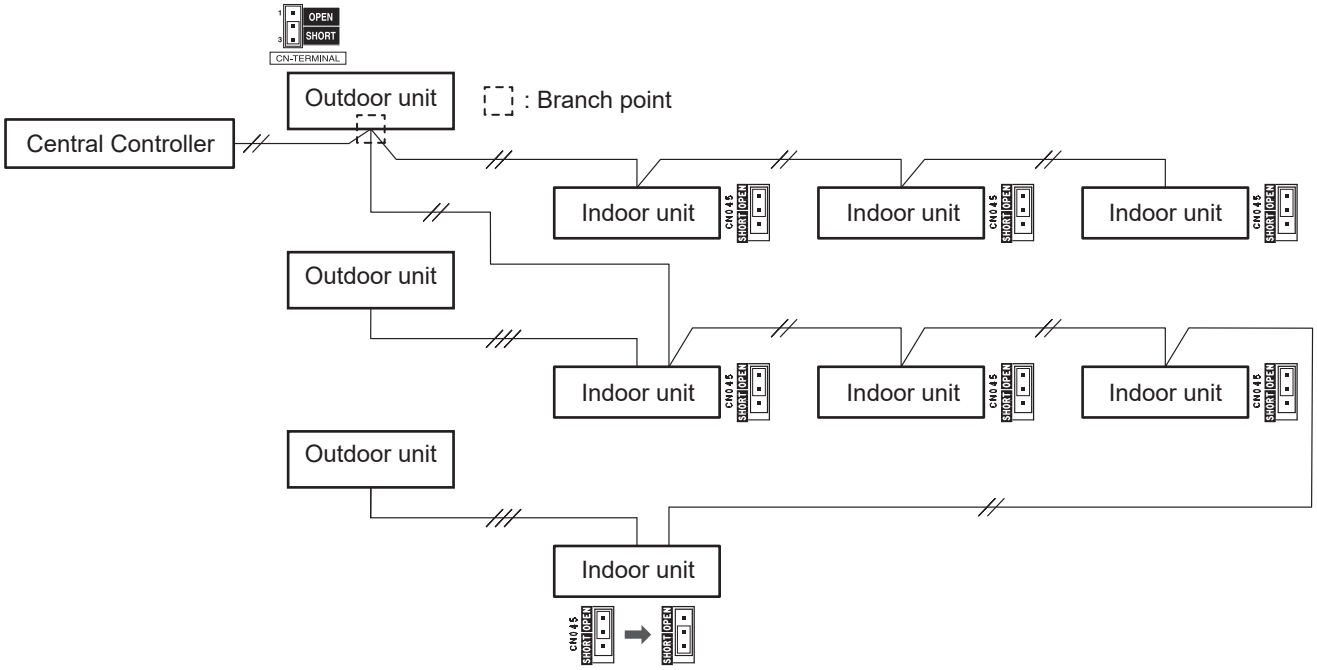
● In case that the inter-unit control wiring in the link are all 3-line connection:

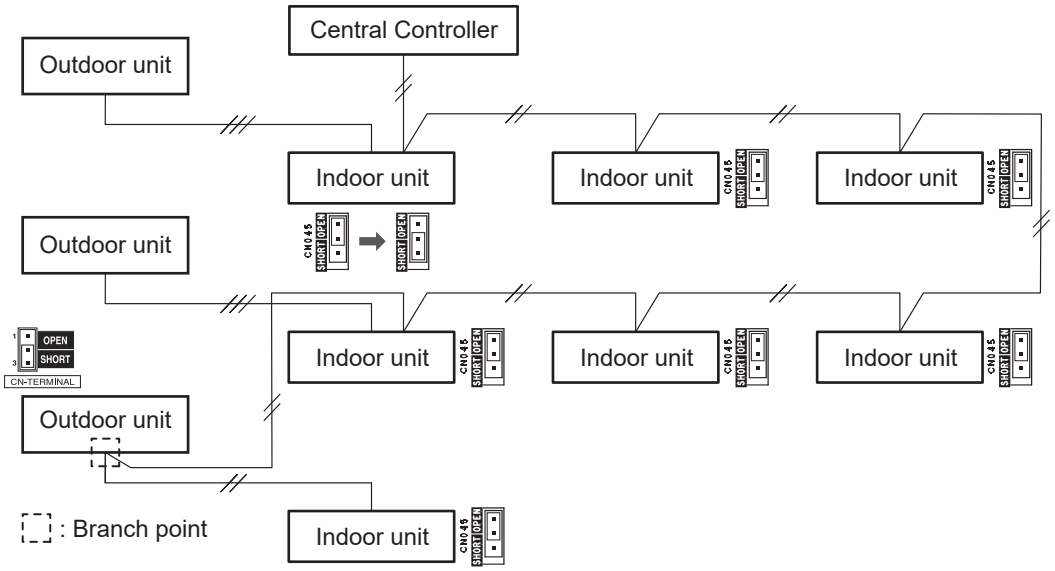


- In case that the inter-unit control wiring in the link are all 2-line connection only, or mixed with 2-line and 3-line connections:
  1) All refrigerant systems are 2-line connection:

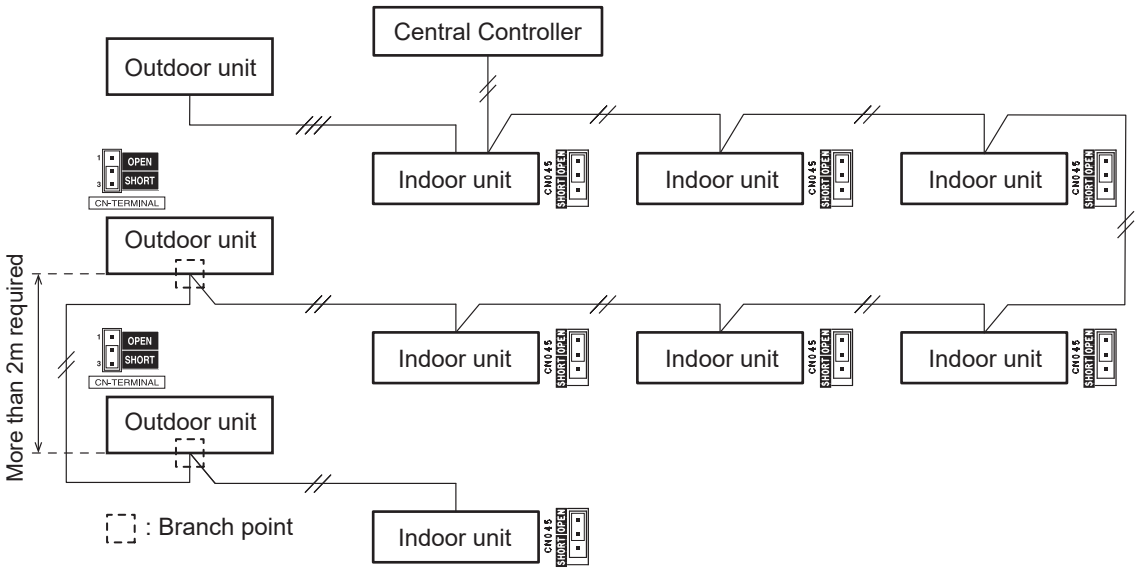


  2) Only one refrigerant system is 2-line connection and other refrigerant systems are 3-line connection:

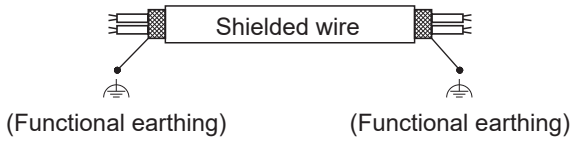




3) Only one refrigerant system is 3-line connection and other refrigerant systems are 2-line connection:



(5) Use shielded wires for inter-unit control wiring (C) and ground the shield on both sides, otherwise misoperation from noise may occur.
Connect wiring as shown in Section "■ Wiring System Diagrams" on page 1-10-1-5-3 to 1-10-1-5-5.



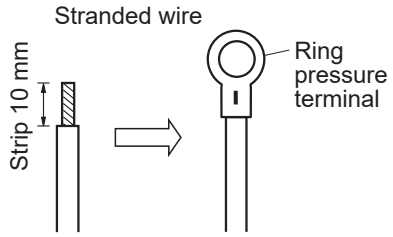
(6) • In the case of 3-line connection, connection cable between outdoor and indoor unit shall be approved polychloroprene sheathed flexible cord. Type designation 60245 IEC57 (H05RN-F, GP85PCP etc.) or heavier cord.
• Use the standard power supply cables for Europe (such as H05RN-F or H07RN-F which conform to CENELEC (HAR) rating specifications) or use the cables based on IEC standard. (60245 IEC57, 60245 IEC66)

⚠ WARNING

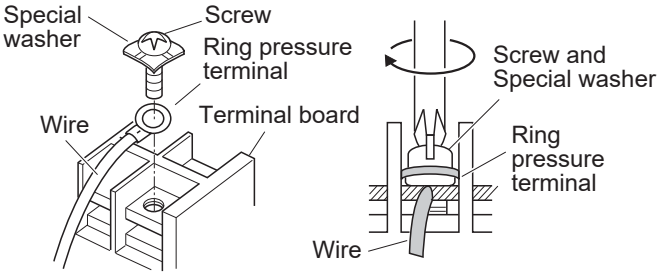
Loose wiring may cause the terminal to overheat or result in unit malfunction.
A fire hazard may also occur. Therefore, ensure that all wiring is tightly connected.
When connecting each power wire to the terminal, follow the instructions on "●How to connect wiring to the terminal" and fasten the wire securely with the terminal screw.

● How to connect wiring to the terminal
For stranded wiring

(1) Cut the wire end with cutting pliers, then strip the insulation to expose the stranded wiring about 10 mm and tightly twist the wire ends.

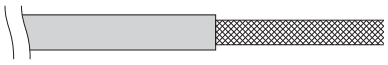


(2) Using a Phillips head screwdriver, remove the terminal screw(s) on the terminal board.
(3) Using a ring connector fastener or pliers, securely clamp each stripped wire end with a ring pressure terminal.
(4) Place the ring pressure terminal, and replace and tighten the removed terminal screw using a screwdriver.

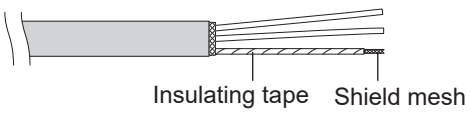


Examples of shield wires

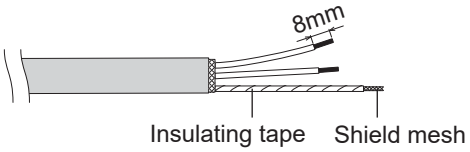
(1) Remove cable coat not to scratch braided shield.



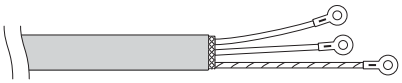
(2) Unbraid the braided shield carefully and twist the unbraided shield wires tightly together. Insulate the shiel wires by covering them with an insulation tube or wrapping insulating tape around them.



(3) Remove coat of signal wire.



(4) Attach ring pressure terminals to the signal wires and theshield wires insulated in Step (2).

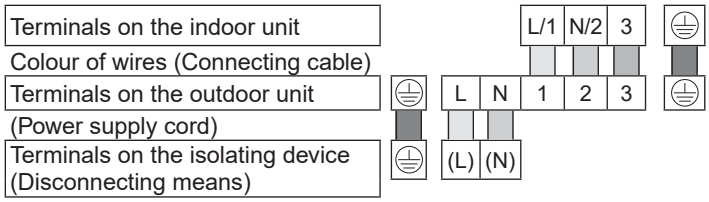


1-10-2. Outdoor Unit

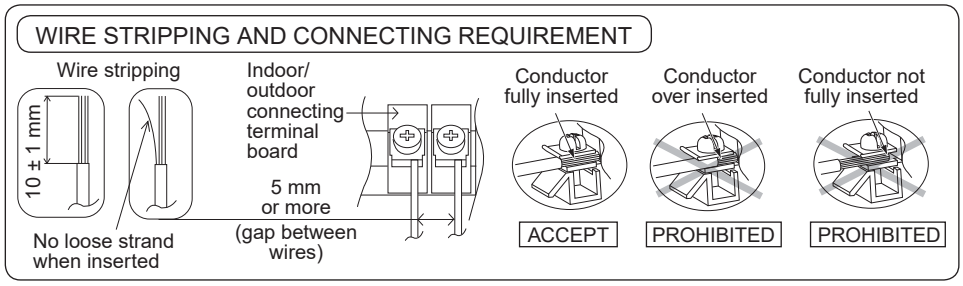
1-10-2-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

⚠ Warning	This air conditioner must be installed in accordance with national wiring regulations.
	Cables connected to outdoor unit must be approved polychloroprene sheathed type 60245 IEC 57 or H05RN-F/H07RN-F or heavier.
	The units must be connected to the supply cables for fixed wiring by qualified technician. Circuit breaker must be incorporated in the fixed wiring in accordance with the national wiring regulations. The circuit breaker must be approved, suitable for the voltage and current ratings of equipment and have a contact separation by 3mm in all poles. When the supply cable is damaged, it must be replaced by qualified technician.
	Be sure to install a current leakage breaker, main switch and fuse to the main power supply, otherwise electric shocks may result.
	Be sure to connect the unit to secure earth connection. If the earthing work is not carried out properly, electric shocks may result. Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires for safety reason.
	Wiring shall be connected securely by using specified cables and fix them securely so that external force of the cables may not transfer to the terminal connection section. Imperfect connection and fixing leads to fire, etc.

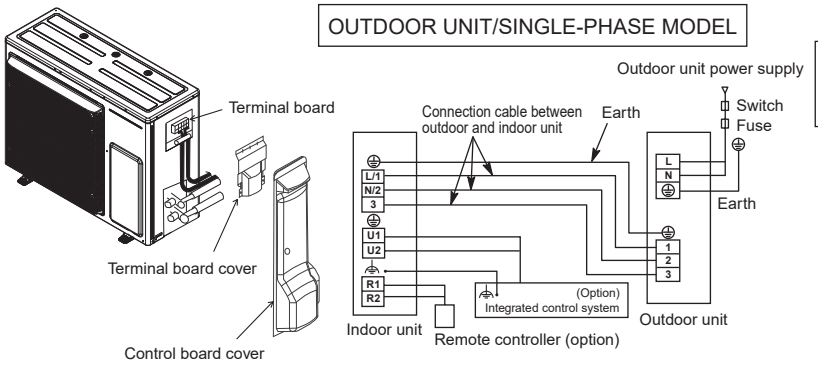
1. Remove the control board cover and terminal board cover from the unit by loosening the screw.
2. Ensure to connect the electrical cable connections and clamp the wires securely to the terminal connections using cord clamps so that no undue force is placed on the wires (power source cable, connection cable between indoor and outdoor unit, earth lead wire).
3. Connect the power supply cord and connecting cable between indoor unit and outdoor unit according to the diagram below.

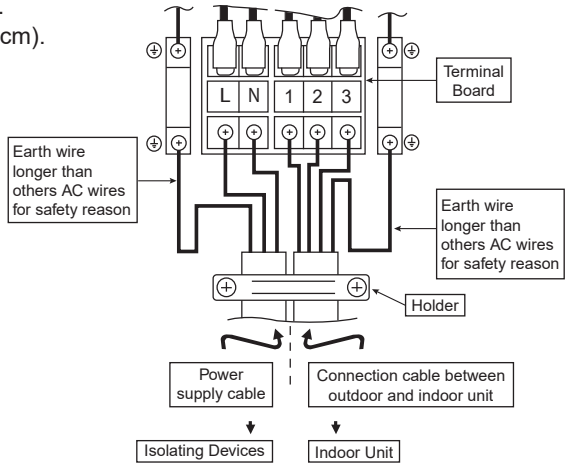


4. For wire stripping and connection requirement, refer diagram below.



5. Do not install a phase advance capacitor for power factor improvement.
   (It does not improve the power factor and will cause abnormal overheating.)
6. Do not bind the excess cables together and place them inside this unit.
7. Make sure that terminal board cover and control board cover mount correctly.
8. Use the appropriate screwdriver for tightening the terminal screws. Small sized screwdriver damages the head of the screw and cannot tighten it properly.
9. There is risk of damaging the screw if the terminal screw is over tightened.
   Tighten with the appropriate torque 1.57N•m ~ 1.96N•m (16kgf•cm~20kgf•cm).





: functional earthing (for the shielded cable)

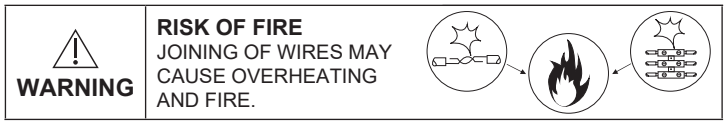
Outdoor unit

Model	Power supply cable	Min. wire size (mm^2)	Time delay fuse or circuit capacity (A)
U-25PZ3E5	220-230-240V ~	2.5	15
U-36PZ3E5	220-230-240V ~	2.5	15
U-50PZ3E5	220-230-240V ~	2.5	15
U-60PZ3E5A	220-230-240V ~	2.5	20
U-71PZ3E5A	220-230-240V ~	2.5	20

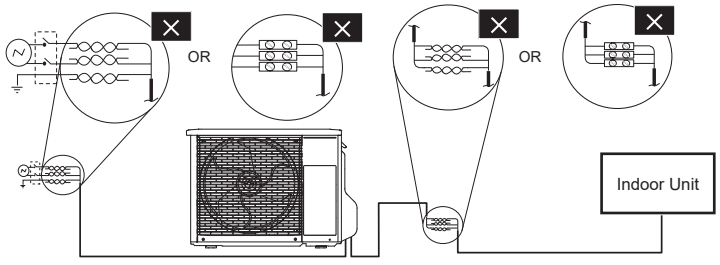
Control wiring

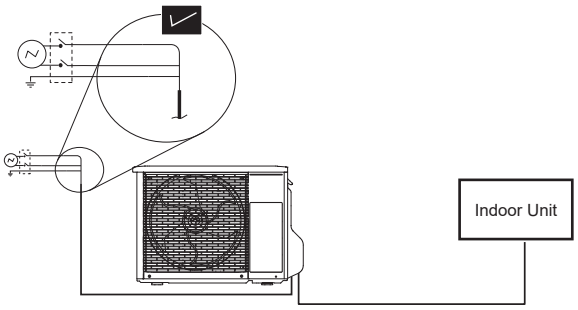
Type	Connection cable between outdoor and indoor unit	
	Outdoor unit	Max. length
1.5 mm^2	U-25PZ3E5 U-36PZ3E5 U-50PZ3E5 U-60PZ3E5A U-71PZ3E5A	40 m

- See "■ Recommended Wire Length and Wire Diameter for Power Supply System" under 1-10-1. Electrical Wiring of indoor unit.
- The product meets the technical requirements of EN/IEC 61000-3-3.
- Decide the length and size of the power supply cable based on the maximum ampere tabulated above in accordance with the national wiring regulations.
- Recommended maximum length indicates the value calculated with the 2% voltage drop of cable.
- Select the fuse(s) and/or circuit breaker(s) from the types and ratings suitable for the maximum ampere tabulated above in accordance with the national wiring regulations.
- An RCD suitable for use with inverters, resistant to high frequency noise, is most suitable. RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.
- If capacity of power supply circuit and enforcement are not enough, it can causes the electric shock and a fire.



Do not joint wires.





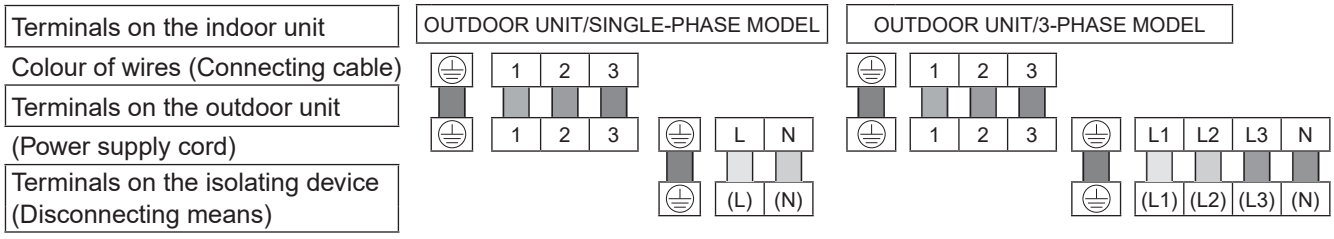
Use complete wire without joining.

Wire connection in this area must follow to national wiring rules.

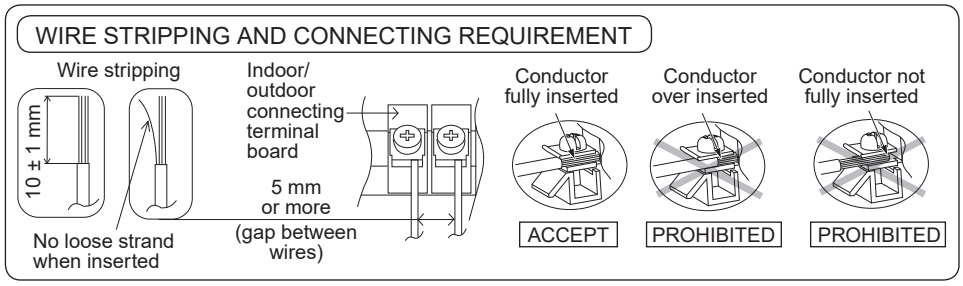
1-10-2-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

⚠ Warning	This air conditioner must be installed in accordance with national wiring regulations.
	Cables connected to outdoor unit must be approved polychloroprene sheathed type 60245 IEC 57 or H05RN-F/H07RN-F or heavier.
	The units must be connected to the supply cables for fixed wiring by qualified technician. Circuit breaker must be incorporated in the fixed wiring in accordance with the national wiring regulations. The circuit breaker must be approved, suitable for the voltage and current ratings of equipment and have a contact separation by 3mm in all poles. When the supply cable is damaged, it must be replaced by qualified technician.
	Be sure to install a current leakage breaker, main switch and fuse to the main power supply, otherwise electric shocks may result.
	Be sure to connect the unit to secure earth connection. If the earthing work is not carried out properly, electric shocks may result. ⏚
	Wiring shall be connected securely by using specified cables and fix them securely so that external force of the cables may not transfer to the terminal connection section. Imperfect connection and fixing leads to fire, etc.

1. Remove the service panel from the unit by loosening the screw.
2. Ensure to connect the electrical cable connections and clamp the wires securely to the terminal connections using cord clamps so that no undue force is placed on the wires (power source cable, connection cable between indoor and outdoor unit, earth lead wire).
3. Connect the power supply cord and connecting cable between indoor unit and outdoor unit according to the diagram below.



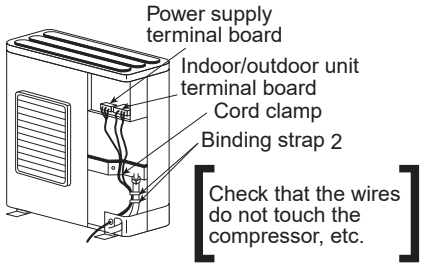
4. For wire stripping and connection requirement, refer diagram below.



5. Do not install a phase advance capacitor for power factor improvement. (It does not improve the power factor and will cause abnormal overheating.)
6. Do not bind the excess cables together and place them inside this unit.
7. Once all wiring work has been completed, tie the cables with the provided binding strap so that they do not touch the compressor and the pipes.
8. Attach the service panel back to the original position with screw.
   - Protect the electrical cable with the protective bushing provided so that the cables do not get damaged on the knock hole or etched portions. If there is space between the electrical cables and the protective bushing occurs, seal it accordingly.
   - The equipment shall be connected to a suitable mains network with a main impedance less than the valve indicated in the table of power supply specifications.
   - Be sure to connect the wires correctly to terminal board with connecting the crimp type ring terminal to the wires.
   - When setting up the cables, inside of unit must be installed properly so that the front panel will not lift up. Make sure that front panel mount correctly.
9. The binding screws inside the power supply box may become loosened due to vibration during transportation, so check that they are tightened securely.

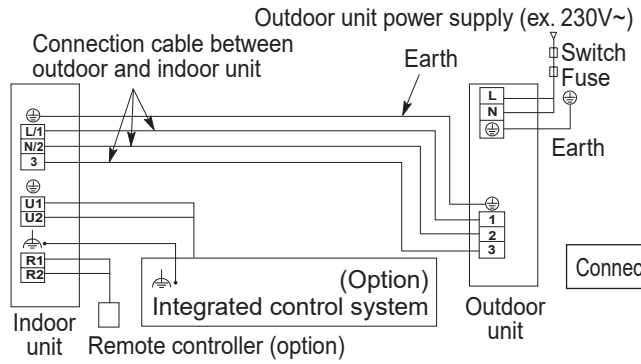
Screw diameter name	Tightening torque N•m (kgf•cm)
M4	1.57 ~ 1.96 (16 ~ 20)
M5	1.96 ~ 2.45 (20 ~ 25)

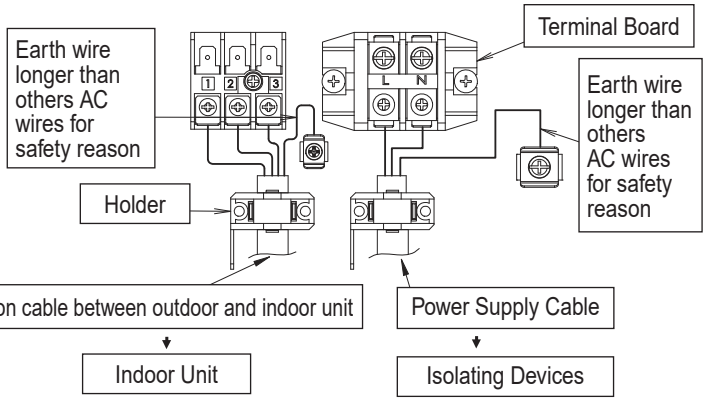
10. Tighten the binding screws to the specified torque while referring to the table above.
11. Use the appropriate screwdriver for tightening the terminal screws. Small sized screwdriver damages the head of the screw and cannot tighten it properly.
12. There is risk of damaging the screw if the terminal screw is over tightened.



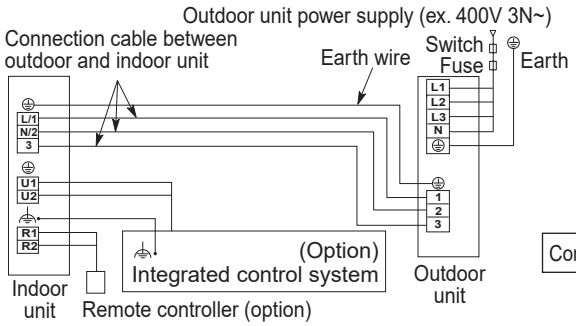
Single connection

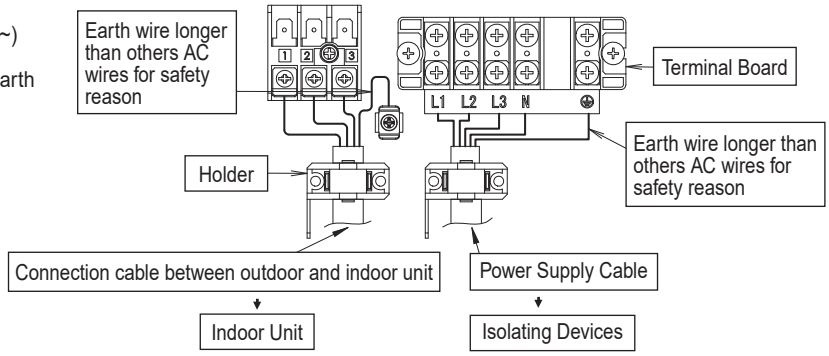
Single-phase model connections





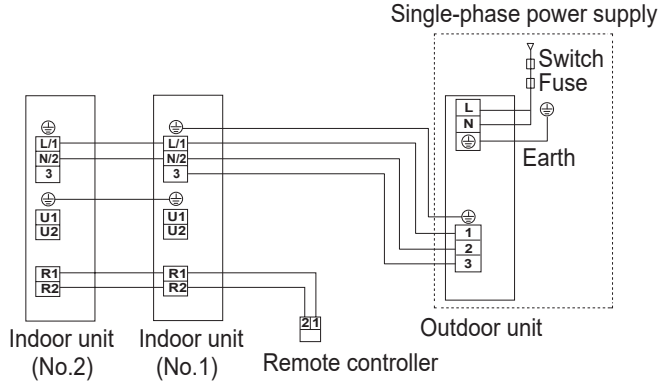
3-phase model connections



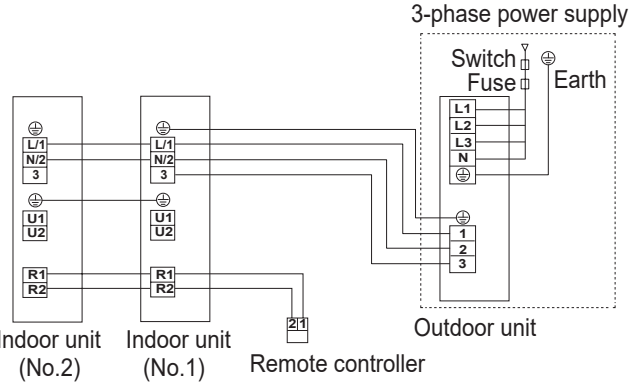


Twin connection

Single-phase model connections



3-phase model connections



This equipment complies with EN/IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to ※1 kVA at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power Ssc greater than or equal to ※1 kVA.

Ssc : Short circuit power

: functional earthing (for the shielded cable)

Outdoor unit

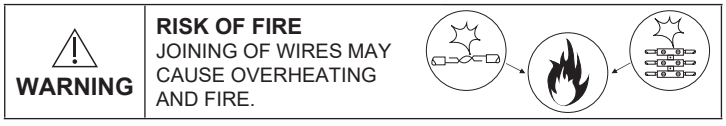
Model	Power supply cable								Time delay fuse or circuit capacity (A)	※1 Ssc
	Power supply	Min. wire size (mm^2)	Recommended Wire Length and Wire Diameter for Power Supply Cable							
			Wire size (mm^2)	Max. length (m)	Wire size (mm^2)	Max. length (m)	Wire size (mm^2)	Max. length (m)		
U-100PZ3E5	220-230-240V~	6.0	-	-	-	-	6.0	22	35	5150kVA
U-125PZ3E5	220-230-240V~	6.0	-	-	-	-	6.0	19	40	6100kVA
U-140PZ3E5	220-230-240V~	6.0	-	-	-	-	6.0	18	40	6250kVA
U-100PZ3E8	380-400-415V 3N~	2.5	2.5	21	4.0	34	6.0	51	15	※2
U-125PZ3E8	380-400-415V 3N~	2.5	2.5	20	4.0	31	6.0	47	20	※2
U-140PZ3E8	380-400-415V 3N~	2.5	2.5	19	4.0	30	6.0	46	20	※2

※2 Intended for professional use. Permission from the power supplier is required when installing the U-100PZ3E8, U-125PZ3E8, U-140PZ3E8 outdoor units that are connected to a 16 A distribution network.

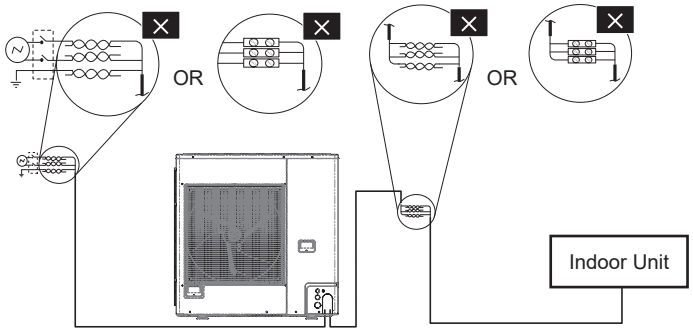
Control wiring

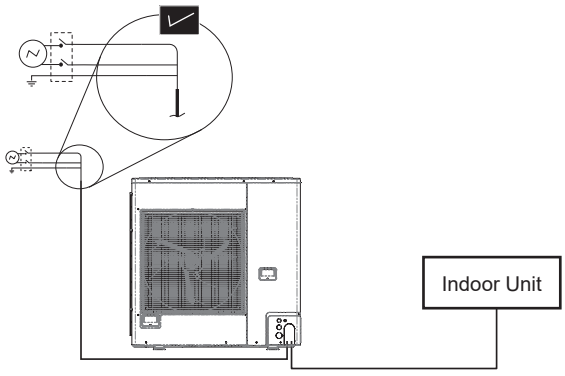
Type	Connection cable between outdoor and indoor unit	
	Outdoor unit	Max. length
2.5 mm^2	U-100 ~ U-140PZ3E5 U-100 ~ U-140PZ3E8	50 m

- See "■ Recommended Wire Length and Wire Diameter for Power Supply System" under 1-10-1. Electrical Wiring of indoor unit.
- Decide the length and size of the power supply cable based on the maximum ampere tabulated above in accordance with the national wiring regulations.
- Select the fuse(s) and/or circuit breaker(s) from the types and ratings suitable for the maximum ampere tabulated above in accordance with the national wiring regulations.
- An RCD suitable for use with inverters, resistant to high frequency noise, is most suitable. RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.
- If capacity of power supply circuit and enforcement are not enough, it can causes the electric shock and a fire.



Do not joint wires.





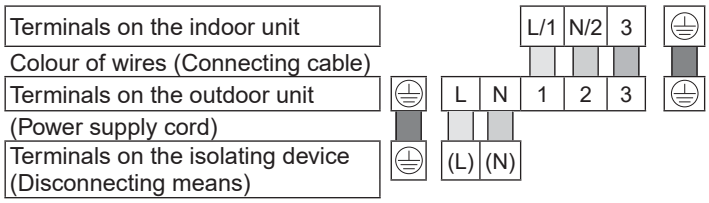
Use complete wire without joining.

Wire connection in this area must follow to national wiring rules.

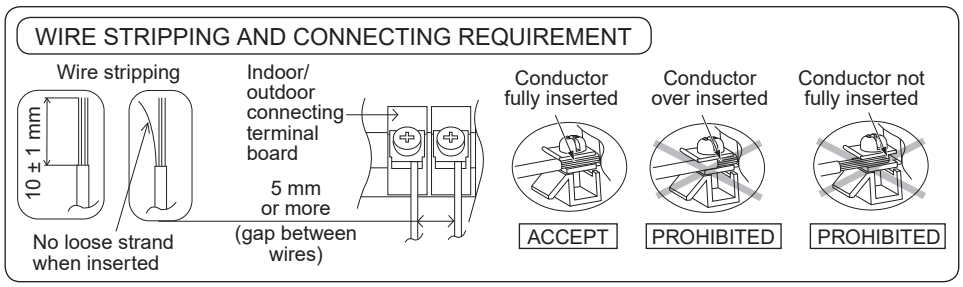
1-10-2-3. U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

⚠ Warning	This air conditioner must be installed in accordance with national wiring regulations.
	Cables connected to outdoor unit must be approved polychloroprene sheathed type 60245 IEC 57 or H05RN-F/H07RN-F or heavier.
	The units must be connected to the supply cables for fixed wiring by qualified technician. Circuit breaker must be incorporated in the fixed wiring in accordance with the national wiring regulations. The circuit breaker must be approved, suitable for the voltage and current ratings of equipment and have a contact separation by 3mm in all poles. When the supply cable is damaged, it must be replaced by qualified technician.
	Be sure to install a current leakage breaker, main switch and fuse to the main power supply, otherwise electric shocks may result.
	Be sure to connect the unit to secure earth connection. If the earthing work is not carried out properly, electric shocks may result. Earth wire shall be Yellow/Green (Y/G) in colour and longer than other AC wires for safety reason.
	Wiring shall be connected securely by using specified cables and fix them securely so that external force of the cables may not transfer to the terminal connection section. Imperfect connection and fixing leads to fire, etc.

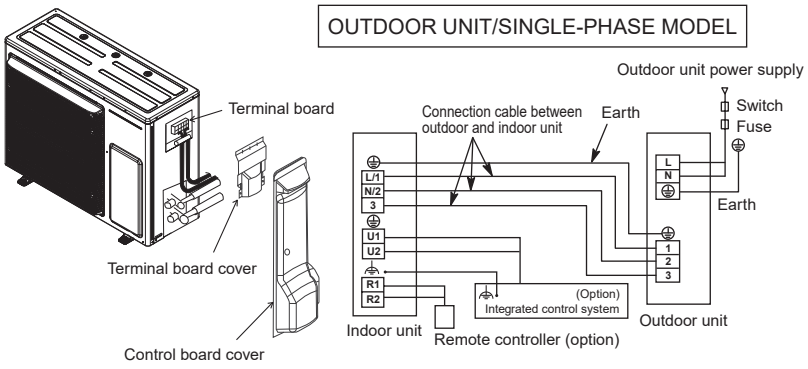
- Remove the control board cover and terminal board cover from the unit by loosening the screw.
- Ensure to connect the electrical cable connections and clamp the wires securely to the terminal connections using cord clamps so that no undue force is placed on the wires (power source cable, connection cable between indoor and outdoor unit, earth lead wire).
- Connect the power supply cord and connecting cable between indoor unit and outdoor unit according to the diagram below.

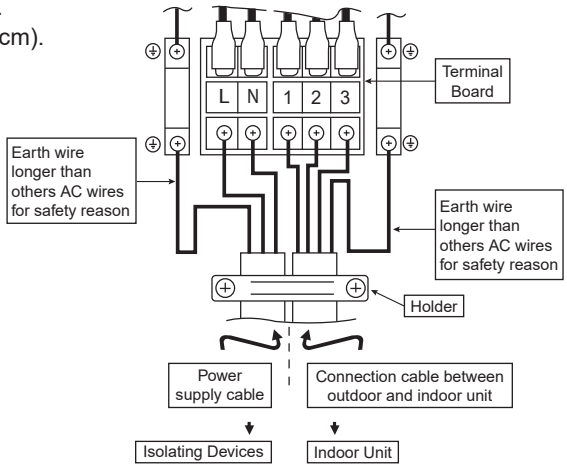


- For wire stripping and connection requirement, refer diagram below.



- Do not install a phase advance capacitor for power factor improvement.
  (It does not improve the power factor and will cause abnormal overheating.)
- Do not bind the excess cables together and place them inside this unit.
- Make sure that terminal board cover and control board cover mount correctly.
- Use the appropriate screwdriver for tightening the terminal screws. Small sized screwdriver damages the head of the screw and cannot tighten it properly.
- There is risk of damaging the screw if the terminal screw is over tightened.
  Tighten with the appropriate torque 1.57N•m ~ 1.96N•m (16kgf•cm~20kgf•cm).





This equipment complies with EN/IEC 61000-3-12

: functional earthing (for the shielded cable)

Outdoor unit

Model	Power supply cable						Time delay fuse or circuit capacity (A)
	Power supply	Min. wire size (mm^2)	Recommended Wire Length and Wire Diameter for Power Supply cable				
			Wire size (mm^2)	Max. length (m)	Wire size (mm^2)	Max. length (m)	
U-36PZH3E5	220-230-240V ~	1.5	1.5	13	2.5	22	20
U-50PZH3E5	220-230-240V ~	1.5	1.5	12	2.5	20	20
U-60PZH3E5	220-230-240V ~	2.5	-	-	2.5	15	25

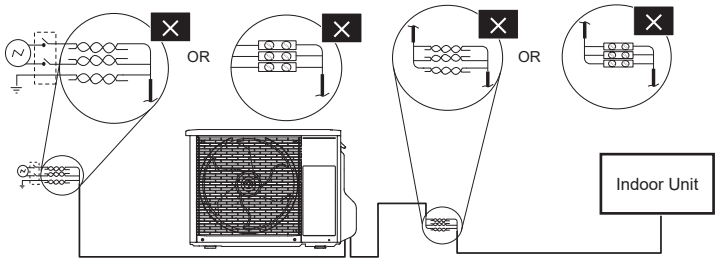
Control wiring

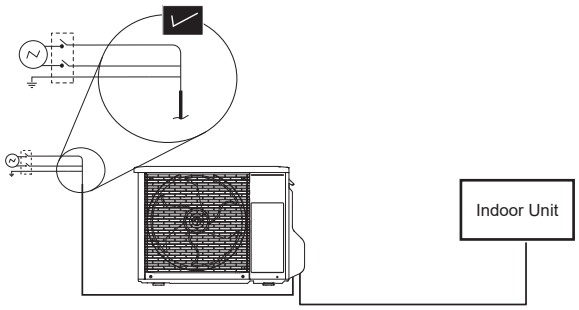
Type	Connection cable between outdoor and indoor unit	
	Outdoor unit	Max. length
1.5 mm^2	U-36 ~ 60PZH3E5	40 m

- See "■ Recommended Wire Length and Wire Diameter for Power Supply System" under 1-10-1. Electrical Wiring of indoor unit.
- The product meets the technical requirements of EN/IEC 61000-3-3.
- Decide the length and size of the power supply cable based on the maximum ampere tabulated above in accordance with the national wiring regulations.
- Recommended maximum length indicates the value calculated with the 2% voltage drop of the cable.
- Select the fuse(s) and/or circuit breaker(s) from the types and ratings suitable for the maximum ampere tabulated above in accordance with the national wiring regulations.
- An RCD suitable for use with inverters, resistant to high frequency noise, is most suitable. RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.
- If capacity of power supply circuit and enforcement are not enough, it can causes the electric shock and a fire.



Do not joint wires.





Use complete wire without joining.

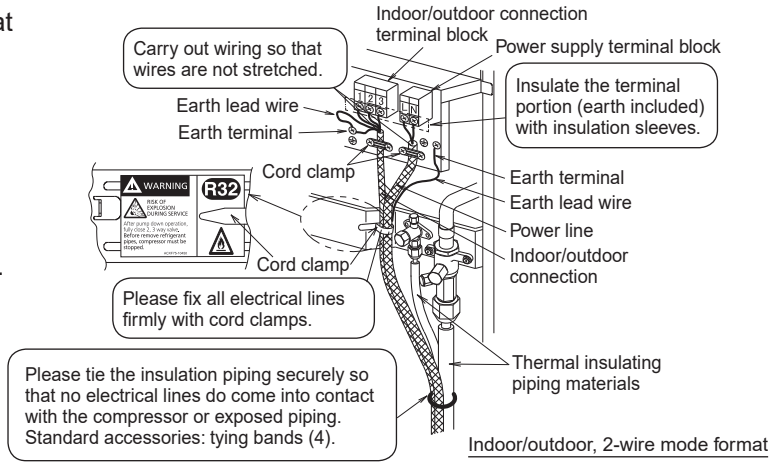
Wire connection in this area must follow to national wiring rules.

1-10-2-4. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5 U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

⚠WARNING	This air conditioner must be installed in accordance with national wiring regulations.
	Cables connected to outdoor unit must be approved polychloroprene sheathed type 60245 IEC 57 or H05RN-F/H07RN-F or heavier.
	The units must be connected to the supply cables for fixed wiring by qualified technician. Circuit breaker must be incorporated in the fixed wiring in accordance with the national wiring regulations. The circuit breaker must be approved, suitable for the voltage and current ratings of equipment and have a contact separation by 3mm in all poles. When the supply cable is damaged, it must be replaced by qualified technician.
	Be sure to install a current leakage breaker, main switch and fuse to the main power supply, otherwise electric shocks may result.
	Be sure to connect the unit to secure earth connection. If the earthing work is not carried out properly, electric shocks may result. ⏚
	Wiring shall be connected securely by using specified cables and fix them securely so that external force of the cables may not transfer to the terminal connection section. Imperfect connection and fixing leads to fire, etc.

- Ensure to connect the electrical cable connections and clamp the wires securely to the terminal connections using cord clamps so that no undue force is placed on the wires (power source cable, indoor/outdoor connection cables, earth lead wire).
- Do not install a phase advance capacitor for power factor improvement. (It does not improve the power factor and will cause abnormal overheating.)
- Do not bind the excess cables together and place them inside this unit.
- Protect the electrical cable with the protective bushing provided so that the cables do no get damaged on the knock hole or etched portions. If there is space between the electrical cables and the protective bushing occurs, seal it accordingly.
- Tie the cables with the provided binding strap so that they do not touch the compressor and the pipes.
- When setting up the cables, inside of unit install properly so that the front panel will not lift up. Make sure that front panel mount correctly.
- Use a round type terminal with an insulation sleeve for connecting to the terminal block.
- Use the appropriate screwdriver for tightening the terminal screws. Small sized screwdriver damages the head of the screw and cannot tighten it properly.
- There is risk of damaging the screw if the terminal screw is over tightened. Tighten with the appropriate torque.

Screw diameter name	Tightening torque N•m(kgf•cm)
M4	1.57~1.96 (16~20)
M5	1.96~2.45 (20~25)



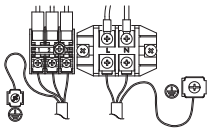
Indoor/outdoor, 2-wire mode format

- Direction to pull out wires



Seal wiring holes after wiring using included protection bush. (other holes are for connecting conduit pipe)

- Earth lead wire set up

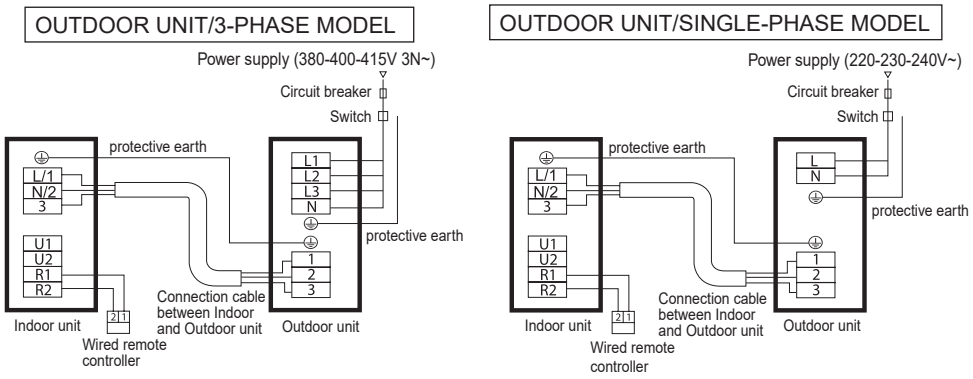


The earth lead wire shall be longer than other lead wires as shown in the figure for electrical safety in case it slips out of the cord from the anchorage.

- Be sure to connect the wires correctly to terminal board with connecting the crimp type ring terminal to the wires.
- If connecting two separate wires to a single crimped terminal, place the two crimped terminal wires together as shown in Fig. A (If the arrangement shown in Fig. B is used, poor contacts or contact damage may result.)



Fig. A (OK) Fig. B (not OK)



This equipment complies with EN/IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equals to※1 kVA at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure; by consultation with the distribution network operator if necessary that the equipment is connected only to supply with a short-circuit power Ssc greater than or equals to※1 kVA.

Ssc : Short circuit power

Outdoor unit

Model name	Power supply cable								Time delay fuse or circuit capacity (A)	Maximum ampere	※1 Ssc
	Power supply	Min. Wire size (mm²)	Recommended Wire Length and Diameter for Power Supply Cable								
			Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)			
U-71PZH3E5	220-230-240V~	2.5	2.5	12	4.0	20	6.0	30	25	20.4	3700 kVA
U-100PZH3E5	220-230-240V~	6.0	-	-	-	-	6.0	21	35	28.3	3900 kVA
U-125PZH3E5	220-230-240V~	6.0	-	-	-	-	6.0	18	40	32.7	4500 kVA
U-140PZH3E5	220-230-240V~	6.0	-	-	-	-	6.0	19	40	32.3	4450 kVA
U-71PZH3E8	380-400-415V 3N~	2.5	2.5	74	4.0	119	-	-	15	6.90	※2
U-100PZH3E8	380-400-415V 3N~	2.5	2.5	51	4.0	83	-	-	15	9.90	※2
U-125PZH3E8	380-400-415V 3N~	2.5	2.5	45	4.0	72	-	-	15	11.4	※2
U-140PZH3E8	380-400-415V 3N~	2.5	2.5	45	4.0	72	-	-	15	11.4	※2

※2 Intended for professional use. Permission from the power supplier is required when installing the U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8 outdoor units that are connected to a 16 A distribution network.

Control wiring

Model	Connection cable between outdoor and indoor unit								
	Min. wire size (mm²)	Single type		Twin type		Triple type		Double twin type	
		Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)	Wire size (mm²)	Max. length (m)
Type F3 (Middle Static Pressure Duct)	2.5	2.5	85	2.5	59	2.5	59	2.5	44
				4.0	85	4.0	85	4.0	70※3
Other model※4	2.5	2.5	85	2.5	85	2.5	85	2.5	85

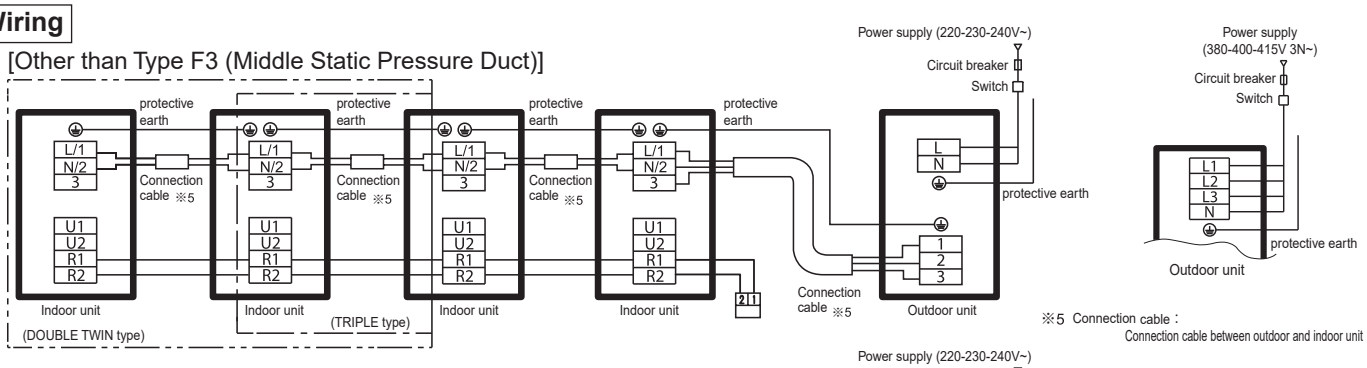
※3 If it exceeds 70m, up to 3 units will be 4mm² (85m) and the remaining one will be a separate power source of 2.5mm² (90m).

※4 4-Way Cassette Type, Wall Mounted Type, Ceiling Type, 4-Way Cassette Type 60 × 60 Type

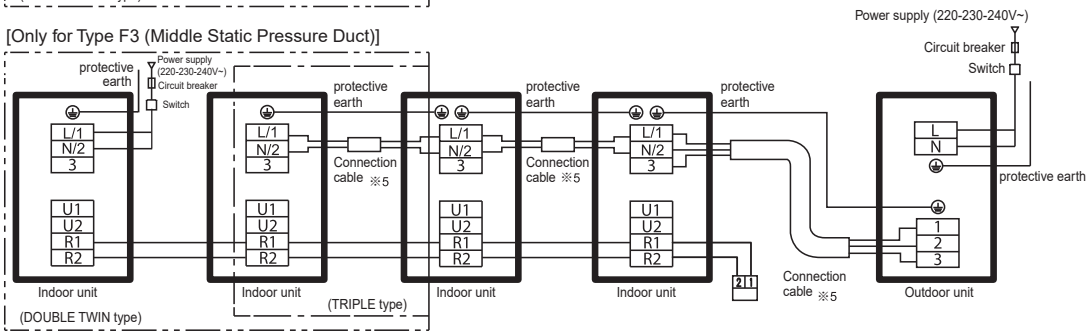
- See "■ Recommended Wire Length and Wire Diameter for Power Supply System" under 1-10-1. Electrical Wiring of indoor unit.
- The product meets the technical requirements of EN/IEC 61000-3-3.
- Decide the length and size of the power supply cable based on the maximum ampere tabulated above in accordance with the national wiring regulations.
- Recommended maximum length indicates the value calculated with the voltage drop of the cable is 2%.
- Select the fuse(s) and/or circuit breaker(s) from the types and ratings suitable for the maximum ampere tabulated above in accordance with the national wiring regulations.
- An RCD suitable for use with inverters, resistant to high frequency noise, is most suitable.
  RCD's intended for protection to include high frequency currents are unnecessary and should be avoided, as potentially causing nuisance tripping, in this application.
- If capacity of power supply circuit and enforcement are not enough, it can causes the electric shock and a fire.

Wiring

[Other than Type F3 (Middle Static Pressure Duct)]



[Only for Type F3 (Middle Static Pressure Duct)]

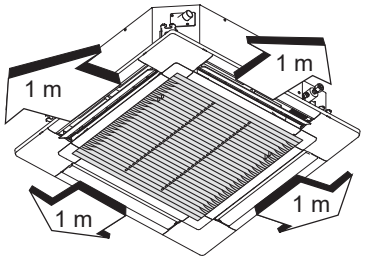


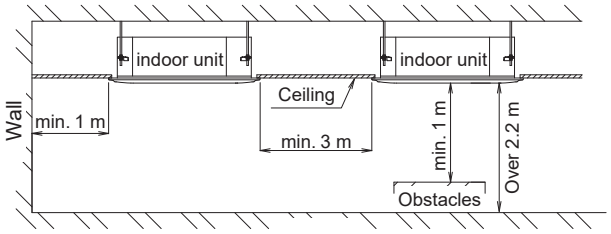
1-11. Installation Instructions

1-11-1. Indoor Unit

1-11-1-1. 4-Way Cassette Type S-3650PU3E, S-6071PU3E, S-1014PU3E

4-Way Cassette Type





■ SELECTING THE INSTALLATION SITE

AVOID:

- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause “condensation” on the air discharge ports, causing them to spray or drip water.
- locations where the remote controller will be splashed with water or affected by dampness or humidity.
- installing the remote controller behind curtains or furniture.
- locations where high-frequency emissions are generated.

DO:

- select an appropriate position from which every corner of the room can be uniformly cooled.
- select a location where the ceiling is strong enough to support the weight of the unit.
- select a location where tubing and drain pipe have the shortest run to the outdoor unit.
- allow room for operation and maintenance as well as unrestricted air flow around the unit.
- the limitation of the tubing length between the indoor and the outdoor units should be checked “1-11-2. Installation Instructions of Outdoor Unit”.
- allow room for mounting the remote controller about 1 m off the floor, in an area that is not in direct sunlight or in the flow of cool air from the indoor unit.

■ HOW TO INSTALL THE INDOOR UNIT

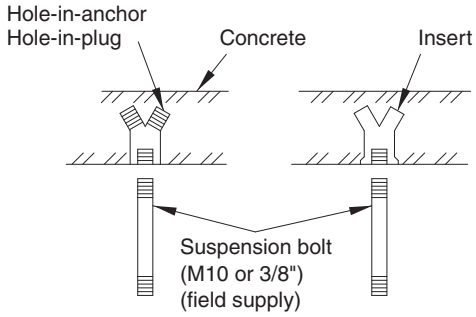
● Preparation for Suspending

This unit uses a drain pump. Use a carpenter's level to check that the unit is level.

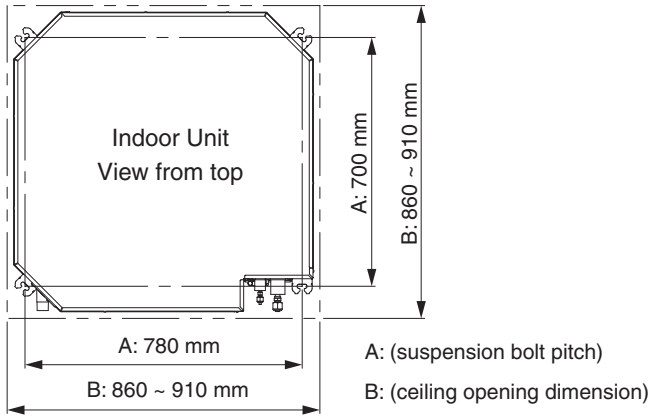
Note: For DC Fan Motor Tap Change Procedure for 4-Way Cassette, see page 1-11-1-1-15 to 1-11-1-1-18.

● Suspending the Indoor Unit

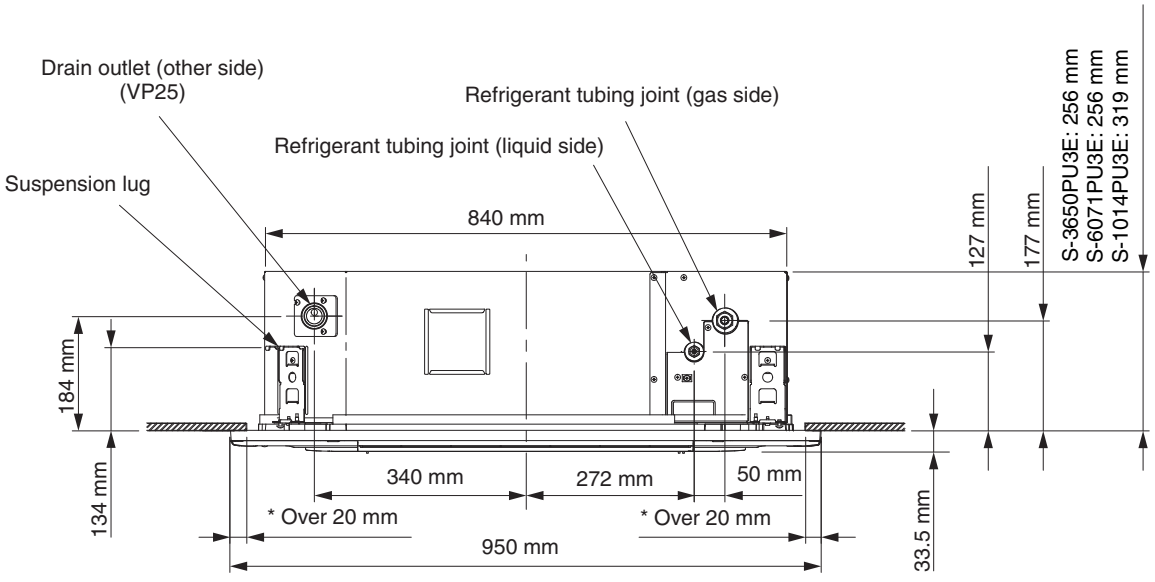
(1) Fix the suspension bolts securely in the ceiling using the method shown in the diagrams, by attaching them to the ceiling support structure, or by any other method that ensures that the unit will be securely and safely suspended.



(2) Follow the diagram to make the holes in the ceiling.



(3) Determine the pitch of the suspension bolts using the supplied full-scale installation diagram (printed on container box). The diagram show the relationship between the positions of the suspension fitting, unit, and panel. Use the nut (field supply) and washer (supplied) for upper and lower position of the suspension lug.



* The overlapping portion between the ceiling and panel for cassette should be kept over 20 mm.

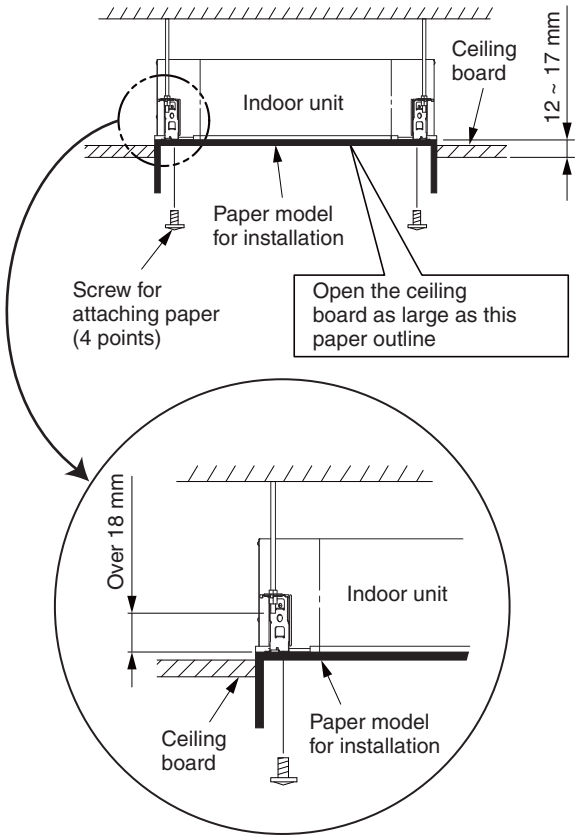
● Placing the Unit Inside the Ceiling

This unit is equipped with the drain pump. Check a tape measure or carpenter's level.

Before installing the panel for cassette, complete the work of drain pipe and refrigerant tube installation.

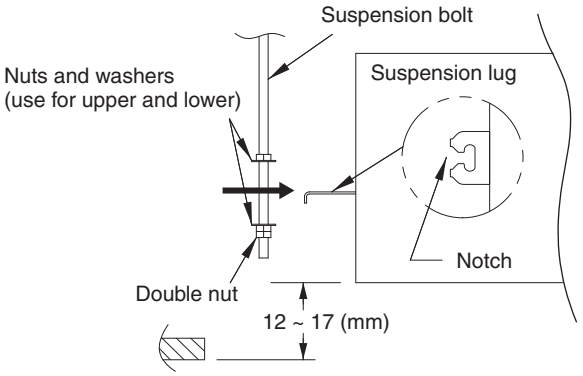
(1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts using the supplied full-scale installation diagram.
Tubing and wiring must be laid inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing and wiring into position for connection to the unit before placing the unit inside the ceiling.

(2) The length of suspension bolts must be appropriate for a distance between the bottom of the bolt and the bottom of the unit of more than 18 mm.



Full-scale installation diagram
(printed on top of container box)

(3) Thread the 3 hexagonal nuts and 2 washers onto each of the 4 suspension bolts. Use 1 nut and 1 washer for the upper side, and 2 nuts and 1 washer for the lower side, so that the unit will not fall off the suspension lugs.



(4) Adjust so that the distance between the unit and the ceiling bottom is 12 to 17 mm. Tighten the nuts on the upper side and lower side of the suspension lug.

(5) Remove the protective polyethylene used to protect the fan parts during transport.

(6) Check with a tape measure or carpenter's level.

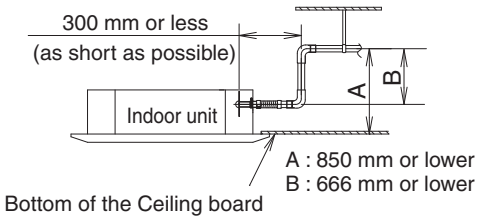
● Installing the Drain Pipe

Before Performing the Installation Drain Piping

(1) Limitations of Raising the Drain Pipe Connection

CAUTION

- The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling.
  Do not attempt to raise it higher than 850 mm.
  Doing so will result in water leakage.

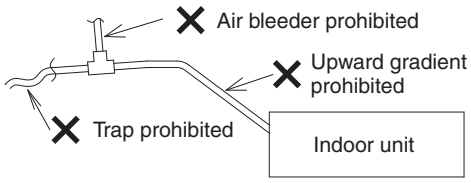


* Length of supplied drain pipe = 250 mm

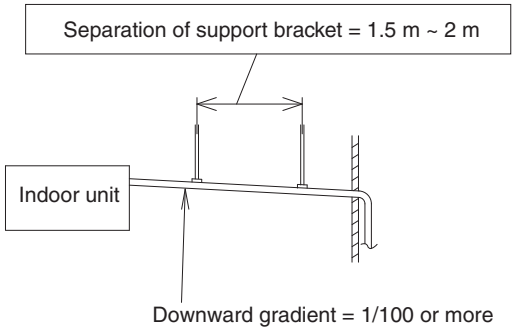
(2) Limitations of Drain Pipe Connection

CAUTION

- Do not install the drain pipe with an upward gradient from the drain port connection. This will cause the drain water to flow backward and leak when the unit is not operating.
- Do not install an air bleeder as this may cause water to spray from the drain pipe outlet.
- Do not provide U-trap or bell-shaped trap in the middle of the drain pipe. Doing so will cause abnormal sound.



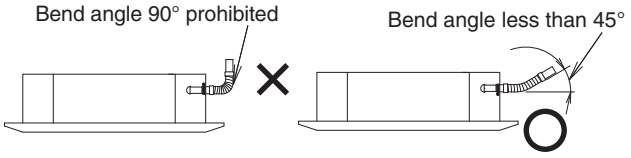
- Make sure the drain pipe has a downward gradient (1/100 or more; downward from drain port connection).



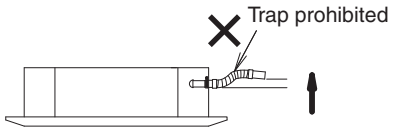
(3) Limitations of Drain Hose Connection

CAUTION

- Do not bend the supplied drain hose 90° or more.
  Bend it less than 45°.



- Do not make a trap in the middle of the supplied drain hose. Doing so will cause abnormal sound.



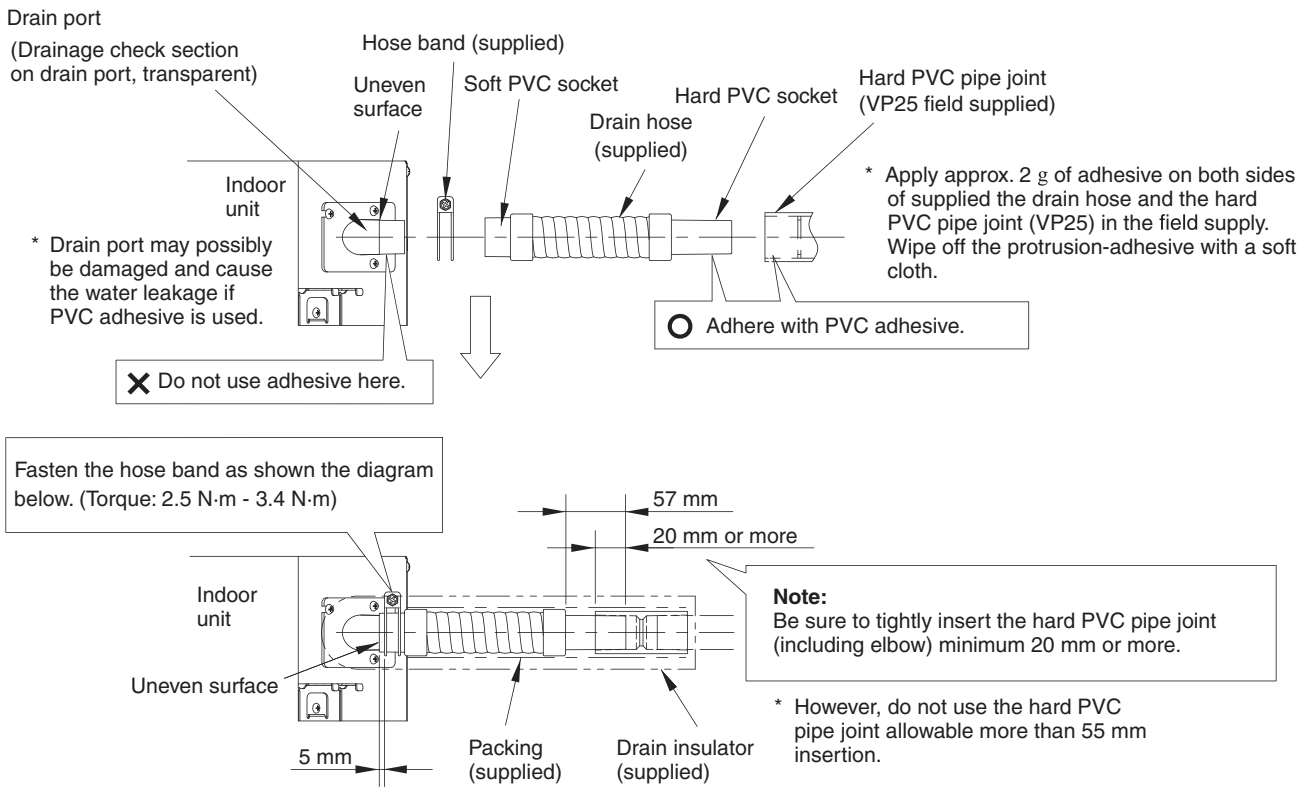
Installing the Drain Pipe

CAUTION

- Do not apply force to the drain port when connecting the drain pipe. Install and fix it near the indoor unit as close as possible.
- Do not use adhesive when connecting the drain port pipe and the drain hose.

(1) How to Install the Drain Pipe

1) First insert the supplied hose band into the drain port pipe. Then make sure the head of the screw is facing toward a technical engineer when placing the screw of the hose band at an upward angle.
2) Insert the soft PVC socket of the supplied drain hose to the drain port pipe. Do not use adhesive when connecting the drain hose to the drain port pipe. Insert it until the tip of the drain hose contacts the uneven surface of the drain port pipe.
3) Move the hose band so that the center position of the hose band can be placed approx. 30 mm away from the external plate of the indoor unit. See diagram below.
4) Screw the drain hose tightly facing the screw of the hose band upward. (Torque: 2.5 N·m - 3.4 N·m) (If the screw is tightened beneath the drain hose, the troubles will be generated.)
5) Apply approx. 2 g of adhesive on both sides of the drain hose without connection of the hard PVC socket and the hard PVC pipe joint (VP25) in the field supply.
6) Connect the drain hose and the hard PVC pipe joint so that the adhesive area of both sides can be overlapped. Wipe off the protrusion-adhesive with a soft cloth.



* After checking the drainage, wrap the supplied packing and drain pipe insulator around the pipe.

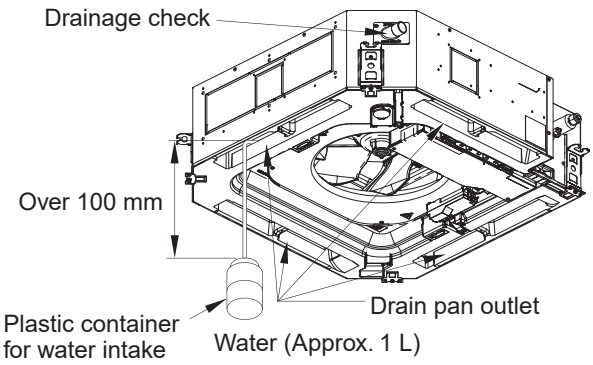
Checking the Drainage

CAUTION **Be careful since the fan will start when you short the pin on the indoor unit control PCB.**

After wiring (see “1-10. Electrical Wiring”) and drain piping are completed, use the following procedure to check that the water will drain smoothly. For this, prepare a bucket and wiping cloth to catch and wipe up spilled water.

(1) Connect power to the power terminal board (L/1, N/2 terminals) inside the electrical component box.

(2) Slowly pour about 1 L of water into the drain pan to check drainage.

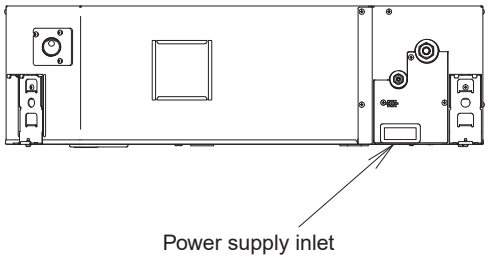


(3) Short the check pin (CHK) (6P : 1-4) on the indoor unit control PCB and operate the drain pump. Check the water flow through the transparent drain pipe and see if there is any leakage.
* If the check pin (CHK) (6P:1-4) is shorted, the fan starts rotating at high speed and could cause injury.

(4) When the check of drainage is complete, open the check pin (CHK) (6P : 1-4) and remount the tube cover.

(5) Checkpoint after installation
After installation of indoor and outdoor units, panels and electrical wiring, check the section “■ CHECKLIST AFTER INSTALLATION WORK” on page 1-11-1-1-38.

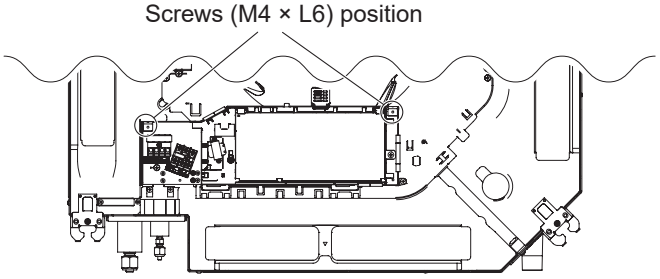
● Important Note for Wiring 4-Way Cassette Type



(1) The power supply inlet is located at the lower area of the refrigerant tubing side of the unit. The electrical component box is located at the air intake of the bottom of the unit.

(2) Before installing the panel for cassette, be sure to carry out the wiring connection.

(3) Remove the lid located on the bottom of the indoor unit attaching the electrical component box by unscrewing screws (M4 × L6) (×2).



(4) Lead the wires from the power supply inlet to the unit. Be sure to lead the wires through the power supply inlet. Make sure that no wire is caught between the indoor unit and panel for cassette. Otherwise, the unit may cause a fire.

(5) Connect the wires into the terminals through the power supply inlet for the electrical component box.
Fix the wires with a clamping clip.

(6) Reinstall the lid of the electrical component box in its original position with paying attention not to have the wires caught in the lid.
See “1-10. Electrical Wiring”.

■ HOW TO PROCESS TUBING

Must ensure mechanical connections be accessible for maintenance purposes.

● Connecting the Refrigerant Tubing

NOTE

When connecting flare at indoor side, make sure that the flare connection is used only once. If torqued up and released, the flare must be remade. Once the flare connection was torqued up correctly and leak test was made, thoroughly clean and dry the surface to remove oil, dirt and grease by following instructions of silicone sealant. Apply neutral cure & ammonia-free silicone sealant that is non-corrosive to copper & brass to the external of the flared connection to prevent the ingress of moisture on both the gas & liquid sides. (Moisture may cause freezing and premature failure of the connection.)

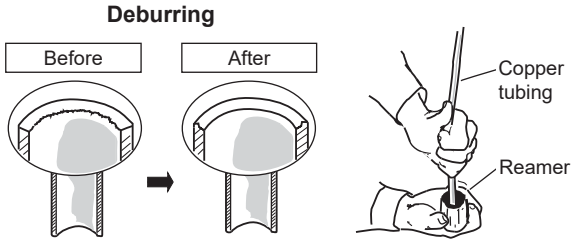
Use of the Flaring Method

Many of conventional split system air conditioners employ the flaring method to connect refrigerant tubes that run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

Flaring Procedure with a Flare Tool

(1) Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 30 – 50 cm longer than the tubing length you estimate.

(2) Remove burrs at each end of the copper tubing with a tube reamer or a similar tool. This process is important and should be done carefully to make a good flare. Be sure to keep any contaminants (moisture, dirt, metal filings, etc.) from entering the tubing.

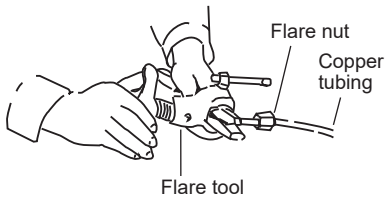


NOTE

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube.

(3) Remove the flare nut from the unit and be sure to mount it on the copper tube.

(4) Make a flare at the end of the copper tube with a flare tool.



NOTE

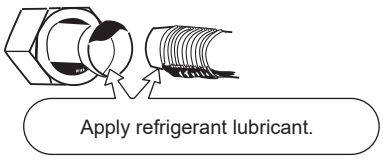
When flared joints are reused, the flare part shall be re-fabricated.
A good flare should have the following characteristics:

- inside surface is glossy and smooth
- edge is smooth
- tapered sides are of uniform length

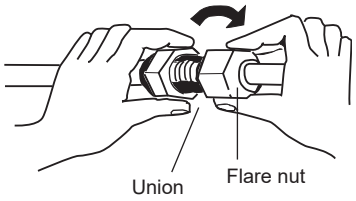
Caution Before Connecting Tubes Tightly

(1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.

(2) Be sure to apply refrigerant lubricant (ether oil) to the inside of the flare nut before making piping connections. This is effective for reducing gas leaks.



(3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match.



- Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.

● Connecting Tubing Between Indoor and Outdoor Units

(1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing.

Indoor Unit Tubing Connection Unit : mm

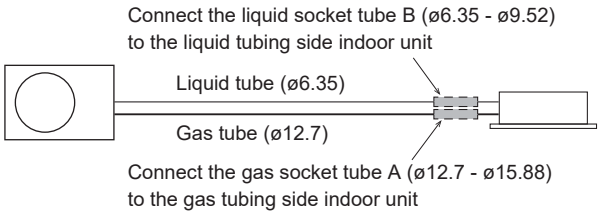
Indoor unit type	S-3650PU3E	S-6071PU3E	S-1014PU3E
Gas tube	ø12.7	ø15.88 (ø12.7)	ø15.88
Liquid tube	ø6.35	ø9.52 (ø6.35)	ø9.52

Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-6071PU3E.
The size of parenthesis indicates the connection tube diameter when using the different-diameter-tube joint.

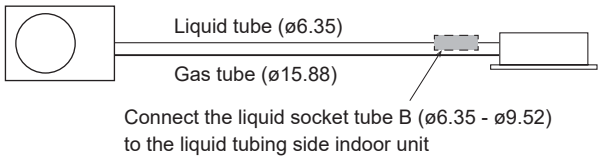
How to use different-diameter-tube joint (supplied)

1) When using with single connection

• Outdoor PZ3 series (Type 60) • PZH3 series (Type 60)



• Outdoor PZ3 series (Type 71)



The following examples show the multiple connections.

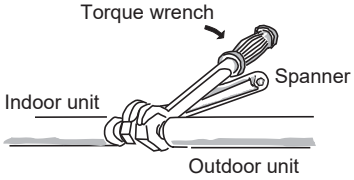
- Connectable or disconnectable units vary depending on a series of outdoor units.
  See “7. TWIN TYPE CONNECTIONS” on page 1-11-2-2-24 and “7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS” on page 1-11-2-4-23 as well.
- Two, three or four indoor units can be operated simultaneously with a single remote controller.
  Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin, triple and double twin system.
  No address setting is necessary.

Applicable “TWIN” “TRIPLE” and “DOUBLE TWIN” combination table

	Outdoor unit	Type 71 (Only PZH series)	Type 100	Type 125	Type 140
TWIN	combination	U-71 / S-3650 S-3650	U-100 / S-3650 S-3650	U-125 / S-6071 S-6071	U-140 / S-6071 S-6071
TRIPLE	combination	———	U-100 / S-3650 S-3650 S-3650	U-125 / S-3650 S-3650 S-3650	U-140 / S-3650 S-3650 S-3650
DOUBLE TWIN	combination	———	———	U-125 / S-3650 S-3650 S-3650 S-3650	———

(2) To fasten the flare nuts, apply specified torque.

- When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use two spanners. When tightening the flare nuts, use a torque wrench.
  If the flare nuts are over-tightened, the flare may be damaged, which could result in refrigerant leakage and cause injury or asphyxiation to room occupants.



- For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R410A, R32 (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table below.

Tube diameter	Tightening torque (approximate)	Tube thickness
ø6.35 (1/4")	14 – 18 N · m {140 – 180 kgf · cm}	0.8 mm
ø9.52 (3/8")	34 – 42 N · m {340 – 420 kgf · cm}	0.8 mm
ø12.7 (1/2")	49 – 55 N · m {490 – 550 kgf · cm}	0.8 mm
ø15.88 (5/8")	68 – 82 N · m {680 – 820 kgf · cm}	1.0 mm

Because the pressure is approximately 1.6 times higher than conventional refrigerant R22 pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.

- In order to prevent damage to the flare caused by over-tightening of the flare nuts, use the table above as a guide when tightening.
- When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 200 mm.

● Insulating the Refrigerant Tubing

Tubing Insulation

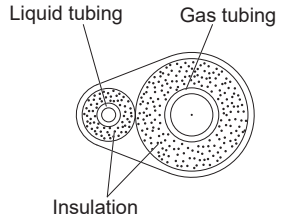
Must ensure that pipe-work shall be protected from physical damage.

- Thermal insulation must be applied to all units tubing, including distribution joint (field supply).
  * For gas tubing, the insulation material must be heat resistant to 120°C or above. For other tubing, it must be heat resistant to 80°C or above.

  Insulation material thickness must be 10 mm or greater.

  If the conditions inside the ceiling exceed DB 30°C and RH 70%, increase the thickness of the gas tubing insulation material by 1 step.

Two tubes arranged together



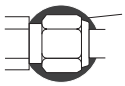
CAUTION

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

Additional Precautions For R32 Models.

Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.

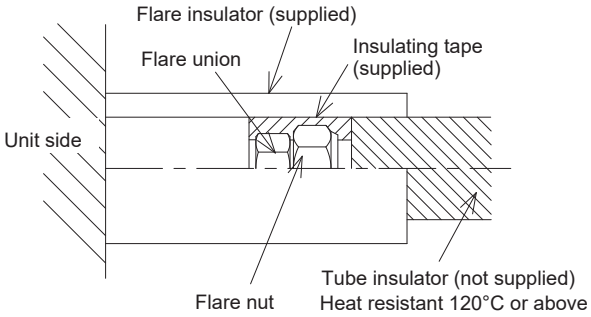


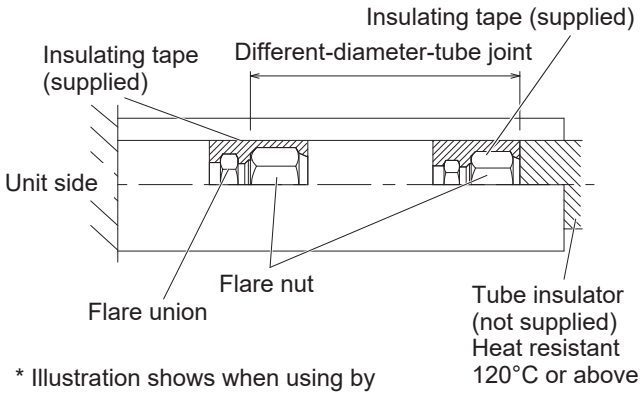
Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

Taping the flare nuts

Wind the insulating tape around the flare nuts at the gas/liquid tube connections. Then cover up the tubing connections with the flare insulator.





* Illustration shows when using by S-6071PU3E. (Only 60PZH3, PZ3 single series)

Insulation material

The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.

NOTE

If noise bothers you from the area between indoor and outdoor units' connection pipes, it is effective to wind the soundproofing materials (field supply) to reduce noise.

CAUTION

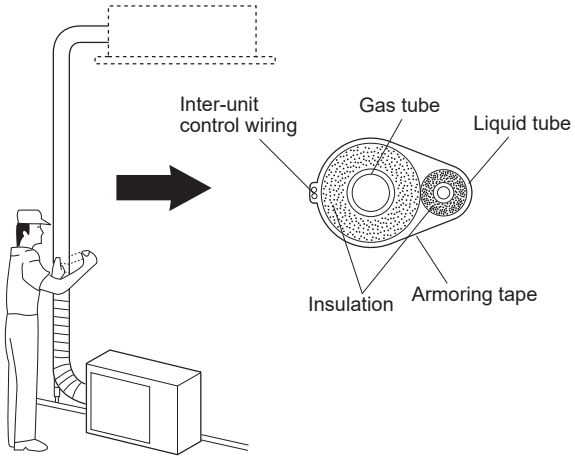
After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack.
Never grasp the drain or refrigerant connecting outlets when moving the unit.

● **Taping the Tubes**

(1) At this time, the refrigerant tubes (and electrical wiring if local codes permit) should be taped together with armoring tape in 1 bundle.
To prevent condensation from overflowing the drain pan, keep the drain hose separate from the refrigerant tubing.

(2) Wrap the armoring tape from the bottom of the outdoor unit to the top of the tubing where it enters the wall. As you wrap the tubing, overlap half of each previous tape turn.

(3) Clamp the tubing bundle to the wall, using 1 clamp approx. each meter.

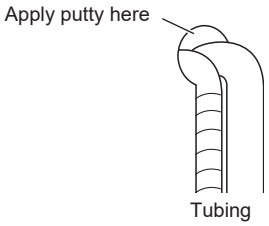


NOTE

Do not wind the armoring tape too tightly since this will decrease the heat insulation effect. Also ensure that the condensation drain hose splits away from the bundle and drips clear of the unit and the tubing.

● **Finishing the Installation**

After finishing insulating and taping over the tubing, use sealing putty to seal off the hole in the wall to prevent rain and draft from entering.



■ **HOW TO INSTALL THE TIMER REMOTE CONTROLLER OR HIGH-SPEC WIRED REMOTE CONTROLLER (OPTIONAL PART)**

NOTE

See Section “2. TEST RUN”.

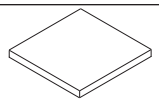
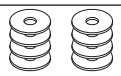
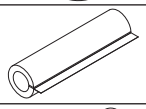
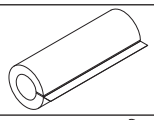
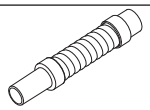
■ GENERAL

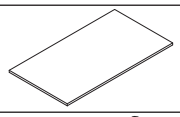
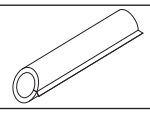
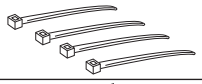
This booklet briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning. The installation of pipe-work shall be kept to a minimum.

WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
CAUTION	This symbol shows type of flammable refrigerant contained in the system.
CAUTION	This symbol shows that the Operating Instructions should be read carefully.
CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the Technical Manual.
CAUTION	This symbol shows that there is information included in the Operating Instructions and/or Installation Instructions.

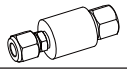
● Accessories Supplied with Unit

(4-Way Cassette)

Part Name	Figure	Q'ty	Remarks
Full-scale installation diagram		1	Printed on container box
Washer		8	For suspension bolts
Screw		4	For full-scale installation diagram
Insulating tape		2	For gas and liquid tube flare nuts
Flare insulator		1	For liquid tube
Flare insulator		1	For gas tube
Drain hose		1	
Hose band		1	For securing drain hose

Part Name	Figure	Q'ty	Remarks
Packing		1	
Drain insulator		1	
Clamper		4	For electrical wiring
Operating Instructions		1	
Installation Instructions		1	

As for S-6071PU3E, the following accessories are additionally provided.

Part Name	Figure	Q'ty	Remarks
Different-diameter-tube joint		1	Gas socket tube A : ø15.88 → ø12.7
		1	Liquid socket tube B : ø9.52 → ø6.35
Insulating tape		2	For gas and liquid tube flare nuts

- Use M10 for suspension bolts.
- Field supply for suspension bolts and nuts.

● Type of Copper Tube and Insulation Material

If you wish to purchase these materials separately from a local source, you will need:

1. Deoxidized annealed copper tube for refrigerant tubing.
2. Foamed polyethylene insulation for copper tubes as required to precise length of tubing. Wall thickness of the insulation should be not less than 8 mm.
3. Use insulated copper wire for field wiring. Wire size varies with the total length of wiring. See "1-10. Electrical Wiring" for details.

CAUTION

Check local electrical codes and regulations before obtaining wire. Also, check any specified instructions or limitations.

● Additional Materials Required for Installation

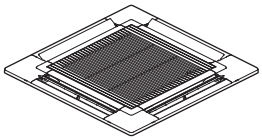
1. Refrigeration (armored) tape
2. Insulated staples or clamps for connecting wire (See your local codes.)
3. Putty
4. Refrigeration tubing lubricant
5. Clamps or saddles to secure refrigerant tubing
6. Scale for weighing

■ HOW TO INSTALL THE PANEL FOR CASSETTE

4-Way Cassette Type

CZ-KPU3, CZ-KPU3W

Accessories

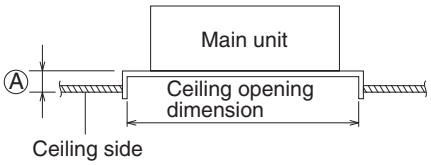
Panel for cassette ×1	Screws ×4
	4 × 12 

● Preparation for Panel for Cassette Installation

(1) Checking the unit position

1) Check that the ceiling hole is within this range:
860 mm × 860 mm to 910 mm × 910 mm

2) Confirm that the position of the indoor unit and the ceiling as shown in the diagram. If the positions of the ceiling surface and unit do not match, air leakage, water leakage, flap operation failure, or other problems may occur.

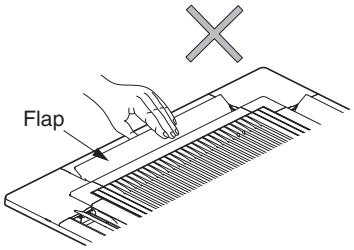


Ⓐ : Be sure to necessarily make a space within the range of 12 mm ~ 17 mm.

If not within this range, malfunction or other trouble may occur.

⚠ CAUTION

- **Never place the panel face-down. Either hang it vertically or place it on top of a projecting object. Placing it face-down will damage the surface.**
- **Do not touch the flap or apply force to it. (This may cause flap malfunction.)**

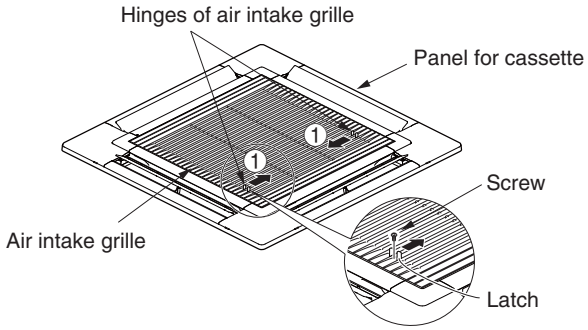


● How to Install the Panel for Cassette

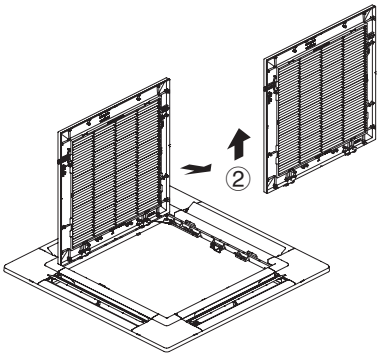
(1) Removing the air intake grille

1) Remove the 2 screws on the latch of the air intake grille. (Reattach the air intake grille after installation of the panel for cassette.)

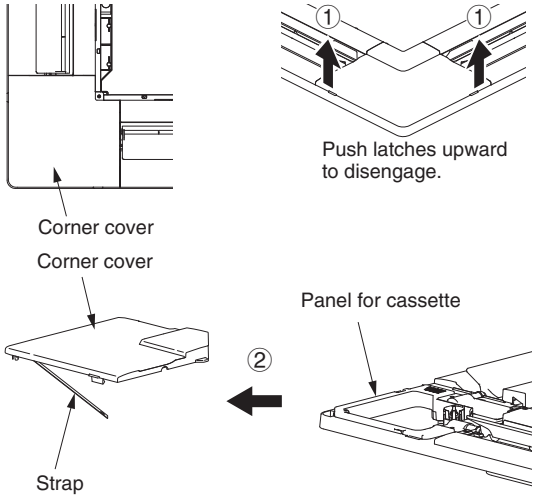
2) Slide the air intake grille catches in the direction shown by the arrows ① to open the grille.



3) With the air intake grille opened, remove the grille hinge from the panel for cassette by sliding it in the direction shown by the arrow ②. (Reattach the air intake grille after installation of the panel for cassette.)



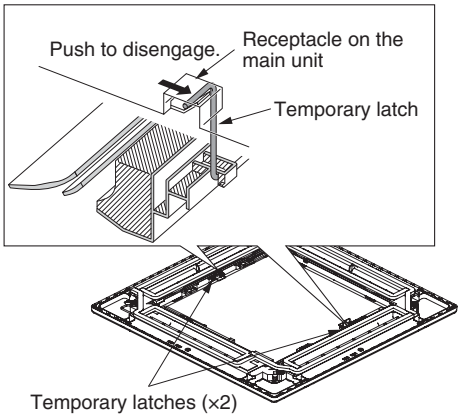
(2) Removing the corner cover
Push the latches on the corner cover in the direction of the arrow ① and remove them by sliding in the direction of the arrow ②.



(3) Installing the panel for cassette
The power must be turned ON in order to change the flap angle. (Do not attempt to move the flap by hand. Doing so may damage the flap.)

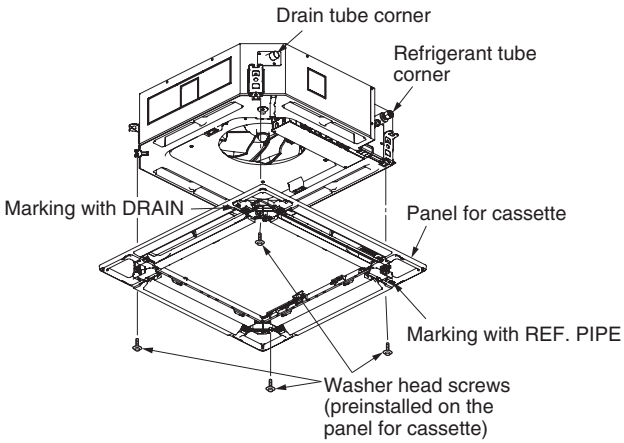
1) Hang the temporary latches on the inside of the panel for cassette to the receptacle on the unit to temporarily attach the panel for cassette in place.

- The panel for cassette must be installed in the correct direction relative to the unit. Align the REF. PIPE and DRAIN marks on the panel for cassette corner with the correct positions on the unit.
- When removing the panel for cassette, push the temporary latches outward while holding the panel for cassette.



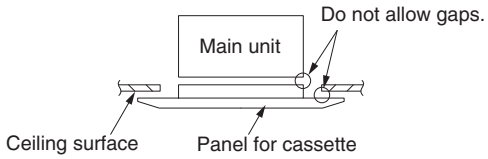
2) Align the panel installation holes and the unit screw holes.

3) Tighten the provided washer head screws at the 4 panel installation locations so that the panel is attached tightly to the unit.

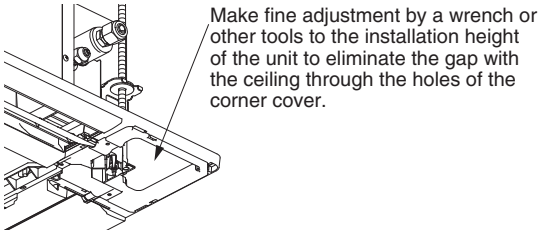


4) Check that the panel is attached tightly to the ceiling.

- At this time, make sure that there are no gaps between the unit and the panel for cassette, or between the panel for cassette and the ceiling surface.

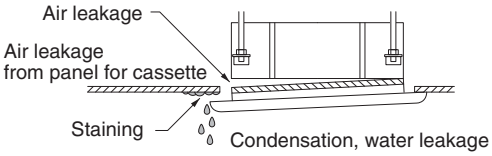


- If there is a gap between the panel and the ceiling, leave the panel for cassette attached and make fine adjustments to the installation height of the unit to eliminate the gap with the ceiling.

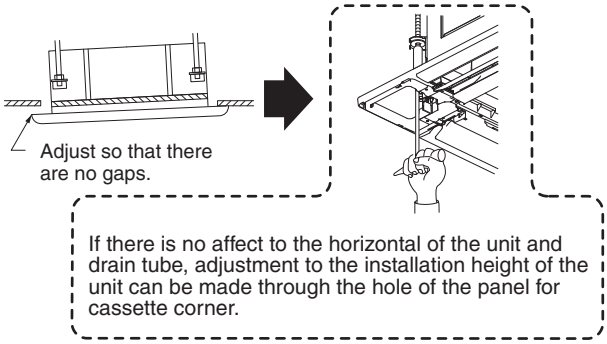


CAUTION

- **If the screws are not sufficiently tightened, trouble such as that shown in the figure below may occur. Be sure to tighten the screws securely.**



- **If a gap remains between the ceiling surface and the panel for cassette even after the screws are tightened, adjust the height of the unit again.**

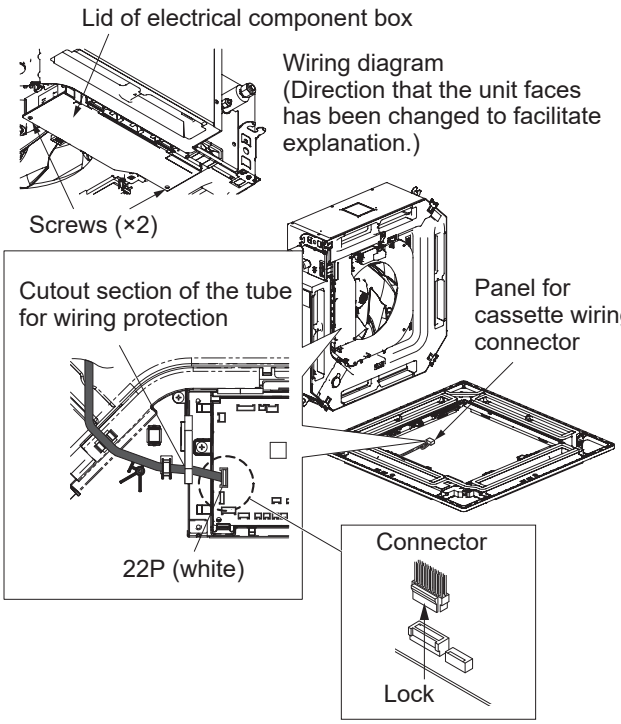


(4) Wiring the Panel for Cassette

1) Open the cover of the electrical component box for the indoor unit control PCB.

2) Connect the 22P connector (white) from the panel for cassette to the connector on the indoor unit control PCB in the unit electrical component box. In this case, expose the cutout section of the tube for the wiring protection to the outside from the electrical component box and fix it with the clamper attached to the electrical component box.

- **Insert connector lock facing PCB edge until it is locked in place. (If not connected completely, the Auto Flap will not operate and "P09" is displayed on the remote controller. When the connector plugged in the wrong direction, parts on the PCB may be damaged.)**
- **Check that the wiring connector is not caught between the electrical component box and the cover.**
- **Check that the wiring connector is not caught between the unit and the panel for cassette.**

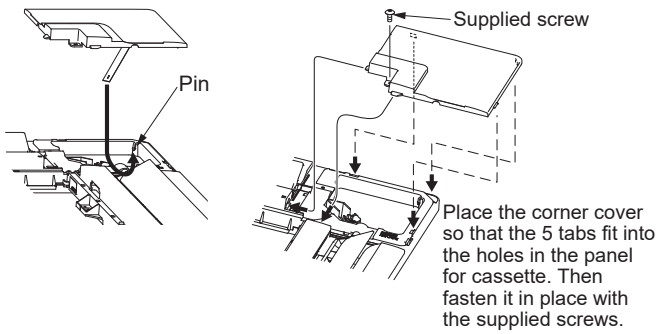


(5) How to Attach the Corner & Air Intake Grille

A. Attaching the corner cover

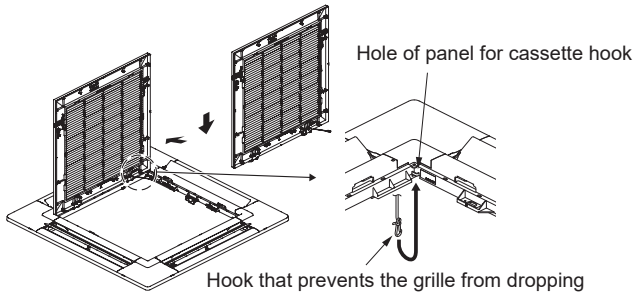
1) Check that the safety strap from the corner cover is fastened to the panel for cassette pin, as shown in the figure.

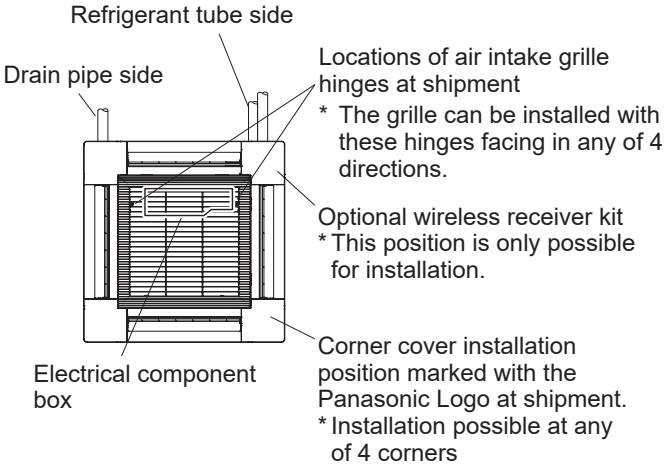
2) Use the supplied screws to attach the corner cover to the panel for cassette.

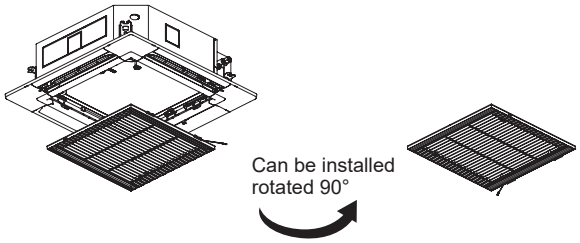


B. Attaching the air intake grille

- To install the air intake grille, follow the steps for "Removing the grille" in the reverse order. By rotating the air intake grille, it is possible to attach the grille onto the panel for cassette from any of 4 directions. Coordinate the directions of the air intake grilles when installing multiple units, and change the directions according to customer's requests.
- When attaching the air intake grille, be careful that the flap lead wire does not become caught.
- Be sure to attach the safety strap that prevents the air intake grille from dropping off to the panel for cassette unit as shown in the figure below.
- With this panel for cassette, the directions of the air intake grille lattices when installing multiple units, and the position of the label showing the company name on the corner panel, can be changed according to customer's requests, as shown in the figure below. However, the wireless signal receiver can only be installed at the refrigerant-tubing corner of the ceiling unit.







● Others

1. Checking After Installation
   1) Check that there are no gaps between the unit and the panel for cassette, or between the panel for cassette and the ceiling surface.
      * Gaps may cause water leakage and condensation.
   2) Check that the wiring is securely connected.
      * If it is not securely connected, the auto flap will not operate.
      ("P09" is displayed on the remote controller.)
      In addition, the water leakage and condensation may occur.
2. Operating the Wireless Remote Controller
   See "8. HOW TO INSTALL THE WIRELESS REMOTE CONTROLLER RECEIVER".
3. Selecting DC Fan Motor Tap (4-Way Cassette)
   Check the optional parts accordingly in the following table.

Table for DC Fan Motor Tap Settings[*1]

Setting No.	Remote controller setting data Item code 5d	Contents & optional parts name
(1)	0001	Air-flow blocking kit (for 3-way air flow)[*2]
		Air-flow blocking kit (when a duct is connected.)
		High-ceiling setting 1[*2]
(3)	0003	High-ceiling setting 2[*2]
(6)	0006	Air-flow blocking kit (for 2-way air flow)[*2]

*1 When using optional parts in different setting No. in combination with multiple units, conform it to the larger setting No.

*2 Ceiling height (m)

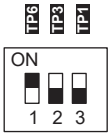
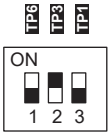
Indoor unit type	S-3650PU3E	S-6071PU3E	S-1014PU3E
Standard (factory setting)	2.7	3.0	3.6
High-ceiling setting 1	3.2	3.3	4.3
High-ceiling setting 2	3.5	3.6	5.0
Air-flow blocking kit (for 3-way air flow)	3.8	3.8	4.7
Air-flow blocking kit (for 2-way air flow)	4.2	4.2	5.0

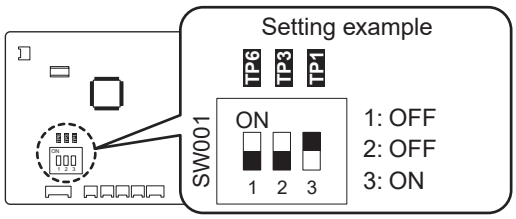
<Procedure of setting on the indoor unit control PCB>

Stop the system before performing these steps.

① Open the electrical component box cover, then check the indoor unit control PCB.

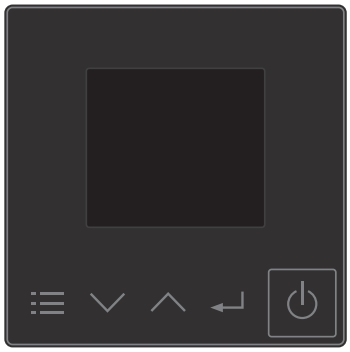
② Change the DIP switch (SW001) on the indoor unit control PCB in accordance with the setting number which was confirmed in "Table for DC Fan Motor Tap Settings".

Setting No.	DIP switch	Setting No.	DIP switch
(1)		(6)	
(3)			



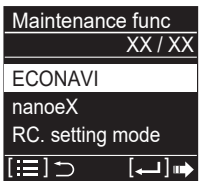
Indoor unit control PCB

<Procedure of CZ-RTC6 series>
Stop the system before performing these steps.

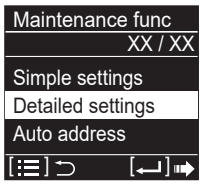


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

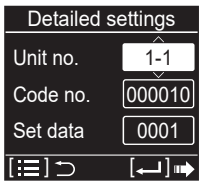


② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the ∨ or ∧ button.

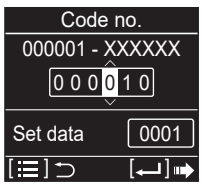


After selecting “Unit no.”, press the ↵ button and proceed to Step ④.
If the ☰ button is pressed, proceed to Step ⑥.

④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.



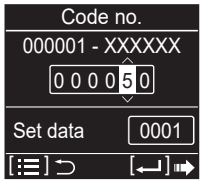
Fig. A



Change the “Code no.” one digit at a time so that it becomes [00005D] along with the following procedures.

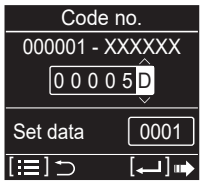
Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Fig. B



Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

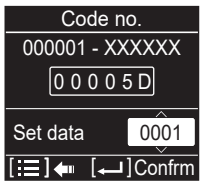
Fig. C



Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step ⑤.

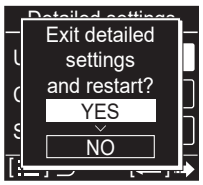
⑤ Select one of the “Set data” in “Table for DC Fan Motor Tap Setting” by pressing the ∨ or ∧ button.

Fig. D



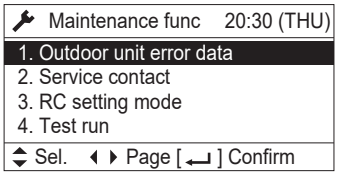
After selecting “Set data”, press the ↵ button.
(If setting continuously, follow the procedures from **Fig. A**.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step ③).

⑥ If the ☰ button is pressed under the display Step ③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.

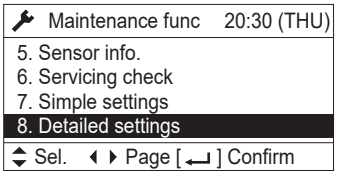


<Procedure of CZ-RTC5B>
Stop the system before performing these steps.

① Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

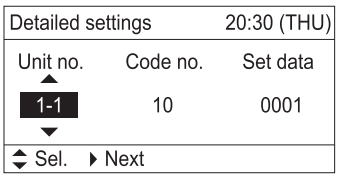


② Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select “8. Detailed settings” on the LCD display and press the [↵] button.

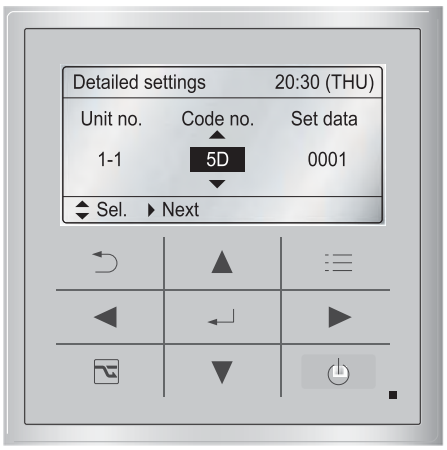


The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the [▼] or [▲] button for changes.

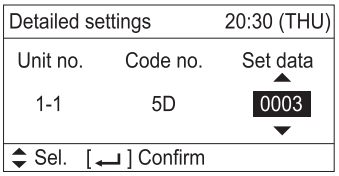


④ Select the “Code no.” by pressing the [◀] or [▶] button.
Change the “Code no.” to “5D” by pressing the [▼] or [▲] button (or keeping it pressed).

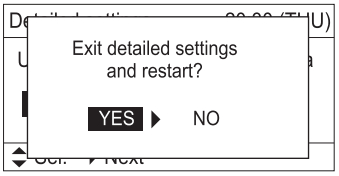


CZ-RTC5B

⑤ Select the “Set data” by pressing the [◀] or [▶] button.
Select one of the “Set data” in “Table for DC Fan Motor Tap Settings” by pressing the [▼] or [▲] button.
Then press the [↵] button.



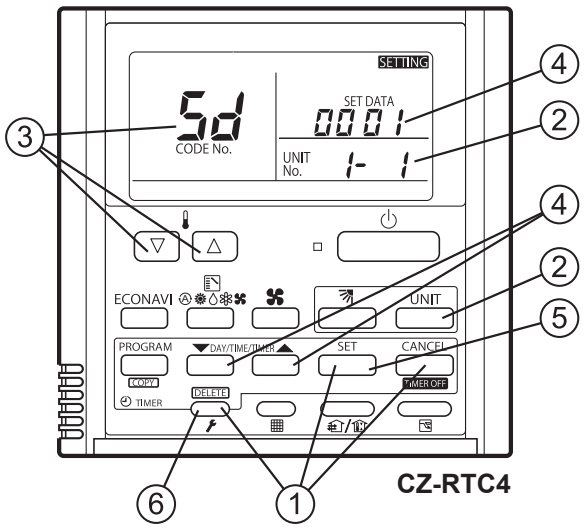
⑥ Press the [↩] button.
The “Exit detailed settings and restart?” (Detailed setting- end) screen appears on the LCD display.
Select “YES” and press the [↵] button.



If you wish to change the selected indoor unit, follow the step ②.

<Procedure of CZ-RTC4>
Stop the system before performing these steps.

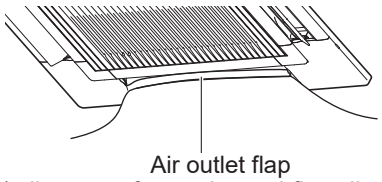
① Press and hold the , SET and CANCEL buttons simultaneously for 4 seconds or longer.
② If group control is in effect, press the UNIT button to set.
At this time, the fan at the indoor unit begins and select the address (unit No.) of the indoor unit operating.
③ Designate the item code 5d by adjusting the Temperature Setting ▽/△ buttons.
④ Press the timer time DAY/ / TIMER buttons to select the desired setting data.
*For item codes and setting data, see “Table for DC FAN Motor Tap Settings” on page 1-11-1-1-15.
⑤ Press the SET button.
(The display stops blinking and remains lit, and setting is completed.)
If you wish to change the selected indoor unit, follow the step ②.
⑥ Press the button to return to normal remote controller display.



CZ-RTC4

4. Setting the Flap Separately

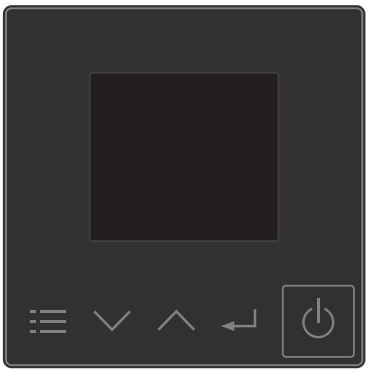
1) The 4-air outlet flap can be adjusted separately during operation. When not adjusted separately, all flaps operate in the same manner.



Air outlet flap
(adjustment for up-down airflow direction)

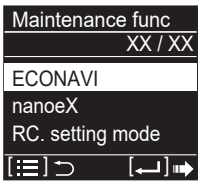
<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.

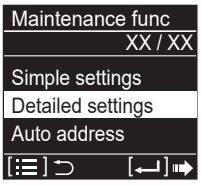


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

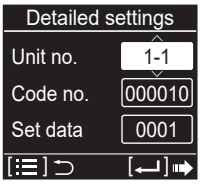


② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step ④.

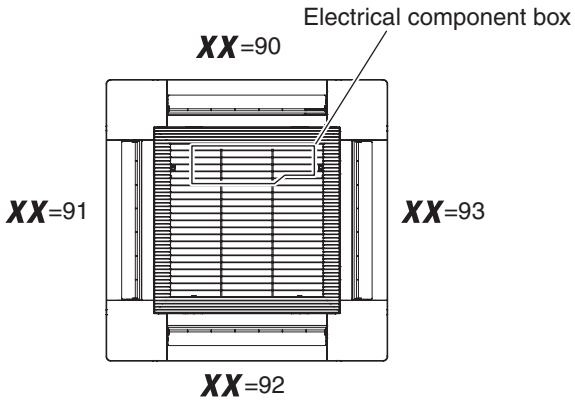


If the ☰ button is pressed, proceed to Step ⑥.

④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

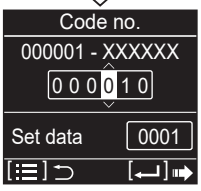
Change the “Code no.” one digit at a time so that it becomes [0000XX] along with the following procedures.





Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Fig. A



Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step ⑤.

Fig. B

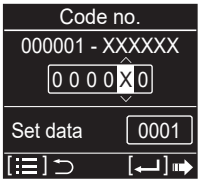
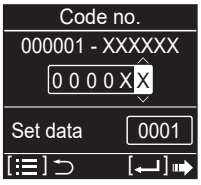


Fig. C

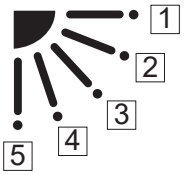


⑤ Select one of the Setting Data “YYYY” by pressing the ▽ or △ button.

* Setting data “ YYYY”

Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

Flap position



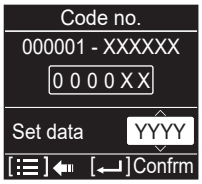


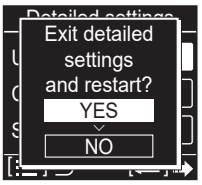
Fig. D

NOTE

The flap swings during the operation under “Setting the Flap Separately”.
At this time, the unselected flaps are moved to the position 1.

After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from **Fig. A** .)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step ③).

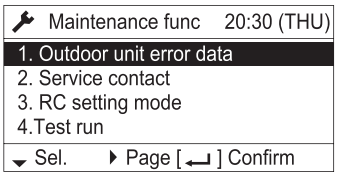
⑥ If the ☰ button is pressed under the display Step ③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button.



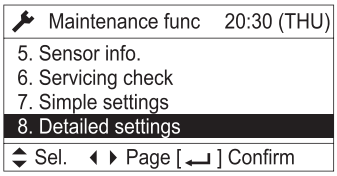
<Procedure of CZ-RTC5B>

Stop the system before performing these steps.

① Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

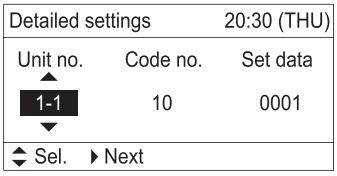


② Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select “8. Detailed settings” on the LCD display and press the [↵] button.

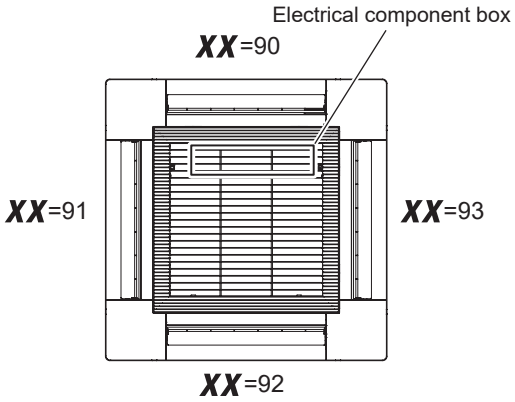


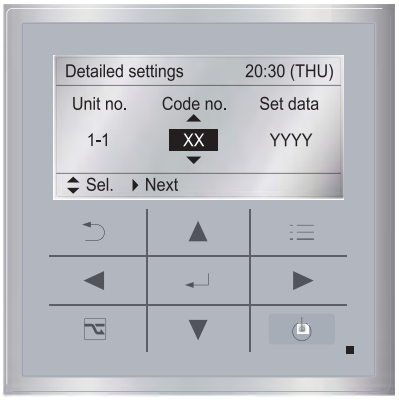
The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the [▼] or [▲] button for changes.



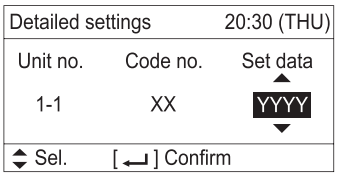
④ Select the “Code no.” by pressing [◀] or [▶] button.
Change the “Code no.” to “**XX**” by pressing the [▼] or [▲] button (or keeping it pressed).



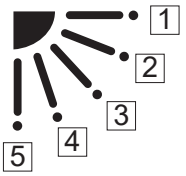


CZ-RTC5B

⑤ Select the “Set data” by pressing the [◀] or [▶] button.
Select one of the Setting Data “YYYY” by pressing the [▼] or [▲] button.
Then press the [↵] button.



Flap position



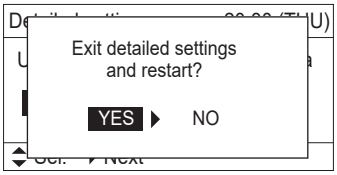
* Setting data “**YYYY**”

Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

NOTE

The flap swings during the operation under “Setting the Flap Separately”.
At this time, the unselected flaps are moved to the position 1.

⑥ Press the [↵] button.
The “Exit detailed settings and restart?” (Detailed setting-end) screen appears on the LCD display.
Select “YES” and press the [↵] button.



If you wish to change the selected indoor unit, follow the step ②.

1

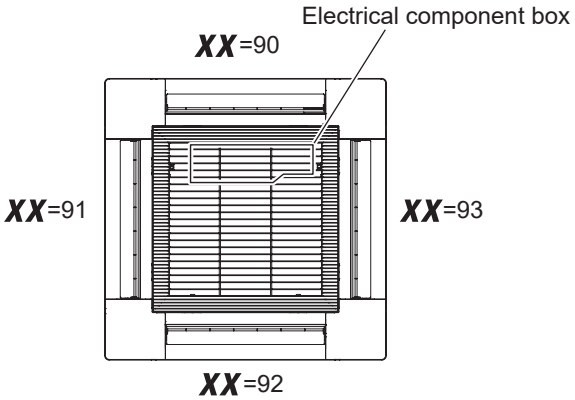
<Procedure of CZ-RTC4>

Stop the system before performing these steps.

① Press and hold the [ ] , [SET] and [CANCEL] buttons simultaneously for 4 seconds or longer.

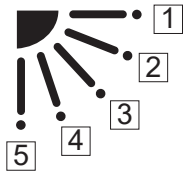
② If group control is in effect, press the [UNIT] button to set.
At this time, the fan at the indoor unit begins and select the address (unit No.) of the indoor unit operating.

③ Designate the item code "***XX***" by adjusting the Temperature Setting [▽]/[△] buttons.



④ Press the timer time [DAY/]/[/TIMER] buttons to select the desired setting data.

Flap position



* Setting data "***YYYY***"

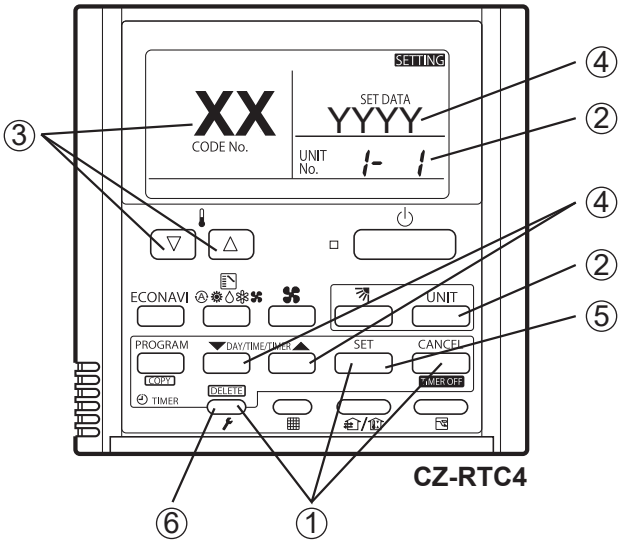
Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

NOTE

The flap swings during the operation under "Setting the Flap Separately".
At this time, the unselected flaps are moved to the position 1.

⑤ Press the [SET] button.
(The display stops blinking and remains lit, and setting is completed.)
If you wish to change the selected indoor unit, follow the step ②.

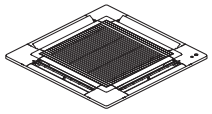
⑥ Press the [ ] button to return to normal remote controller display.



■ Panel for Cassette (ECONAVI type)

CZ-KPU3A, CZ-KPU3AW

Accessories Supplied

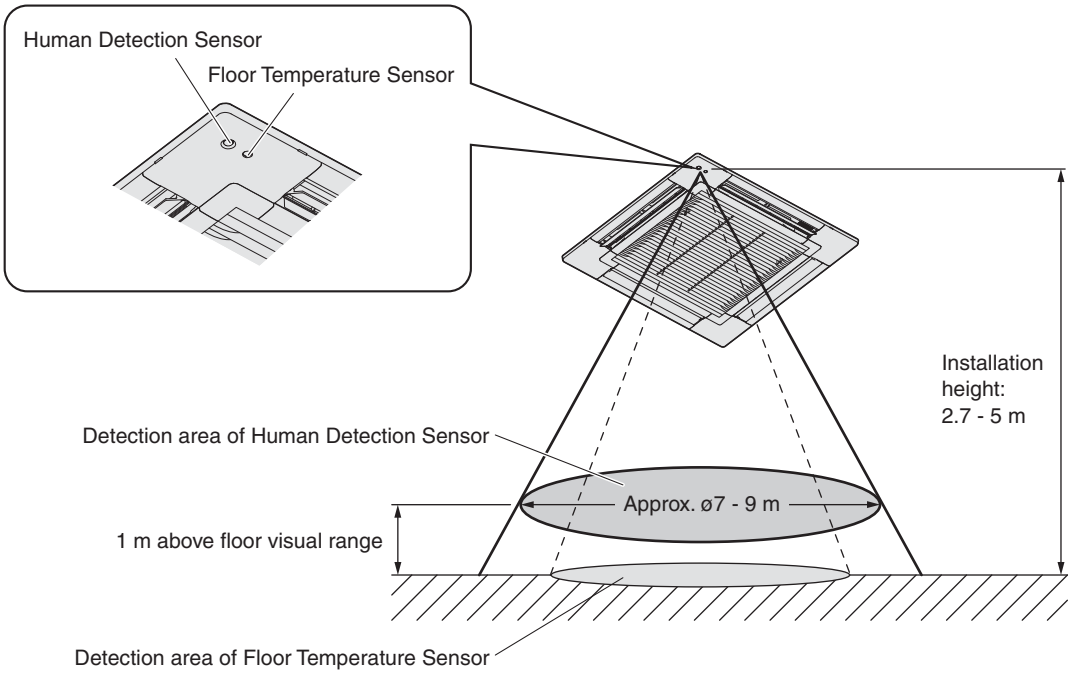
Part Name	Figure	Q'ty	Remarks
ECONAVI panel		1	ECONAVI type
Screw		4	4 × 12
Operating Instructions		1	
Installation Instructions		1	

Since the accessories need for installation work, do not dispose of them until the unit of work is complete.

■ CAUTION ON INSTALLATION

● Criteria for Human Detection Area

- A place where the blind angle of the Human Detection Sensor cannot detect human. Install the panel for cassette (ECONAVI type) so that human motion can be detected.
- If there is a heat source or cooling unit in the detection area, the sensor cannot occasionally detect properly.
- The Floor Temperature Sensor detects within the sensor area of Human Detection Sensor.



Criteria of human detection sensor area
Installation height of indoor unit 2.7 m : Approx. ø7 m
Installation height of indoor unit 4 m : Approx. ø8 m
Installation height of indoor unit 5 m : Approx. ø9 m

Do not install at the following locations. (Cause of trouble and malfunction)

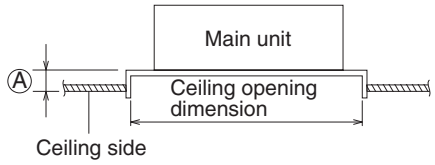
- Humid, oily, frequent vibration
- Direct sunlight and near by heat source
- Frost

● Preparation for Panel for Cassette Installation

(1) Checking the unit position

1) Check that the ceiling hole is within this range:
860 × 860 mm to 910 × 910 mm

2) Confirm that the position of the indoor unit and the ceiling as shown in the diagram. If the positions of the ceiling surface and unit do not match, air leakage, water leakage, flap operation failure, or other problems may occur.

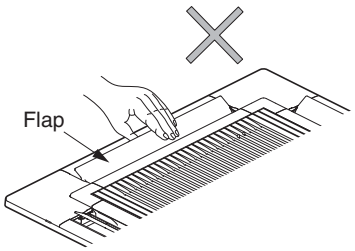


Ⓐ : Be sure to necessarily make a space within the range of 12 ~ 17 mm.

If not within this range, malfunction or other trouble may occur.

CAUTION

- **Never place the panel face-down. Either hang it vertically or place it on top of a projecting object. Placing it face-down will damage the surface.**
- **Do not touch the flap or apply force to it. (This may cause flap malfunction.)**

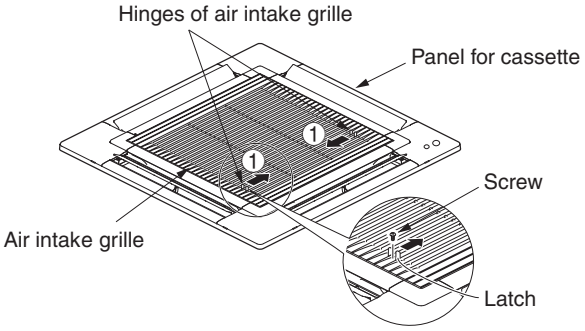


● How to Install the Panel for Cassette

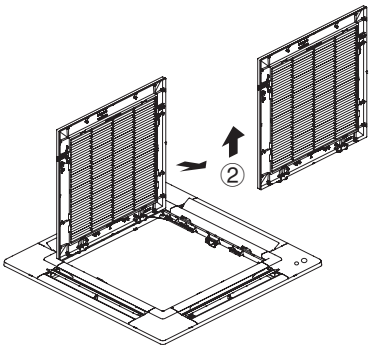
(1) Removing the air intake grille

1) Remove the 2 screws on the latch of the air intake grille. (Reattach the air intake grille after installation of the panel for cassette.)

2) Slide the air intake grille catches in the direction shown by the arrows ① to open the grille.

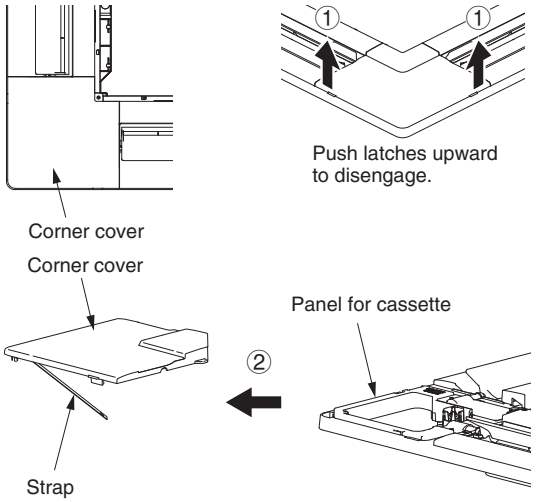


3) With the air intake grille opened, remove the grille hinge from the panel for cassette by sliding it in the direction shown by the arrow ②. (Reattach the air intake grille after installation of the panel for cassette.)



(2) Removing the corner cover

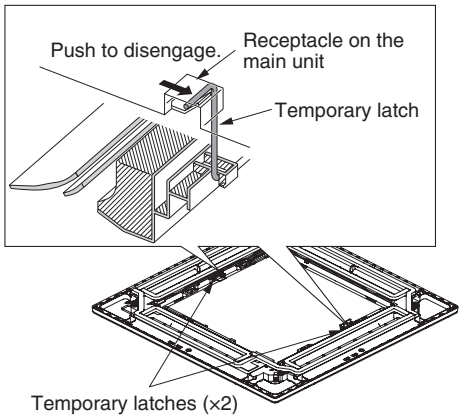
Push the latches on the corner cover in the direction of the arrow ① and remove them by sliding in the direction of the arrow ②.



(3) Installing the panel for cassette
The power must be turned ON in order to change the flap angle. (Do not attempt to move the flap by hand. Doing so may damage the flap.)

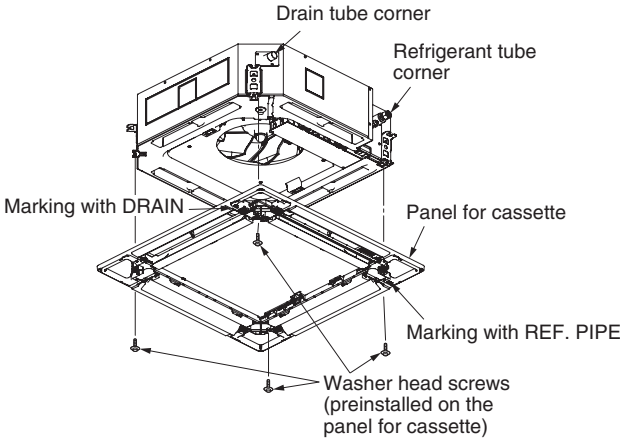
1) Hang the temporary latches on the inside of the panel for cassette to the receptacle on the unit to temporarily attach the panel for cassette in place.

- The panel for cassette must be installed in the correct direction relative to the unit. Align the REF. PIPE and DRAIN marks on the panel for cassette corner with the correct positions on the unit.
- When removing the panel for cassette, push the temporary latches outward while holding the panel for cassette.



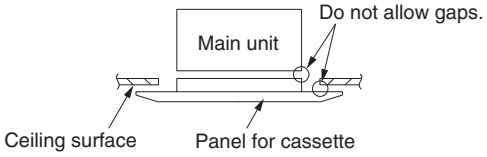
2) Align the panel installation holes and the unit screw holes.

3) Tighten the provided washer head screws at the 4 panel installation locations so that the panel is attached tightly to the unit.

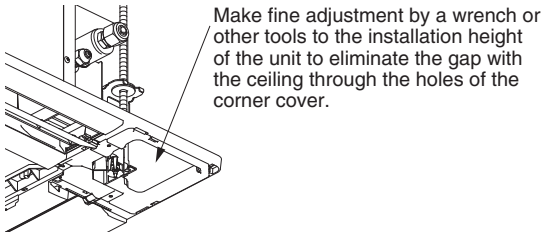


4) Check that the panel is attached tightly to the ceiling.

- At this time, make sure that there are no gaps between the unit and the panel for cassette, or between the panel for cassette and the ceiling surface.

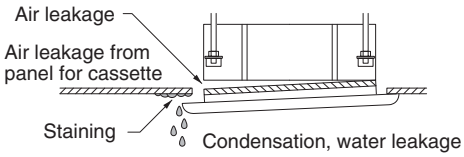


- If there is a gap between the panel and the ceiling, leave the panel for cassette attached and make fine adjustments to the installation height of the unit to eliminate the gap with the ceiling.

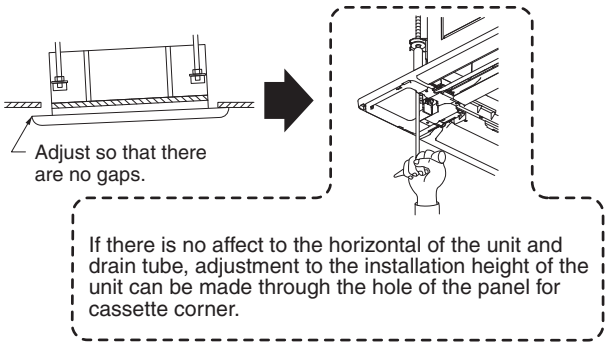


CAUTION

- **If the screws are not sufficiently tightened, trouble such as that shown in the figure below may occur. Be sure to tighten the screws securely.**



- **If a gap remains between the ceiling surface and the panel for cassette even after the screws are tightened, adjust the height of the unit again.**



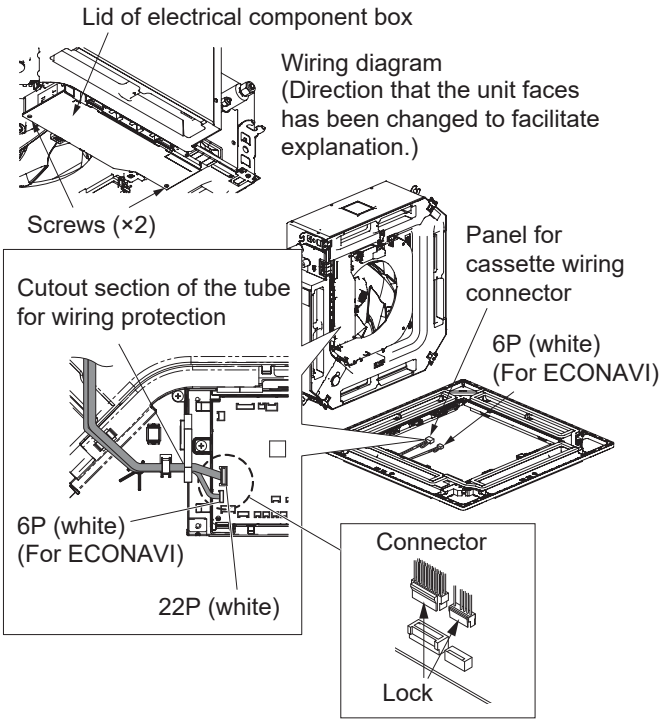
(4) Wiring the Panel for Cassette

1) Open the cover of the electrical component box for the indoor unit control PCB.

2) Connect the 22P connector (white) and 6P connector (white) from the panel for cassette to the connector on the indoor unit control PCB in the unit electrical component box.

In this case, expose the cutout section of the tube for the wiring protection to the outside from the electrical component box and fix it with the clamper attached to the electrical component box.

- **Insert connector lock facing PCB edge until it is locked in place. (If not connected completely, the Auto Flap will not operate and "P09" is displayed on the remote controller. When the connector plugged in the wrong direction, parts on the PCB may be damaged.)**
- **Check that the wiring connector is not caught between the electrical component box and the cover.**
- **Check that the wiring connector is not caught between the unit and the panel for cassette.**

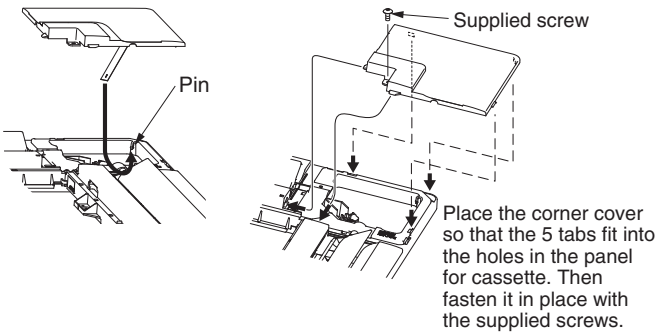


(5) How to Attach the Corner & Air Intake Grille

A. Attaching the corner cover

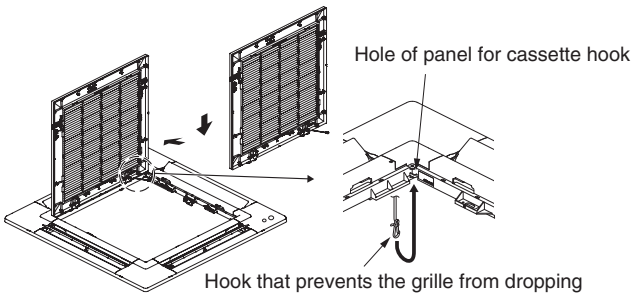
1) Check that the safety strap from the corner cover is fastened to the panel for cassette pin, as shown in the figure below.

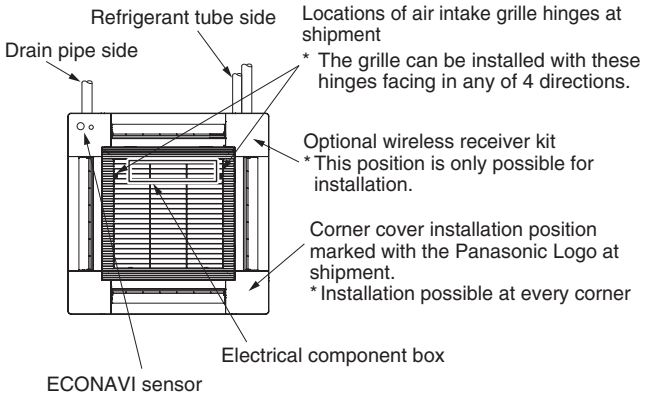
2) Use the supplied screws to attach the corner cover to the panel for cassette.

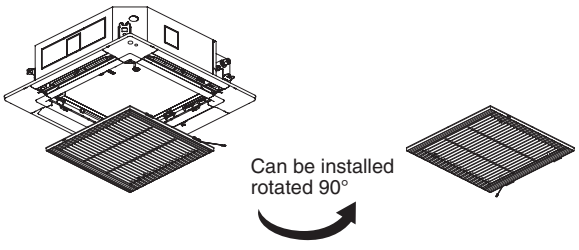


B. Attaching the air intake grille

- To install the air intake grille, follow the steps for "Removing the grille" in the reverse order. By rotating the air intake grille, it is possible to attach the grille onto the panel for cassette from any of 4 directions. Coordinate the directions of the air intake grilles when installing multiple units, and change the directions according to customer's requests.
- When attaching the air intake grille, be careful that the flap lead wire does not become caught.
- Be sure to attach the safety strap that prevents the air intake grille from dropping off to the panel for cassette unit as shown in the figure below.
- With this panel for cassette, the directions of the air intake grille lattices when installing multiple units, and the position of the label showing the company name on the corner panel, can be changed according to customer's requests, as shown in the figure below. However, the wireless signal receiver can only be installed at the refrigerant-tubing corner of the ceiling unit.







● Others

1. Checking After Installation
   1) Check that there are no gaps between the unit and the panel for cassette, or between the panel for cassette and the ceiling surface.
      * Gaps may cause water leakage and condensation.
   2) Check that the wiring is securely connected.
      * If it is not securely connected, the auto flap will not operate.
      ("P09" is displayed on the remote controller.)
      In addition, the water leakage and condensation may occur.
2. Operating the Wireless Remote Controller
   See "8. HOW TO INSTALL THE WIRELESS REMOTE CONTROLLER RECEIVER".
3. Selecting DC Fan Motor Tap (4-Way Cassette)
   Check the optional parts accordingly in the following table.

Table for DC Fan Motor Tap Settings*1

Setting No.	Remote controller setting data Item code 5d	Contents & optional parts name
(1)	0001	Air-flow blocking kit (for 3-way air flow)*2
		Air-flow blocking kit (when a duct is connected.)
		High-ceiling setting 1*2
(3)	0003	High-ceiling setting 2*2
(6)	0006	Air-flow blocking kit (for 2-way air flow)*2

*1 When using optional parts in different setting No. in combination with multiple units, conform it to the larger setting No.

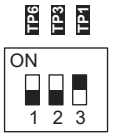
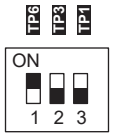
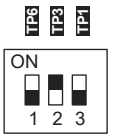
*2 Ceiling height (m)

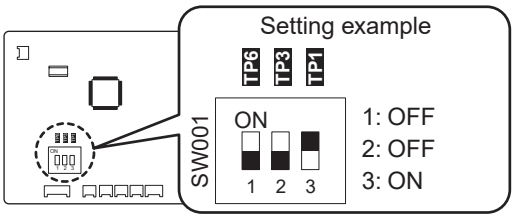
Indoor unit type	S-3650PU3E	S-6071PU3E	S-1014PU3E
Standard (factory setting)	2.7	3.0	3.6
High-ceiling setting 1	3.2	3.3	4.3
High-ceiling setting 2	3.5	3.6	5.0
Air-flow blocking kit (for 3-way air flow)	3.8	3.8	4.7
Air-flow blocking kit (for 2-way air flow)	4.2	4.2	5.0

<Procedure of selling on the P.C. Board>
Stop the system before performing these steps.

① Open the electrical component box cover, then check the indoor unit control PCB.

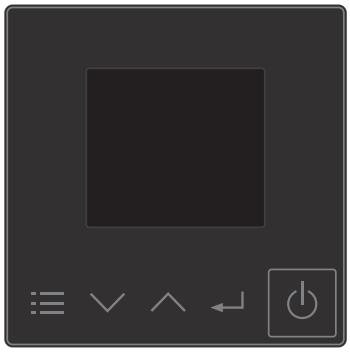
② Change the DIP switch on the indoor unit control PCB in accordance with the setting number which was confirmed in "Table for DC Fan Motor Tap Settings".

Setting No.	DIP switch	Setting No.	DIP switch
(1)		(6)	
(3)			



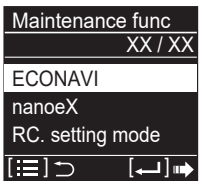
Indoor unit control PCB

<Procedure of CZ-RTC6 series>
Stop the system before performing these steps.

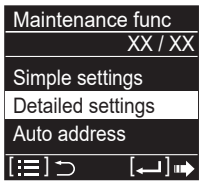


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

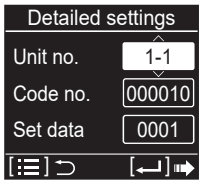


② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the ∨ or ∧ button.



After selecting “Unit no.”, press the ↵ button and proceed to Step ④.
If the ☰ button is pressed, proceed to Step ⑥.

④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

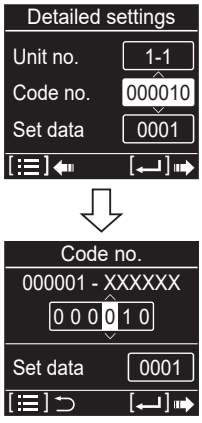
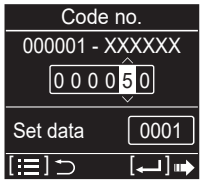


Fig. A

Change the “Code no.” one digit at a time so that it becomes [00005D] along with the following procedures.

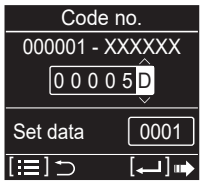
Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Fig. B



Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

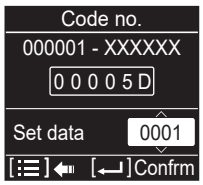
Fig. C



Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step ⑤.

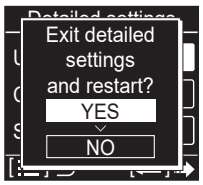
⑤ Select one of the “Set data” in “Table for DC Fan Motor Tap Setting” by pressing the ∨ or ∧ button.

Fig. D



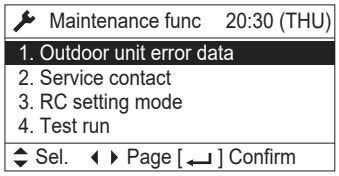
After selecting “Set data”, press the ↵ button.
(If setting continuously, follow the procedures from **Fig. A**.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step ③).

⑥ If the ☰ button is pressed under the display Step ③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.

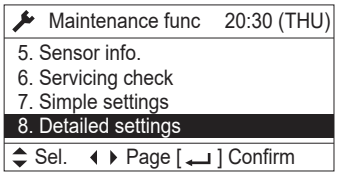


<Procedure of CZ-RTC5B>
Stop the system before performing these steps.

① Keep pressing the ↩ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

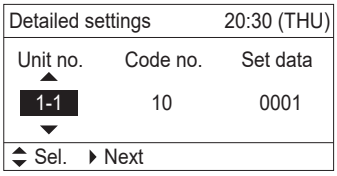


② Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “8. Detailed settings” on the LCD display and press the ↵ button.

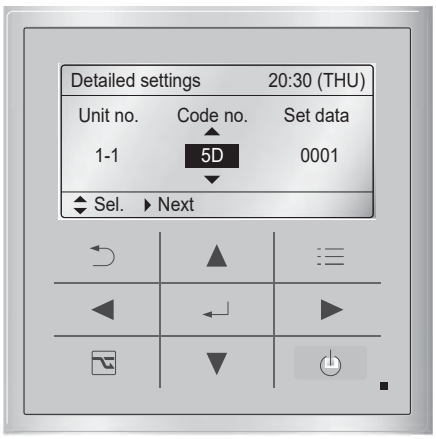


The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing ▼ or ▲ button for changes.

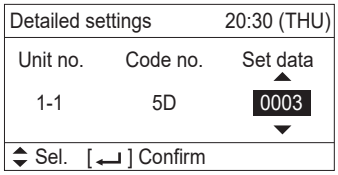


④ Select the “Code no.” by pressing ◀ or ▶ button.
Change the “Code no.” to “5D” by pressing ▼ or ▲ button (or keeping it pressed).

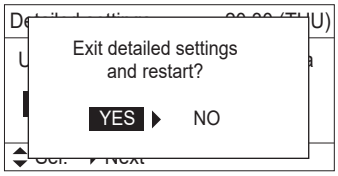


CZ-RTC5B

⑤ Select the “Set data” by pressing the ◀ or ▶ button.
Select one of the “Set data” in “Table for DC Fan Motor Tap Settings” by pressing the ▼ or ▲ button.
Then press the ↵ button.



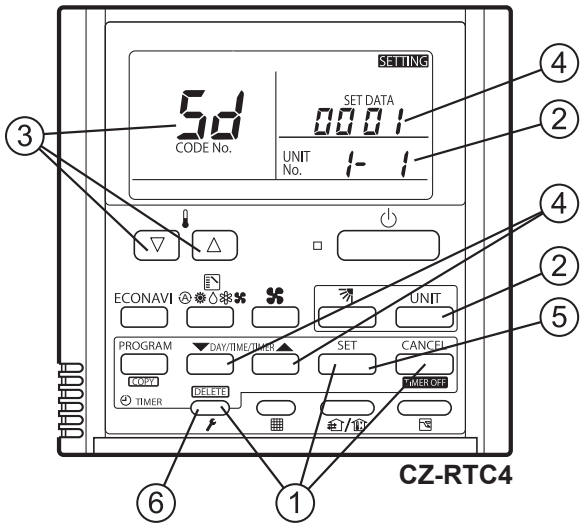
⑥ Press the ↩ button.
The “Exit detailed settings and restart?” (Detailed setting- end) screen appears on the LCD display.
Select “YES” and press the ↵ button.



If you wish to change the selected indoor unit, follow the step ②.

<Procedure of CZ-RTC4>
Stop the system before performing these steps.

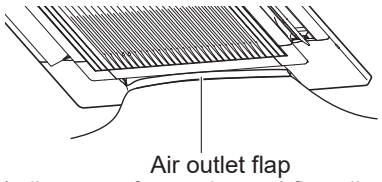
① Press and hold the , SET and CANCEL buttons simultaneously for 4 seconds or longer.
② If group control is in effect, press the UNIT button to set.
At this time, the fan at the indoor unit begins and select the address (unit No.) of the indoor unit operating.
③ Designate the item code 5d by adjusting the Temperature Setting ▽/△ buttons.
④ Press the timer time DAY/ / TIMER buttons to select the desired setting data.
*For item codes and setting data, see “Table for DC Fan Motor Tap Settings” on page 1-11-1-1-27.
⑤ Press the SET button.
(The display stops blinking and remains lit, and setting is completed.)
If you wish to change the selected indoor unit, follow the step ②.
⑥ Press the button to return to normal remote controller display.



CZ-RTC4

4. Setting the Flap Separately

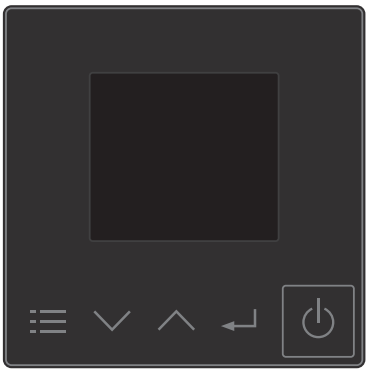
1) The 4-air outlet flap can be adjusted separately during operation. When not adjusted separately, all flaps operate in the same manner.



Air outlet flap
(adjustment for up-down airflow direction)

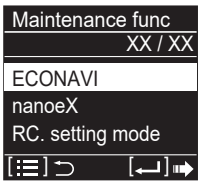
<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.

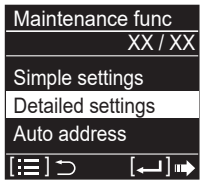


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.



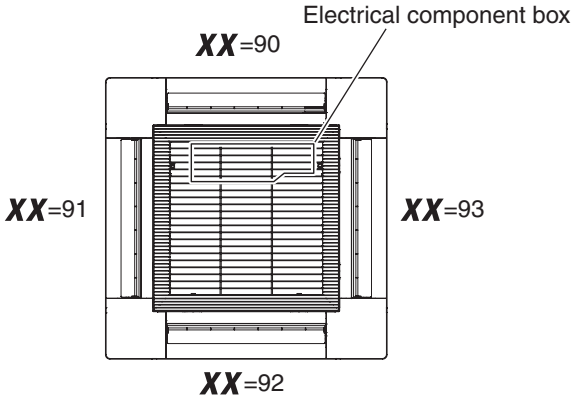
③ Select the “Unit no.” by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step ④.

If the ☰ button is pressed, proceed to Step ⑥.



④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

Change the “Code no.” one digit at a time so that it becomes [0000XX] along with the following procedures.



Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Fig. A

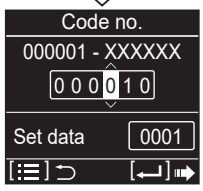
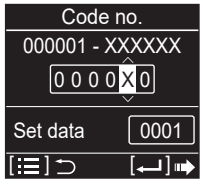
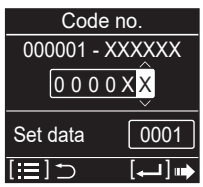


Fig. B



Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step ⑤.

Fig. C

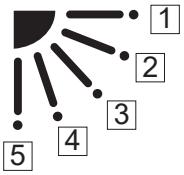


⑤ Select one of the Setting Data “YYYY” by pressing the ▽ or △ button.

* Setting data “ YYYY”

Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

Flap position



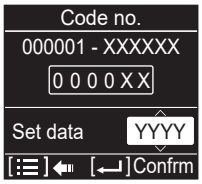


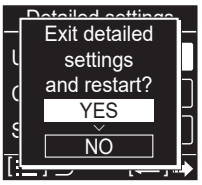
Fig. D

NOTE

The flap swings during the operation under “Setting the Flap Separately”.
At this time, the unselected flaps are moved to the position 1.

After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from **Fig. A** .)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step ③).

⑥ If the ☰ button is pressed under the display Step ③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button.



<Procedure of CZ-RTC5B>
Stop the system before performing these steps.

① Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
Sel. ◀ ▶ Page [↵] Confirm

② Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select “8. Detailed settings” on the LCD display and press the [↵] button.

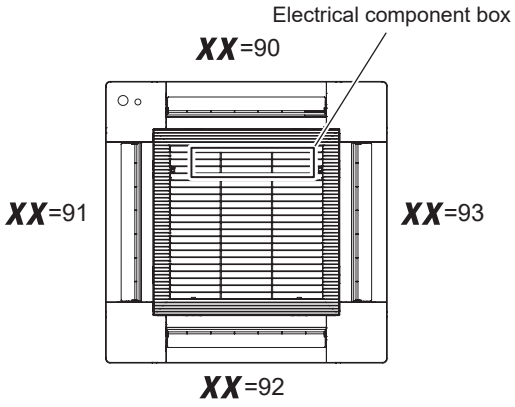
Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
Sel. ◀ ▶ Page [↵] Confirm

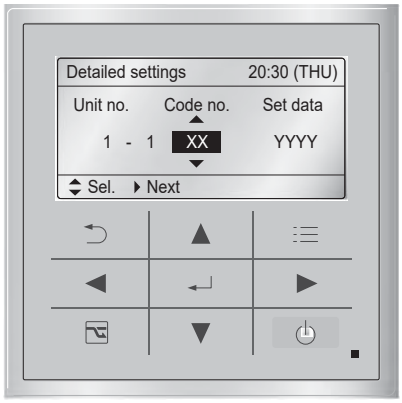
The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the [▼] or [▲] button for changes.

Detailed settings 20:30 (THU)		
Unit no.	Code no.	Set data
1-1	10	0001
Sel. ▶ Next		

④ Select the “Code no.” by pressing [◀] or [▶] button.
Change the “Code no.” to “***XX***” by pressing the [▼] or [▲] button (or keeping it pressed).



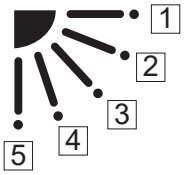


CZ-RTC5B

⑤ Select the “Set data” by pressing the [◀] or [▶] button.
Select one of the Setting Data “YYYY” by pressing the [▼] or [▲] button.
Then press the [↵] button.

Detailed settings 20:30 (THU)		
Unit no.	Code no.	Set data
1-1	XX	YYYY
Sel. [↵] Confirm		

Flap position

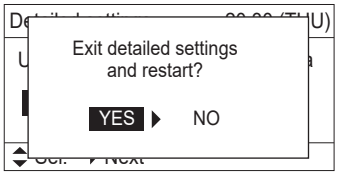


* Setting data “***YYYY***”

Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

NOTE
The flap swings during the operation under “Setting the Flap Separately”.
At this time, the unselected flaps are moved to the position 1.

⑥ Press the [↵] button.
The “Exit detailed settings and restart?” (Detailed setting- end) screen appears on the LCD display.
Select “YES” and press the [↵] button.



If you wish to change the selected indoor unit, follow the step ②.

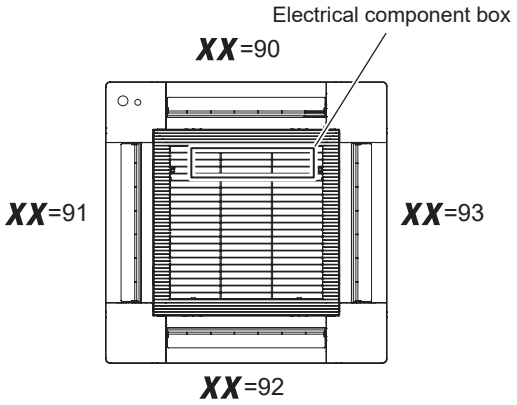
<Procedure of CZ-RTC4>

Stop the system before performing these steps.

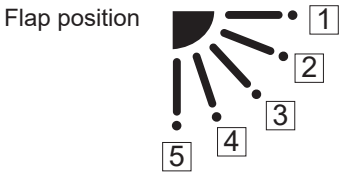
① Press and hold the , SET and CANCEL buttons simultaneously for 4 seconds or longer.

② If group control is in effect, press the UNIT button to set.
At this time, the fan at the indoor unit begins and select the address (unit No.) of the indoor unit operating.

③ Designate the item code "**XX**" by adjusting the Temperature Setting ▽/△ buttons.



④ Press the timer time DAY/ /TIMER buttons to select the desired setting data.



* Setting data "**YYYY**"

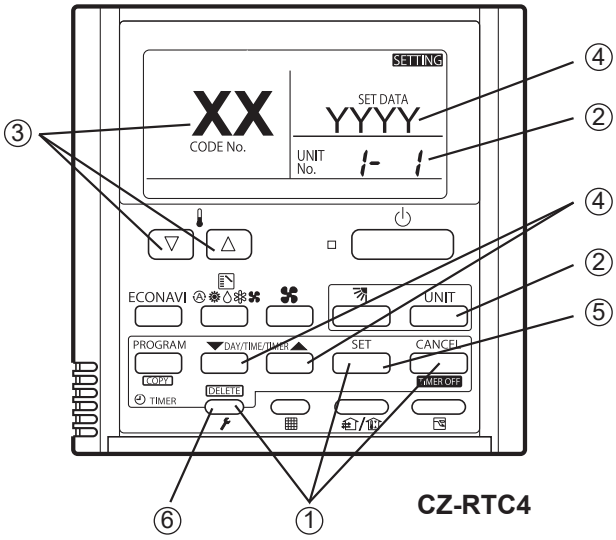
Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

NOTE

The flap swings during the operation under "Setting the Flap Separately".
At this time, the unselected flaps are moved to the position 1.

⑤ Press the SET button.
(The display stops blinking and remains lit, and setting is completed.)
If you wish to change the selected indoor unit, follow the step ②.

⑥ Press the button to return to normal remote controller display.

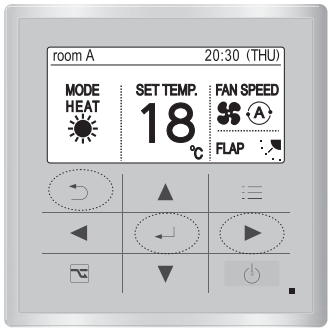


CZ-RTC4

■ ECONAVI SYSTEM SETTING

Change the settings of main and sub indoor units to correspond to the ECONAVI system function.
For the benefit of using the ECONAVI function, the main indoor unit should be provided with the ECONAVI function.

1. Press three buttons.
   Keep pressing the [↩], [↵] and [▶] buttons simultaneously for more than 4 seconds.
   The “Maintenance func” menu appears on the screen.



2. Select “0. ECONAVI info.” from the menu command.
   By pressing the [▼] / [▲] buttons, select “0. ECONAVI info.” and press the [↵] button.

Maintenance func 20:30 (THU)
0. ECONAVI info.
1. Outdoor unit error data
2. Service contact
3. RC. setting mode
▼ Sel. ▶ Page [↵] Confirm

3. Select “System settings” from the menu command.
   By pressing the [▼] / [▲] buttons, select “System settings” and press the [↵] button.

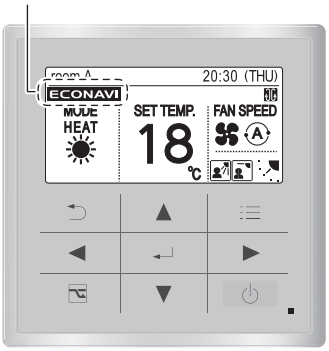
ECONAVI info. 20:30 (THU)
Sensor unit info.
System settings
Status info.
Error found
▲▼ Sel. [↵] Check

4. Start settings.
   By pressing the [◀] / [▶] buttons, select “YES” and press the [↵] button.

ECONAVI sys. set. 20:30 (THU)
Start setup?
YES ▶ NO
▶ Sel. [↵] Confirm

5. When finished settings, the system restarts automatically.
6. Check whether the ECONAVI function is set.
   ECONAVI is displayed on the screen.
   If the display is not operated, press the [⏻] button and set it in operating mode.
   If operation is in fan mode, **ECONAVI** is not displayed. Set in any operating mode other than fan mode.

“ **ECONAVI** ” is displayed when setting the ECONAVI function.



NOTE

- After operating Step 2, the following messages may occasionally appear on the screen.

Display message	Contents
Disabled in default mode.	After a while, select “0. ECONAVI info.” again. If no status changes even after 10 minutes, make auto address setting and then select “0. ECONAVI info.”.

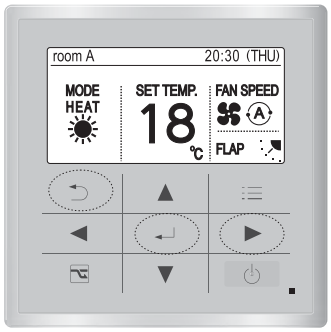
- After operating Step 3, the following messages may occasionally appear on the screen.

Display message	Contents
Setup is not required.	The main indoor unit has already been provided with the ECONAVI function. So, it works right out of the box.
Main indoor unit is not found.	The power of indoor unit may possibly shut down. Check the power supply of indoor unit.
Indoor unit with ECONAVI is not found.	Since all indoor units in the group control are not available for the ECONAVI function, the ECONAVI function cannot be used.

■ ECONAVI TEST OPERATION

Preparation: Refer to the manuals of the indoor unit and turn on the main power switch in advance.
Human detection cannot be made for approx. 90 seconds when switched on the power because the human detection sensor is set in initial setup.

1. Press three buttons.
   Keep pressing the [↩], [↵] and [▶] buttons simultaneously for more than 4 seconds.
   The “Maintenance func” menu appears on the screen.



2. Select “0. ECONAVI info.” from the menu command.
   By pressing the [▼] / [▲] buttons, select “0. ECONAVI info.” and press the [↵] button.

Maintenance func 20:30 (THU)
0. ECONAVI info.
1. Outdoor unit error data
2. Service contact
3. RC. setting mode
Sel. Page [↵] Confirm

3. Select “Error found” from the menu command.
   By pressing the [▼] / [▲] buttons, select “Error found” and press the [↵] button.

ECONAVI info. 20:30 (THU)
Sensor unit info.
System settings
Status info.
Error found
Sel. [↵] Check

4. Check the sensor status shows “Normal”.
   (By pressing the [▼] / [▲] buttons, the status of each indoor unit can be scrolled on the screen.)
   The sensor status of all indoor units are displayed.
   - “Normal”: The sensor on the panel for cassette (ECONAVI type) works normally.
   - “Preparing”: The sensor on the panel for cassette (ECONAVI type) is set in initial setup.
     Confirm that “Normal” appears within 90 seconds.
   - “Unsupported”: Indoor units not available for ECONAVI function.

Error found	20:30 (THU)
Unit no.	Status
1 - 1	Normal
1 - 2	Normal
Sensor 1	Not connected
Scroll	

The test run procedure described above is over. If any display appears other than “Normal” or “Preparing” even though the ECONAVI panel is connected, follow the Step 5 below.

* “1-1”, “1-2” mean indoor unit No. If the indoor unit is without ECONAVI panel, “Not connected” appears.
* “Sensor 1” means optional ECONAVI sensor (CZ-CENSC1). If not connected, “Not connected” appears besides “Sensor 1” on the screen.

5. If the sensor status shows other than “Normal”, “Preparing”,
   If the sensor status shows “Error” or “Not connected” although the panel for cassette (ECONAVI type) is connected, the following symptom may have occurred.
   Specify the applicable indoor unit and check the sensor.
   “Error”: The sensor may possibly be damaged.
   ”Not connected”: The wiring between the indoor unit and sensor may possibly be disconnected.
   * The specified indoor unit can be confirmed by the flap operation.
     Confirmation method:
     ① Finish the maintenance function.
     Press the [☰] button to show the maintenance function display and then press the [↵] button.
     ② Operate the flap.
     By pressing the [☰] button, select the applicable “Indoor Unit No.” in the list of “2. FLAP” and then make flap setting. The indoor unit which responds to the flap setting becomes available.

   When the indoor unit is specified, turn off the main power switch and disconnect the connector of sensor wiring from the PCB. Then reconnect it. Turn on the main power switch and repeat the Steps 1 to 4 described above. Confirm the display shows “Error found”. If the display shows “Error” or “Not connected” on the screen again, it is necessary to replace the panel for cassette (ECONAVI type) with a new one.

■ EXTERNAL DEVICE INTERLOCK

Example of wiring:
This is an example of the combination systems which extract optional output signal by the service wire and relay (field supply).
When actuating the external device interlock, use the thermostat signal.

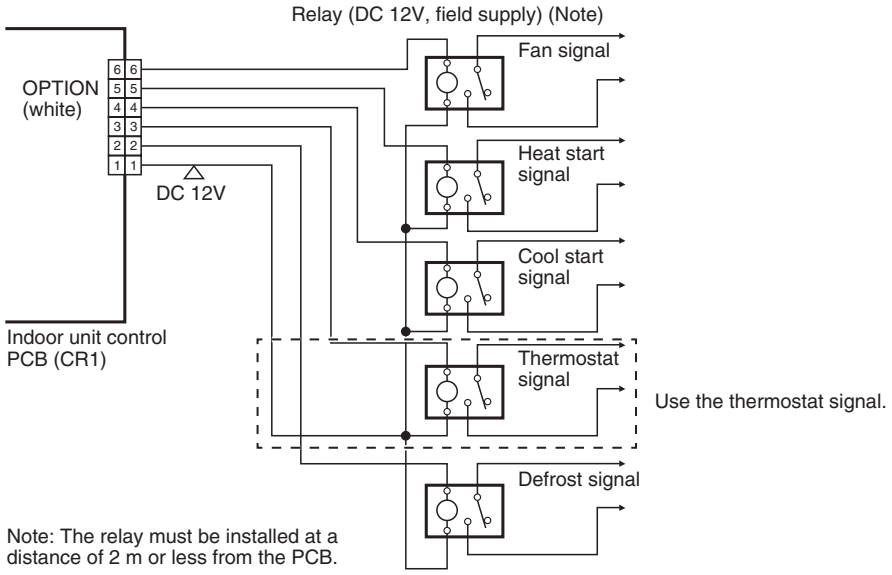
OPTION Connector (CN060) Output external signals



PAW-OCT: Panasonic has developed an optional accessory (consisting of plug + wires) called PAW-OCT to enable an easy connection to this OPTION Connector (CN060).

With the combination of the T10 and the OPTION Connector (CN060) an external control of the I_U is possible!

6P (WHITE): OUTPUTS EXTERNAL SIGNALS AS SHOWN IN THE FIGURE BELOW.



NOTE

- The external output signal from the air conditioner is supplied for the purpose of controlling the external devices. If the air conditioner does not operate, take measures that the movement of external connecting devices can transfer to the safety zone in advance.
- The external output signal from the air conditioner is turned off when the blackout occurs. If any special considerations are needed in case of blackout, provide an external circuit.

■ CHECKLIST AFTER INSTALLATION WORK

Work List	No.	Content	Check ☑	Possibility of Failure & Checkpoint
Installation	1	Are the indoor units installed following the content on page 1-11-1-1-1 "■SELECTING THE INSTALLATION SITE"?	☐	There is a possibility of light injure or loss of property.
Tubing & Wiring	2	In the case of multiple installation: Is there a wrong tubing connection with another system?	☐	The unit is inoperated or the refrigerant flows into the inoperative unit and the leakage is expected. Check if there is a wrong tubing or wiring connection with another system.
	3	In the case of multiple installation: Is there a wrong wiring connection with another system?	☐	
	4	Is the earth leakage circuit breaker (all-pole switching function provided) installed?	☐	Power failure or short circuit may cause electric shock or fire. Check installation work and ground wire work.
	5	Is there any wrong installation of optional parts or wrong wiring?	☐	
	6	Was the ground wire work performed?	☐	
	7	Are there any wrong power supply wiring, wrong connection wire, wrong signal wire or loose screw?	☐	
	8	Is the thickness of wire in accordance with rule?	☐	
	9	Is the power-supply voltage equal to the nameplate of the unit?	☐	
	10	Was the check of the airtight test, flared tube fitting and gas leakage on the welded portion performed?	☐	If the gas leakage occurs, the unit quality not only becomes inferior but affects environment. Repair it as quickly as possible.
Drain Check	11	Has the adhesive been applied to the drain connecting portion (resin portion) of the indoor unit?	☐	The resin portion cracks after a few months and it may cause water drain.
	12	Is there water leakage?	☐	Since there is a possibility of water drain, repair the drain pipe if the drain failure or water drain occurs.
	13	Indoor unit drain pipe has a downward gradient (1/100 or more) by rule. Is the drain water flowing smoothly?	☐	
Heat Insulation	14	Was the heat insulation work at a suitable location including the flared tube fitting (refrigerant tube & drain pipe) performed properly?	☐	The quality of unit not only becomes inferior but there is a possibility of the water drain. So, perform the heat insulation work properly.
Optional Parts	15	Was the short-circuit connector connected or the fan tap changed when installing the air-blocking material?	☐	The discharge temperature decreases in cooling mode according to the reduction of air volume and there is a possibility of dew drops. Be sure to change settings.
Test Run	16	Did the abnormal sound occur?	☐	Check if there is a fan contact or distortion of the indoor unit.
	17	Did the cool and warm airflow discharge from the indoor unit?	☐	Check if the unit does not operate or there is a wrong tubing or wiring connection with another system.

■ APPENDIX

● Care and Cleaning

WARNING

- **For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.**
- **Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard.**

Air intake and outlet side (Indoor unit)

Clean the air intake and outlet side of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.

If these parts are stained, use a clean cloth moistened with water. When cleaning the air outlet side, be careful not to force the vanes out of place.

CAUTION

- **Never use solvents or harsh chemicals when cleaning the indoor unit. Do not wipe plastic parts using very hot water.**
- **Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.**
- **The internal coil and other components of outdoor unit must be cleaned regularly. Consult your dealer or service center.**

Air filter

The air filter collects dust and other particles from the air and should be cleaned at regular intervals or when the filter indication (▦) on the display of the remote controller (wired type) shows that the filter needs cleaning. If the filter gets blocked, the efficiency of the air conditioner drops greatly.

Type	U3
Period	6 months

- **After Cleaning**

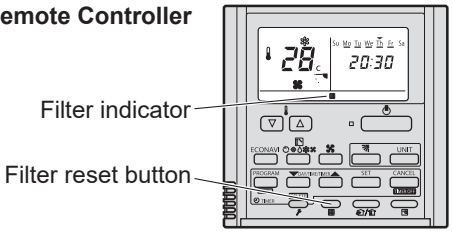
  1. After the air filter is cleaned, reinstall it in its original position.

     Be sure to reinstall in reverse order.

  2. [In the case of Timer Remote Controller]

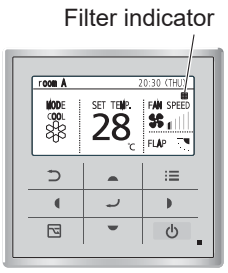
     Press the Filter reset button.
     The ▦ (Filter) indicator on the display goes out.

Timer Remote Controller



[In the case of High-spec Wired Remote Controller and Wired Remote Controller]
Refer to the Operating Instructions attached to the optional High-spec Wired Remote Controller or optional Wired Remote Controller.

High-spec Wired Remote Controller



Wired Remote Controller



NOTE

The frequency with which the filter should be cleaned depends on the environment in which the unit is used.
Clean the filter frequently for best performance in the area of dusty or oil spots regardless of filter status.

<How to clean the filter>

1. Remove the air filter from the air intake grille.
2. Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, and dry it.

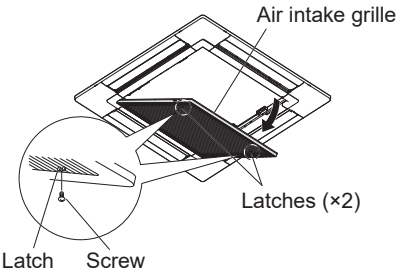
<How to remove the filter>
4-Way Cassette Type :

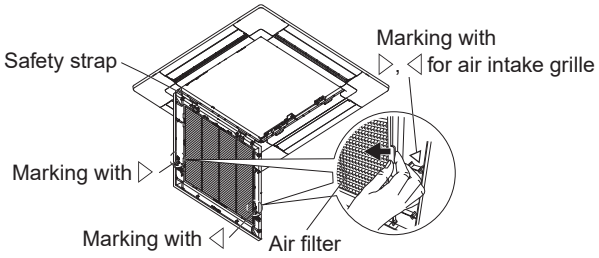
1. Use a screwdriver to remove the bolt screw on each side for the two latches. (Be sure to reattach the two bolt screws after cleaning.)
2. Slide the latches of the air intake grille in the direction of the inside to open the grille.
3. The air intake grille opens downward.

CAUTION

- **When cleaning the air filter, never remove the safety strap. If it is necessary to remove it for servicing and maintenance inside, be sure to reinstall the safety strap securely (hook on the grille side) after the work.**
- **When the filter has been removed, rotating parts (such as the fan), electrically charged areas, etc. will be exposed in the unit's opening. Bear in mind the dangers that these parts and areas pose, and proceed with the work carefully.**

4. Push the side of the air filter marked with the indication arrow ▽ and pull it toward you. The air filter will be disengaged.





CAUTION

- **Certain metal edges and the condenser fins are sharp and may cause injury if handled improperly; special care should be taken when you clean these parts.**
- **Periodically check the outdoor unit to see if the air outlet or air intake is clogged with dirt or soot.**
- **The internal coil and other components must also be cleaned periodically. Consult your dealer or service center.**

Care: After a prolonged idle period

Check the indoor and outdoor unit air intakes and outlets for blockage; if there is a blockage, remove it.

Care: Before a prolonged idle period

- Operate the fan for half a day to dry out the inside.
- Disconnect the power supply and also turn off the circuit breaker.
- Clean the air filter and replace it in its original position.
- Outdoor unit internal components must be checked and cleaned periodically. Contact your local dealer for this service.

● Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service. If it still does not work properly, contact your dealer or a service center.

Indoor unit

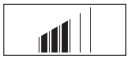
Symptom		Cause
Noise	Sound like streaming water during operation or after operation	• Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
	Cracking noise during operation or when operation stops.	Cracking sound due to temperature changes of parts
Odor	Discharged air is smelled during operation.	Indoor odor components, cigarette odor and cosmetic odor accumulated in the air conditioner and its air is discharged. Unit inside is dusty. Consult your dealer.
Dewdrop	Dewdrop gets accumulated near air discharge during operation	Indoor moisture is cooled by cool wind and accumulated by dewdrop.
Fog	Fog occurs during operation in cooling mode. (Places where large amounts of oil mist exist at restaurants.)	• Cleaning is necessary because unit inside (heat exchanger) is dirty. Consult your dealer as technical engineering is required. • During defrost operation
Fan is rotating for a while even though operation stops.		• Fan rotating makes operation smoothly. • Fan may sometimes rotates because of drying heat exchanger due to settings. • Fan may sometimes rotates in internal cleaning operation mode for a while.
Wind-direction changes while operating. Wind-direction setting cannot be made. Wind-direction cannot be changed.		• When air discharge temperature is low or during defrost operation, horizontal wind flow is made automatically. • Flap position is occasionally set up individually.
When wind-direction is changed, flap operates several times and stops at designated position.		When wind-direction is changed, flap operates after searching for standard position.
Dust		Dust accumulation inside indoor unit is discharged.
Poor cooling or heating performance		The indoor unit is initially designed to control the indoor temperature detected by the built-in room sensor inside the indoor unit. Due to indoor unit installation position, however, the built-in sensor may occasionally sense temperature improperly; for example, temperature difference between the ceiling and floor, lighting apparatus, electric fan, windows or waist-high partition walls, etc. In this case, the unit does not operate properly at the desired temperature. You may change the use of the temperature sensor inside the indoor unit to that of the remote controller. Then the desired room temperature can be controlled properly. For details, consult your dealer.

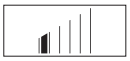
Check Before Requiring Services

Symptom	Cause	Remedy
Air conditioner does not run at all although power is turned on.	Power failure or after power failure	Press ON/OFF operation button on remote controller again.
	Operation button is turned off.	• Switch on power if breaker is turned off. • If breaker has been tripped, consult your dealer without turning it on.
	Fuse blow out.	If blown out, consult your dealer.
Poor cooling or heating performance	Air intake or air discharge port of indoor and outdoor units is clogged with dust or obstacles.	Remove dust or obstruction.
	Fan speed switch is set to “Low”.*	Change to “Medium” or “High”.*
	Improper temperature settings	See “● Tips for Energy Saving”.
	Room is exposed to direct sunlight in cooling mode.	
	Doors and /or windows are open.	
	Air filter is clogged.	See “● Care and Cleaning” on page 1-11-1-1-39.
	Too much heat sources in room in cooling mode.	Use minimum heat sources and in a short time.
	Too many people in room in cooling mode.	Reduce temperature settings or change to “Medium” or “High”.*

* Fan speed display on the remote controller

High :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Medium :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Low :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

If your air conditioner still does not work properly although you checked the points as described above, first stop the operation and turn off the power switch. Then contact your dealer and report the serial number and symptom. Never repair your air conditioner by yourself since it is very dangerous for you to do so.

● Tips for Energy Saving

Avoid

- **Do not block the air intake and outlet of the unit. If either is obstructed, the unit will not work well, and may be damaged.**
- Do not let direct sunlight into the room. Use sunshades, blinds or curtains. If the walls and ceiling of the room are warmed by the sun, it will take longer to cool the room.

Do

- Always try to keep the air filter clean. (See “● Care and Cleaning” on page 1-11-1-1-39.) A clogged filter will impair the performance of the unit.
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

NOTE

Should the power fail while the unit is running

If the power supply for this unit is temporarily cut off, the unit will automatically resume operation once power is restored using the same settings before the power was interrupted.

■ IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

■ SERVICING

CAUTION

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, (2) to (6) shall be completed prior to conducting work on the system.

(1) Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

(2) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(3) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(4) If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

(5) No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

(6) Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

(7) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.
- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

(8) Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
Initial safety checks shall include:
- That capacitors are discharged. This shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer’s specifications.

  NOTE:
  The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

■ REMOVAL AND EVACUATION

CAUTION

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:
  • Remove refrigerant.
  • Purge the circuit with inert gas.
  • Evacuate.
  • Purge again with inert gas.
  • Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be “flushed” with Oxygen Free Nitrogen (OFN) to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

■ CHARGING PROCEDURES

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

■ DECOMMISSIONING

CAUTION

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
  • Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
  • All personal protective equipment is available and being used correctly.
  • The recovery process is supervised at all times by a competent person.
  • Recovery equipment and cylinders conform to the appropriate standards.
  d) Pump down refrigerant system, if possible.
  e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
  f) Make sure that cylinder is situated on the scales before recovery takes place.
  g) Start the recovery machine and operate in accordance with manufacturer’s instructions.
  h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
  i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
  j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
  k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging / discharging.

■ RECOVERY

NOTE

See “11. Recovery” on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6 and 1-11-2-4-6.

Option Parts

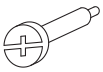
■ Air Intake Chamber

CZ-FDU3

● Accessory parts

The accessory parts are required for the installation work so they should not be discarded until the work is completed.

• The following parts are provided inside the package so check that they are accounted for.

Part name	No. of parts	Part name	No. of parts	Part name	No. of parts
Screws (5 x 40)  (Used to secure this Air intake chamber)	4	Washers  (Used to secure this Air intake chamber)	4	Installation instructions 	1

● Mounting procedure

Before proceeding with the mounting, remove the cushions which have been inserted into the air outlets (in 4 places).

<1> Mounting Air intake chamber (Fig. 1-11-1-1-1)

• Place the black sealant side of Air intake chamber toward the indoor unit.
(Air intake chamber can be mounted correctly in only one way so ensure that the shapes of the indoor unit and chamber are aligned properly.)

• Use the accessory screws (x4) to secure the indoor unit and Air intake chamber.

<2> Installing the indoor unit

• Install the indoor unit with Air intake chamber mounted on it to the ceiling.
(Now proceed with the installation in accordance with the installation instructions provided with the indoor unit.)

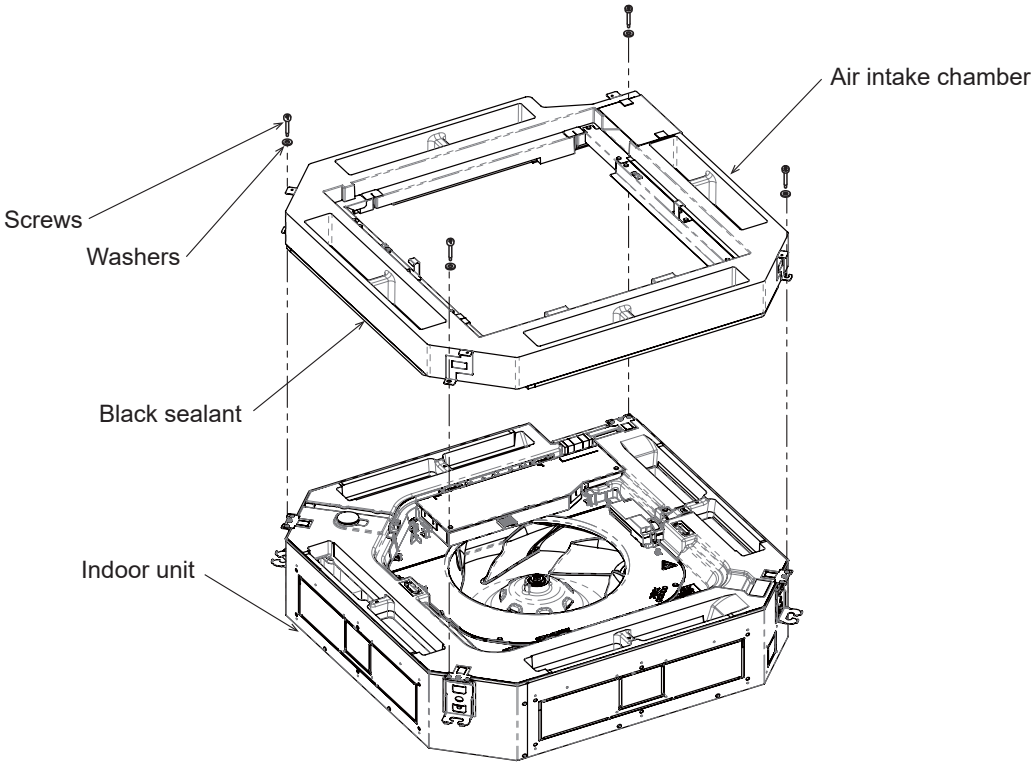


Fig. 1-11-1-1-1

<3> Mounting the ceiling panel (Fig. 1-11-1-1-2)

• Mount the ceiling panel to the indoor unit (with Air intake chamber).
(For details on how the ceiling panel is to be mounted, refer to the installation instructions which are provided with the ceiling panel.)

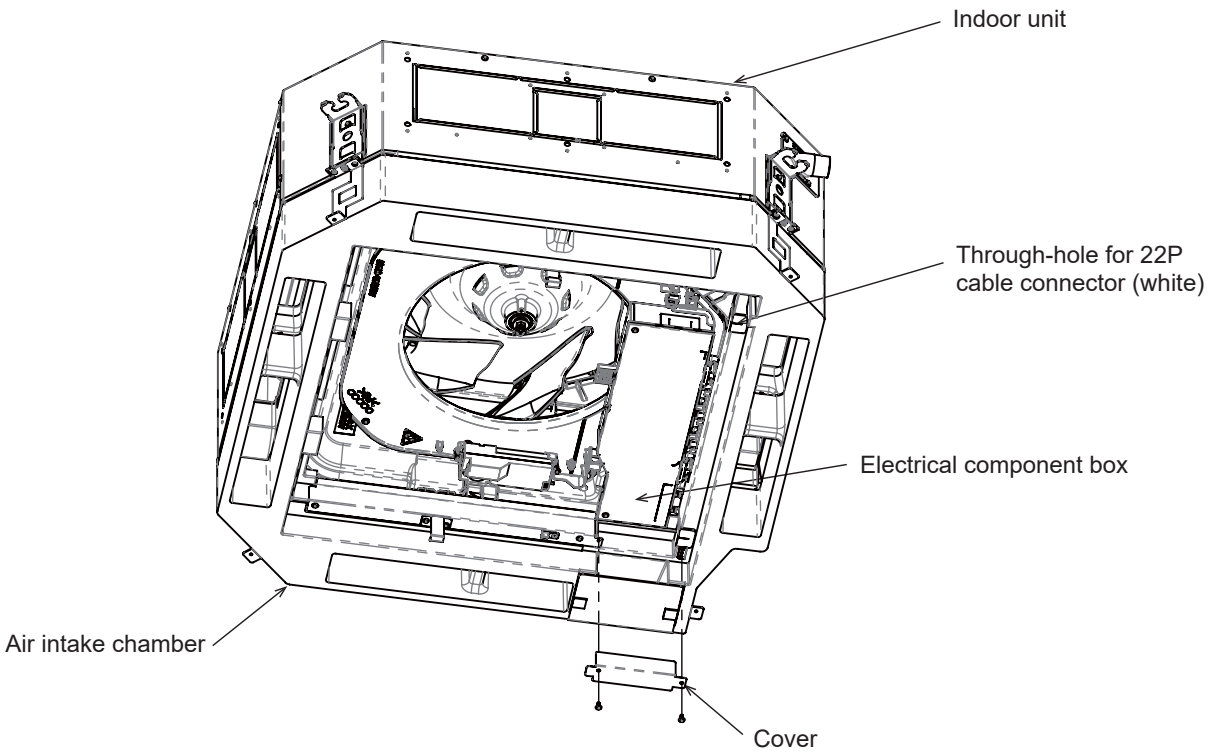
<4> Connecting the panel cables (Fig. 1-11-1-1-2)

• Remove the cover of Air intake chamber, and remove the cover of electrical component box.

• Cut the clamp used to bundle the ceiling panel cable, insert the 22P connector (white) of the cable into the through-hole in Air intake chamber, and connect it to the 22P connector inside the electrical component box.

• Return the cover of electrical component box and the cover of Air intake chamber to their original positions.

● **Mounting procedure (continued)**



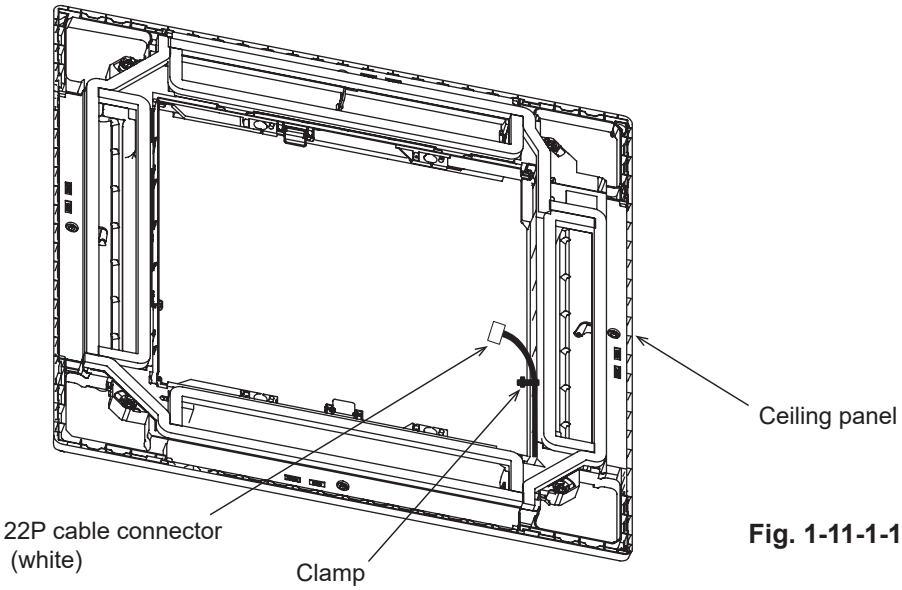


Fig. 1-11-1-1-2

● Selecting the DC fan motor taps

It is necessary to set the fan speed in accordance with the intended application and the optional parts to be used if any such part is used. (Table 1-11-1-1-1)
If this speed is not changed, a reduction in the air flow may result, causing the air outlet temperature to drop and condensation to form during cooling.
There are two ways to set the fan speed: either (1) change the positions of the DIP switches on the indoor unit control PCB or (2) set the speed using the wired remote controller. Select one of these ways.
* Priority is given to setting the fan speed by changing the positions of the DIP switches.

Table 1-11-1-1-1 DC fan motor tap setting table

Setting No	Item code 5D/5d setting data	Intended application / name of optional parts	Setting No	Item code 5D/5d setting data	Intended application / name of optional parts
	0000	Standard (factory setting)	(1)	0001	Air-flow blocking kit (for 3-way air flow)
(1)	0001	High-ceiling setting 1 (with standard, ECONAVI panel)	(3)	0003	High-ceiling setting 2 (with standard, ECONAVI panel)
		Air-flow blocking kit (when a duct is connected.)	(6)	0006	Air-flow blocking kit (for 2-way air flow)

When setting the fan speed by changing the positions of the DIP switches on the indoor unit control PCB

<Procedure> Be absolutely sure to turn off the power (earth-leakage circuit breaker).

<1> On Table 1-11-1-1-1, check out the “Setting No.” that corresponds to the intended application and the optional parts to be used.

<2> Open the cover of the electrical component box, and check the indoor unit control PCB. (Fig. 1-11-1-1-3)

<3> Select the Setting No. which was checked out on Table 1-11-1-1-1, and change the positions of the DIP switches on the indoor unit control PCB.

Setting No.	DIP switch
(1)	TP6 TP3 TP1 DIP switch “ON” position “OFF” position
(3)	TP6 TP3 TP1 DIP switch “ON” position “OFF” position
(6)	TP6 TP3 TP1 DIP switch “ON” position “OFF” position

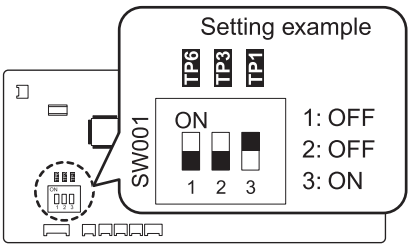
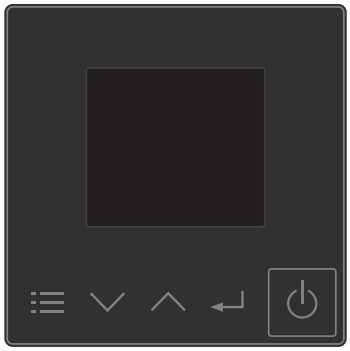


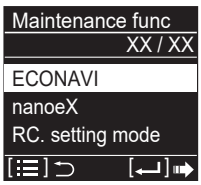
Fig. 1-11-1-1-3
Indoor unit control PCB

When setting the fan speed using a wired remote controller
(optional parts CZ-RTC6 series)

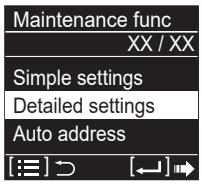


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

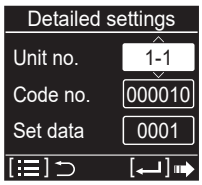


② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the ∨ or ∧ button.



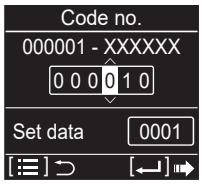
After selecting “Unit no.”, press the ↵ button and proceed to Step ④.
If the ☰ button is pressed, proceed to Step ⑥.

④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.





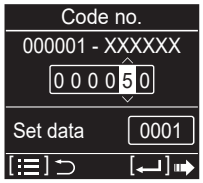
Fig. A



Change the “Code no.” one digit at a time so that it becomes [00005D] along with the following procedures.

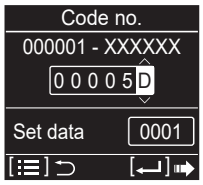
Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Fig. B



Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

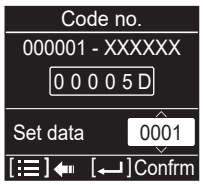
Fig. C



Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step ⑤.

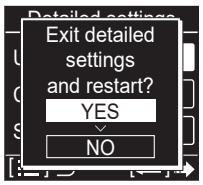
⑤ Select one of the “Set data” in “Table for DC Fan Motor Tap Setting” by pressing the ∨ or ∧ button.

Fig. D



After selecting “Set data”, press the ↵ button.
(If setting continuously, follow the procedures from **Fig. A**.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step ③).

⑥ If the ☰ button is pressed under the display Step ③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.



When setting the fan speed using a wired remote controller (optional parts: CZ-RTC5B)

On Table 1-11-1-1-1, check out the “Item code 5D setting data” that corresponds to the intended application and the optional parts to be used.

<Procedure> Ensure that the unit has stopped operating before changing the fan speed.

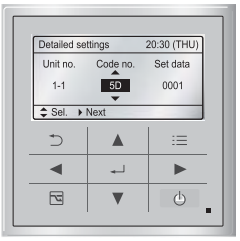
<1> Hold down the [⮌] + [↵] + [►] buttons together for at least 4 seconds.
The maintenance function screen is displayed.

<2> Use the [▲] / [▼] buttons to select the display and the [◄] / [►] buttons to select the page.
Select “8.Detailed settings” and press the [↵] button.
The [Detailed settings screen] appears.
Using the [▲] / [▼] buttons, select the unit No.

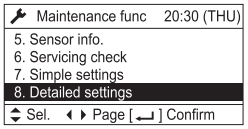
<3> Using the [◄] / [►] buttons, select the item code.
Using the [▲] / [▼] buttons, change the item code to “5D.”

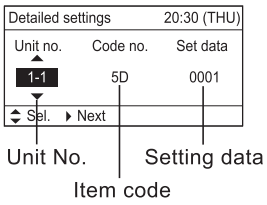
<4> Using the [◄] / [►] buttons, select the setting data.
Using the [▲] / [▼] buttons, change the setting data to the value checked out on Table 1-11-1-1-1, and press the [↵] button.

<5> After selecting the unit No. using the [◄] / [►] buttons, press the [⮌] button.
The [Detailed settings completion screen] appears.
Select “Yes” , and press the [↵].



CZ-RTC5B





When setting the fan speed using a wired remote controller (optional parts: CZ-RTC4)

On Table 1-11-1-1-1, check out the “Item code 5d setting data” that corresponds to the intended application and the optional parts to be used.

<Procedure> Ensure that the units have stopped operating before changing the fan speed.

<1> Hold down the [⏻] + [SET] + [CANCEL] buttons together for at least 4 seconds.

<2> Each time the [UNIT] button is pressed, the numbers of the indoor units under group control are displayed in sequence.
The fan motor of only the indoor unit that has been selected will run.

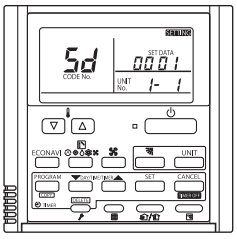
<3> Specify item code “5d” using the temperature setting [▽] / [△] buttons.

<4> Change the setting data using the hour [DAY/TIME/TIMER▼] [DAY/TIME/TIMER▲] buttons. The setting data details are as given on Table 1-11-1-1-1.

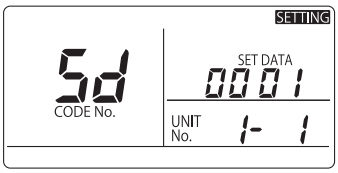
<5> Press the [SET] button. (OK if the display changes from flashing to lighted.)

<6> Press the [⏻] button. The normal stop status is established.
Go to step <2> to change the selected indoor unit.

<7> Press the [⏻] button. The normal stop status is established.



CZ-RTC4

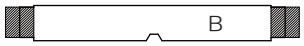
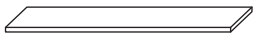
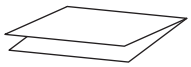


■ Air-flow Blocking Kit

CZ-CFU3

● Accessory parts

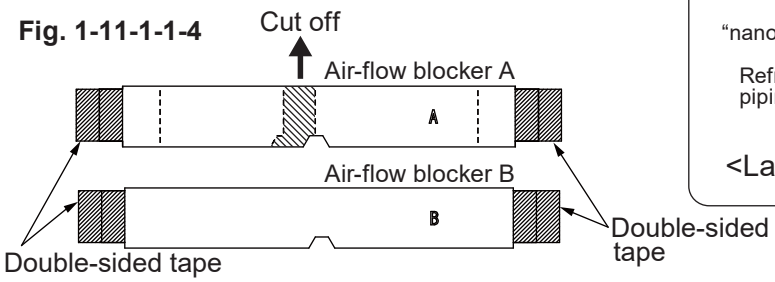
The accessory parts are required for the installation work so they should not be discarded until the work is completed.

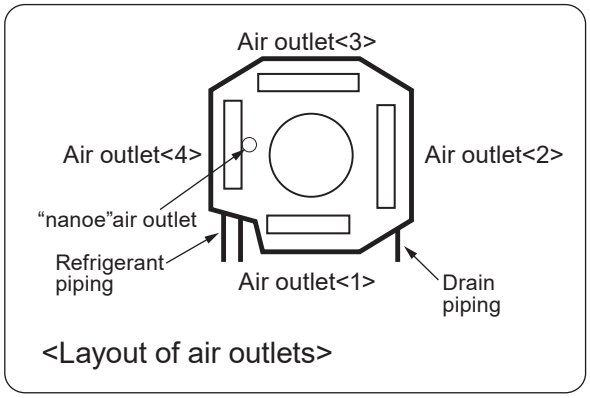
Part name	No. of parts	Part name	No. of parts	Part name	No. of parts
Air-flow blocker (470×65×T10) A:2  B:1 	3	Sealer (570×90×T2) 	2	Installation instructions 	1

● Mounting procedure

(1) Checking where the air-flow blocker is to be attached
For Air outlet<1>
When Air-flow blocker A is to be attached, cut it in parallel with the slit. (Fig. 1-11-1-1-4)
For Air outlet<2>
Air-flow blocker B can be used as is.
For Air outlet<3>or<4>
Air-flow blocker A can be used as is.

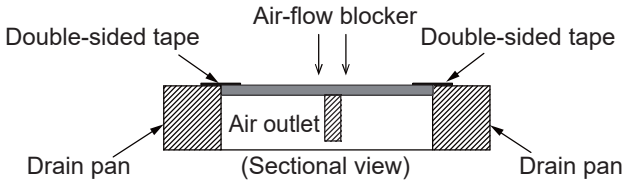
Fig. 1-11-1-1-4





(2) Fit the air-flow blocker into place to match the shape of the air outlet, adhere the tape of the both side of air-flow blocker to the drain pan and adhere the sealer on top to block the passage of air. (Fig. 1-11-1-1-5) (Fig. 1-11-1-1-6)

Fig. 1-11-1-1-5



(3) Adhere the sealer to the drain pan with an overlap of 10 mm or more. (Condensation may form if it is adhered with no overlap.) (fig. 1-11-1-1-7)

*1 Ensure that the sealer does not come into contact with the corner metal fitting.

*2 Cut the sealer diagonally so that no contact is made with the wire.

Fold the protruding parts of the sealer over the side panel, and adhere them into place.

Fig. 1-11-1-1-6

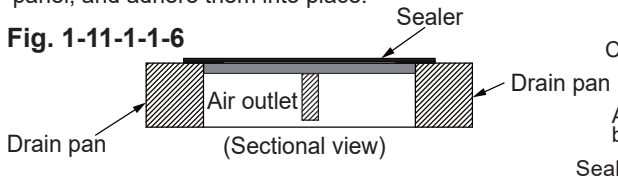
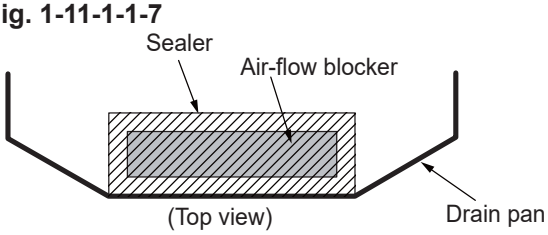
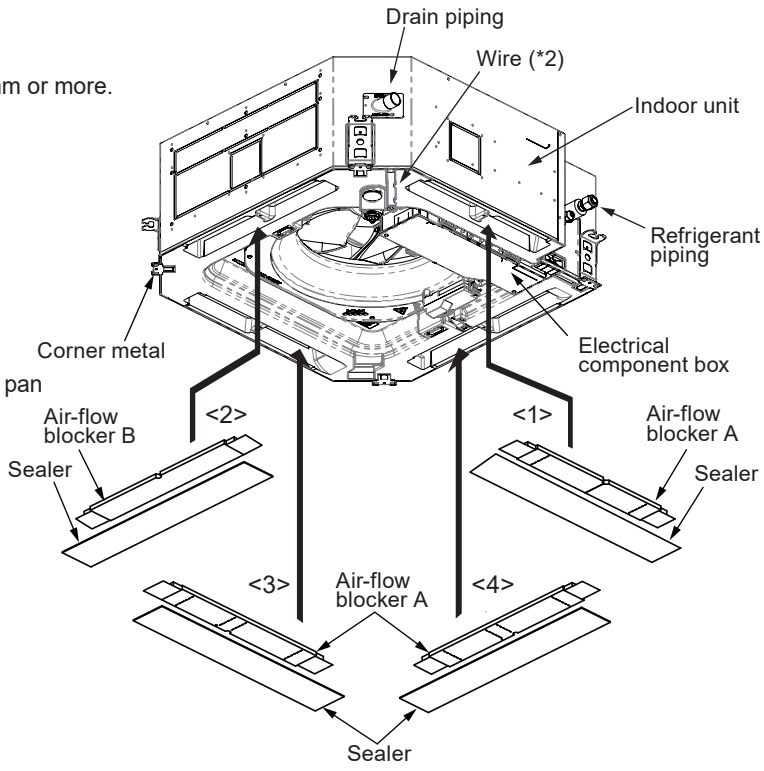


Fig. 1-11-1-1-7



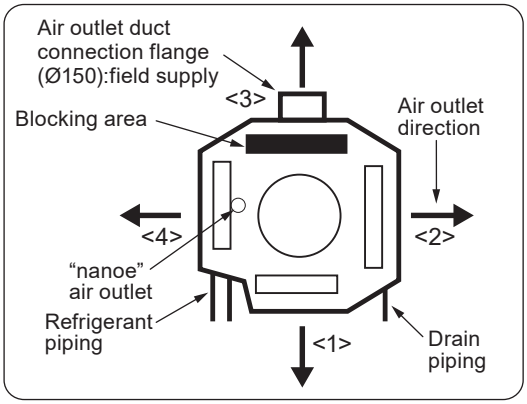
Please affix in accordance with the end of the drain pan.



● Air outlet blocking patterns

As seen from underneath the indoor unit

- When a 2- or 3-way air outlet configuration is used or when the air outlet duct connection flange (Ø150):field supply is connected, block the air outlets as per the air outlet blocking patterns illustrated below.
  Also, see the table below, and decide on where the pipings are to be positioned.
  (To better understand what the illustrations show, see the figure on the right.)
  Note: Take care to prevent cold air leaks and deficient insulation while performing the air outlet duct connection flange (Ø150):field supply work in order to prevent condensation from forming.
- It should be borne in mind that any air outlet blocking pattern with the hatching mark will make it impossible for the “nanoe” nano-technology fine particle function to work.
- Under no circumstances must any air outlet blocking patterns not shown in the table below be used.



3-way air outlet One outlet can be blocked.				
2-way air outlet Two outlets can be blocked.				
Air outlet duct connection flange (Ø150):field supply connection 3-way air outlet One outlet can be blocked and connected to a duct.				
Air outlet duct connection flange (Ø150):field supply connection 2-way air outlet Two outlets can be blocked and connected to a duct. Note: The duct can be connected only in one of the locations shown.				

Changing the DC fan tap settings

While referring to “Selecting the DC fan motor taps”, change the DC fan speed by using the wired remote controller or by setting the DIP switches on the indoor unit control PCB.

● Selecting the DC fan motor taps

It is necessary to set the fan speed in accordance with the intended application and the optional parts to be used if any such part is used. (Table 1-11-1-1-2)
If this speed is not changed, a reduction in the air flow may result, causing the air outlet temperature to drop and condensation to form during cooling.
There are two ways to set the fan speed: either (1) change the positions of the DIP switches on the indoor unit control PCB or (2) set the speed using the wired remote controller. Select one of these ways.
* Priority is given to setting the fan speed by changing the positions of the DIP switches.

Table 1-11-1-1-2 DC fan motor tap setting table

Setting No	Item code 5D/5d setting data	Intended application / name of optional parts	Setting No	Item code 5D/5d setting data	Intended application / name of optional parts
	0000	Standard (factory setting)	(1)	0001	Air-flow blocking kit(for 3-way air flow)
(1)	0001	High-ceiling setting 1 (with standard, ECONAVI panel)	(3)	0003	High-ceiling setting 2 (with standard, ECONAVI panel)
		Air-flow blocking kit (when a duct is connected.)	(6)	0006	Air-flow blocking kit (for 2-way air flow)

When setting the fan speed by changing the positions of the DIP switches on the indoor unit control PCB

<Procedure> Be absolutely sure to turn off the power (earth-leakage circuit breaker).

<1> On Table 1-11-1-1-2, check out the “Setting No.” that corresponds to the intended application and the optional parts to be used.

<2> Open the cover of the electrical parts box, and check the indoor unit control PCB. (Fig. 1-11-1-1-8)

<3> Select the Setting No. which was checked out on Table 1-11-1-1-2, and change the positions of the DIP switches on the indoor unit control PCB.

Setting No.	DIP switch
(1)	TP6 TP3 TP1 ON 1 2 3 DIP switch “ON” position “OFF” position
(3)	TP6 TP3 TP1 ON 1 2 3 DIP switch “ON” position “OFF” position
(6)	TP6 TP3 TP1 ON 1 2 3 DIP switch “ON” position “OFF” position

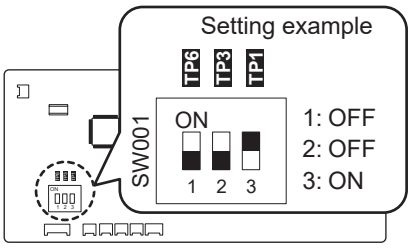
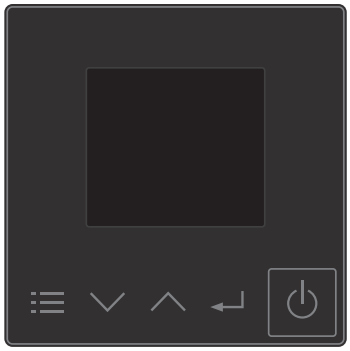


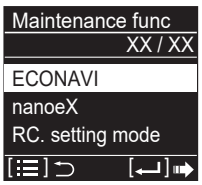
Fig. 1-11-1-1-8
Indoor unit control PCB

When setting the fan speed using a wired remote controller
(optional parts CZ-RTC6 series)

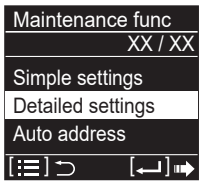


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

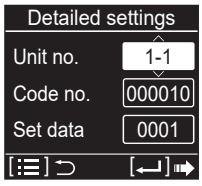


② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the ∨ or ∧ button.



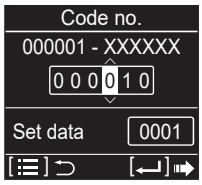
After selecting “Unit no.”, press the ↵ button and proceed to Step ④.
If the ☰ button is pressed, proceed to Step ⑥.

④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.





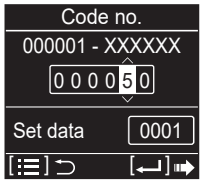
Fig. A



Change the “Code no.” one digit at a time so that it becomes [00005D] along with the following procedures.

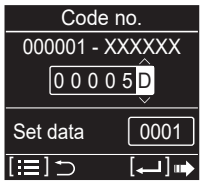
Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Fig. B



Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

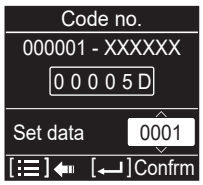
Fig. C



Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step ⑤.

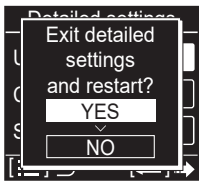
⑤ Select one of the “Set data” in “Table for DC Fan Motor Tap Setting” by pressing the ∨ or ∧ button.

Fig. D



After selecting “Set data”, press the ↵ button.
(If setting continuously, follow the procedures from **Fig. A**.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step ③).

⑥ If the ☰ button is pressed under the display Step ③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.



When setting the fan speed using a wired remote controller (optional parts: CZ-RTC5B)

On Table 1-11-1-1-2, check out the “Item code 5D setting data” that corresponds to the intended application and the optional parts to be used.

<Procedure> Ensure that the unit has stopped operating before changing the fan speed.

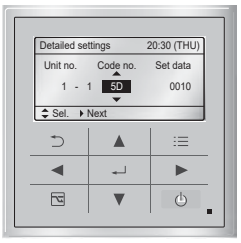
<1> Hold down the [↩] + [↵] + [►] buttons together for at least 4 seconds.
The maintenance function screen is displayed.

<2> Use the [▲] / [▼] buttons to select the display and the [◄] / [►] buttons to select the page.
Select “8.Detailed settings” and press the [↵] button.
The [Detailed settings screen] appears.
Using the [▲] / [▼] buttons, select the unit No.

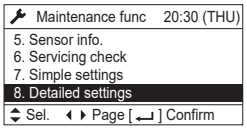
<3> Using the [◄] / [►] buttons, select the item code.
Using the [▲] / [▼] buttons, change the item code to “5D.”

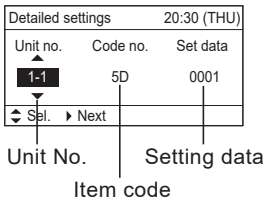
<4> Using the [◄] / [►] buttons, select the setting data.
Using the [▲] / [▼] buttons, change the setting data to the value checked out on Table 1-11-1-1-2, and press the [↵] button.

<5> After selecting the unit No. using the [◄] / [►] buttons, press the [↩] button.
The [Detailed settings completion screen] appears.
Select “Yes” , and press the [↵]



CZ-RTC5B





When setting the fan speed using a wired remote controller (optional parts: CZ-RTC4)

On Table 1-11-1-1-2, check out the “Item code 5d setting data” that corresponds to the intended application and the optional parts to be used.

<Procedure> Ensure that the units have stopped operating before changing the fan speed.

<1> Hold down the [⏻] + [SET] + [CANCEL] buttons together for at least 4 seconds.

<2> Each time the [UNIT] button is pressed, the numbers of the indoor units under group control are displayed in sequence.
The fan motor of only the indoor unit that has been selected will run.

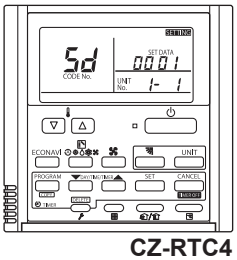
<3> Specify item code “5d” using the temperature setting [▽] / [△] buttons.

<4> Change the setting data using the hour [DAY/TIME/TIMER▼] [DAY/TIME/TIMER▲] buttons. The setting data details are as given on Table 1-11-1-1-2.

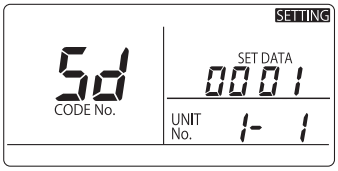
<5> Press the [SET] button. (OK if the display changes from flashing to lighted.)

<6> Press the [⏻] button. The normal stop status is established.
Go to step <2> to change the selected indoor unit.

<7> Press the [⏻] button. The normal stop status is established.



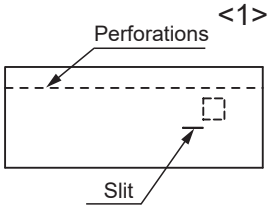
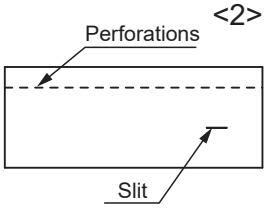
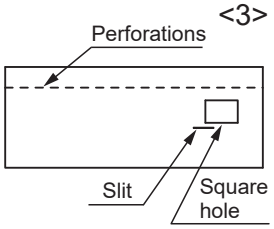
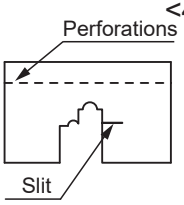
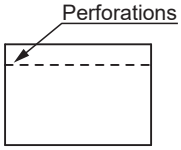
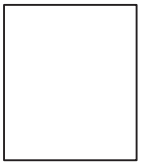
CZ-RTC4



■ Thermal Insulation Kit
CZ-INSU3

●Parts installed on the indoor unit

Details of parts

Part name	Side panel insulator	Side panel insulator	Side panel insulator	Side panel insulator
Shape	<1> 	<2> 	<3> 	<4> 
No. of parts	1	1	1	1
Part name	Side panel insulator	Side panel insulator	Ceiling insulator	Ceiling insulator
Shape	<5> 	<6> 	<7> 	<8> 
No. of parts	1	1	1	1
Part name	Ceiling insulator	Hanger insulator	Installation instructions	
Shape	<9> 	<10> 		
No. of parts	1	4	1	

Procedure for attaching the parts

* Indoor unit has two kinds of heights.(Large unit=319mm, Small unit=256mm)
When attaching the side panel insulator to the small unit, attach it after cutting along its perforations of the parts <1> to <5>

1. Align the slits of the side panel insulators <1> to <4> with the hanger, and attach the parts to the side panels of the indoor unit. (Fig. 1-11-1-1-9)
2. Now attach the side panel insulator <5> to the side panel of the indoor unit. (Fig. 1-11-1-1-9)
3. Align the side panel insulator <6> with the piping cover, and attach the part. (Fig. 1-11-1-1-9)
4. Attach the ceiling insulators <7> to <9> in such a way that no gaps are left. (Fig. 1-11-1-1-10)

Do the following procedures after installing the indoor unit.

5. Attach the hanger insulators <10> to the hangers in the directions shown in the figure. (Fig. 1-11-1-1-11)
   * Keep hanger insulator <10> until installing the indoor unit.

● **Parts installed on the indoor unit (continued)**

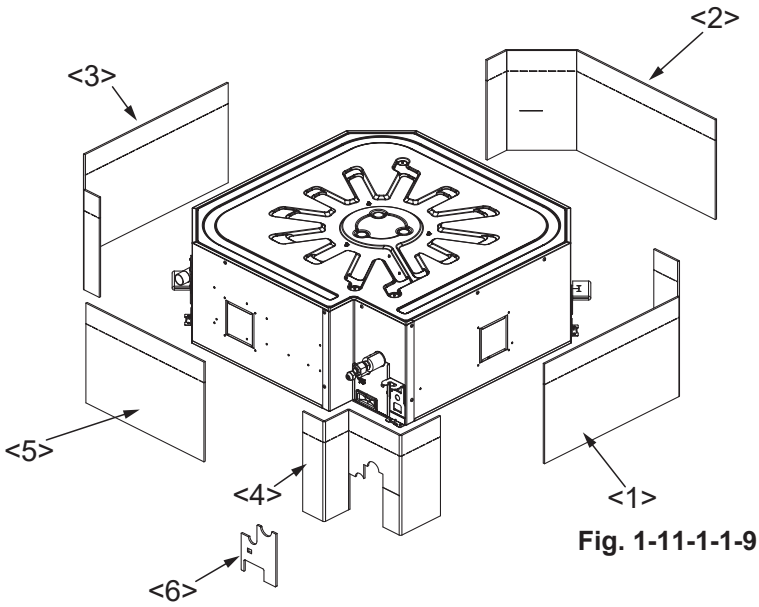


Fig. 1-11-1-1-9

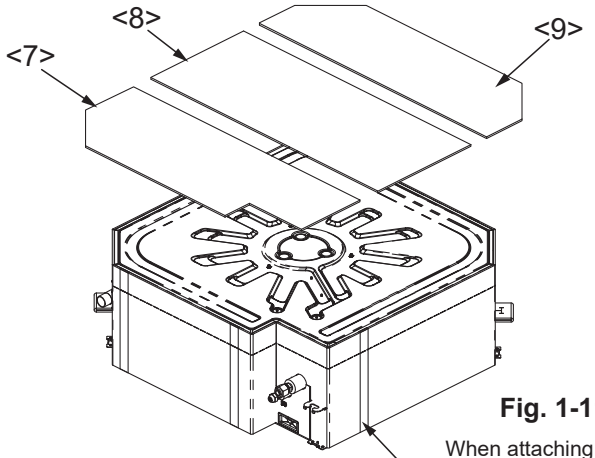


Fig. 1-11-1-1-10

When attaching the insulators, ensure that they overlap. (Side insulators <1> to <5>)

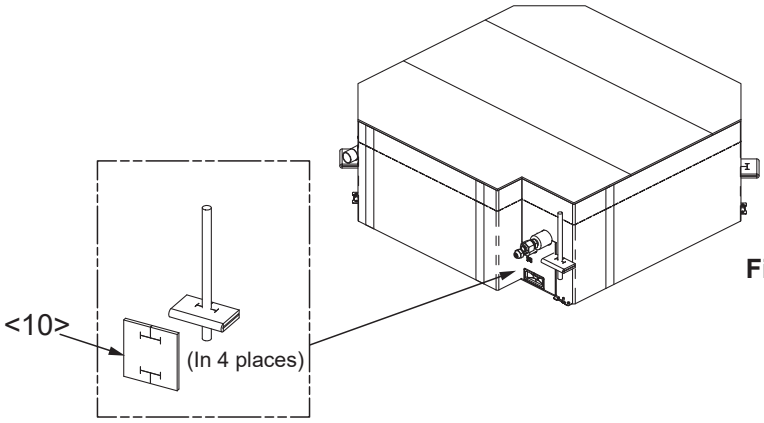
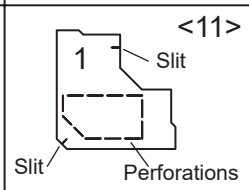
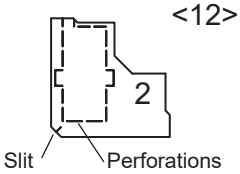
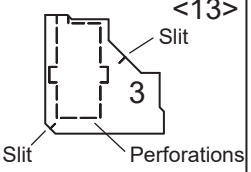
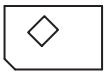


Fig. 1-11-1-1-11

● **Parts mounted on ceiling panels**

Details of parts

Part name	Insulator	Insulator	Insulator	Insulator	Insulator	Insulator
Shape	<11>  (Receiver used for ECONAVI)	<12> 	<13>  (Receiver used for wireless remote controller)	<14> 	<15> 	<16> 
No. of parts	2	1	1	2	1	1

Procedure for attaching the parts

1. Remove the covers in the four corners. (Fig. 1-11-1-1-12)
2. Fit the ceiling panel to the indoor unit.
   (For details on how the ceiling panel is to be fitted, refer to the installation instructions which are provided with the ceiling panel.)
3. Fit the insulators <11> to <13> onto the four corners of the ceiling panel exactly as shown in Fig. 1-11-1-1-13.
4. Fit the cover in place. The cover can fall off in this state so be absolutely sure to secure it in place using the fixing screws.

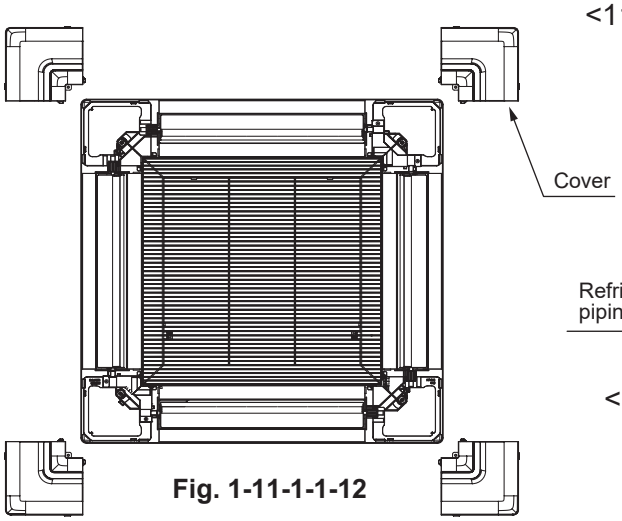


Fig. 1-11-1-1-12

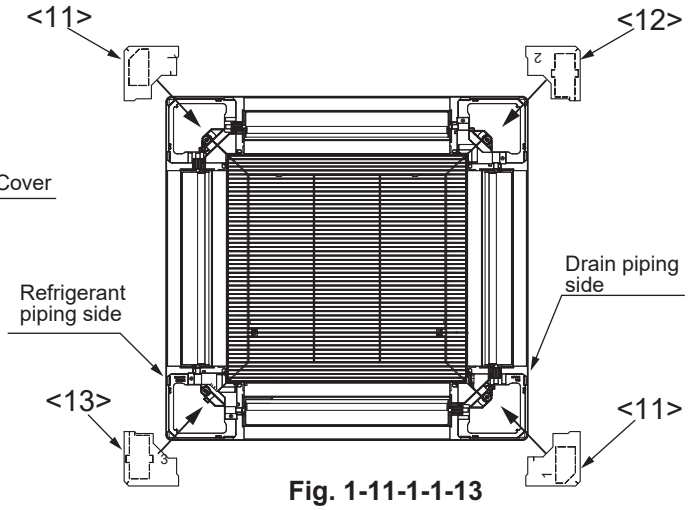


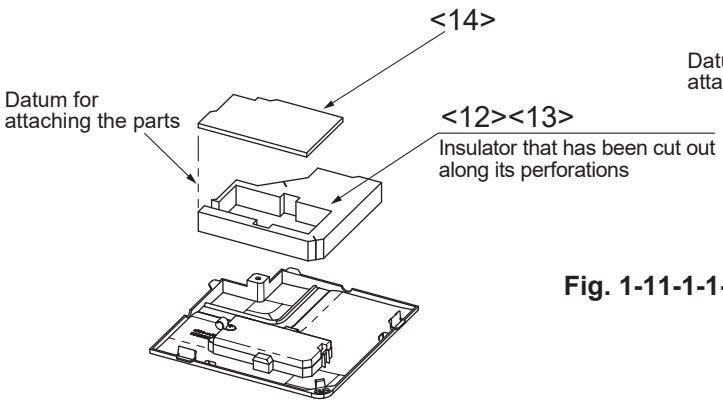
Fig. 1-11-1-1-13

<When mounting the parts onto the receivers (Fig. 1-11-1-1-14)>

Cut out along the perforations the insulators <11>, <12> and/or <13> that fit the mounting location, mount them by matching them to the shape of each receiver, and attach the covers to the ceiling panel.

* Be absolutely sure to use the maximum dimensions of 910 mm × 910 mm for the extent of the ceiling opening so that the ceiling surface and insulators will not absorb any shocks.
(For details on how the ceiling panel is to be fitted, refer to the installation instructions which are provided with the ceiling panel.)

For Wireless remote controller receiver



For ECONAVI panel

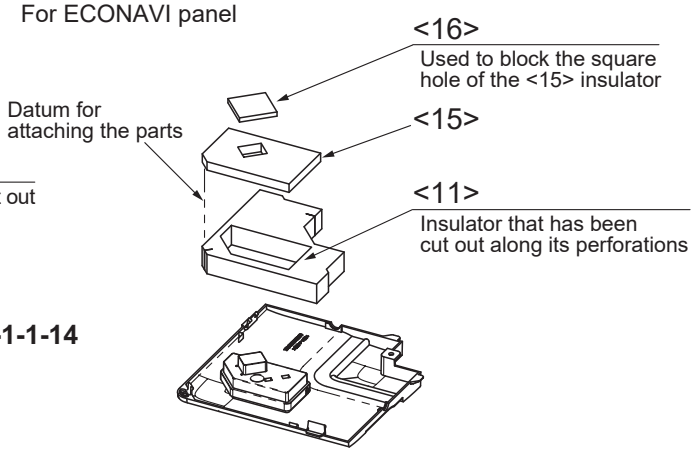


Fig. 1-11-1-1-14

1-11-1-2. Middle Static Pressure Duct Type S-3650PF3E, S-6071PF3E, S-1014PF3E

■ SELECTING THE INSTALLATION SITE

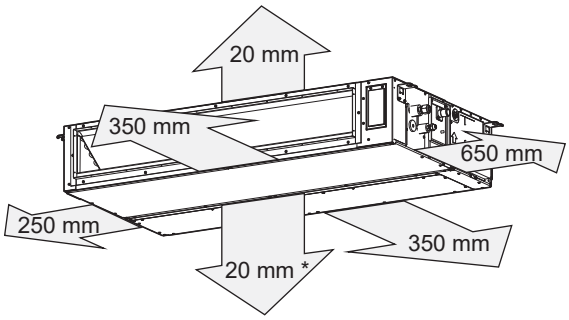
AVOID:

- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause “condensation” on the air discharge ports, causing them to spray or drip water.
- locations where the remote controller will be splashed with water or affected by dampness or humidity.
- installing the remote controller behind curtains or furniture.
- locations where high-frequency emissions are generated.

DO:

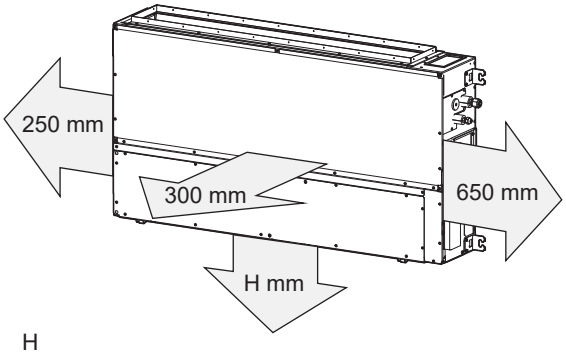
- select an appropriate position from which every corner of the room can be uniformly cooled.
- select a location where the ceiling is strong enough to support the weight of the unit.
- make sure to install protective guards on the suction and discharge side to prevent somebody from touching the fan motor, fan blades or heat exchanger.
- select a location where tubing and drain pipe have the shortest run to the outdoor unit.
- allow room for operation and maintenance as well as unrestricted airflow around the unit.
- the limitation of the tubing length between the indoor and the outdoor units should be checked “1-11-2. Installation Instructions of Outdoor Unit”.
- allow room for mounting the remote controller about 1m off the floor, in an area that is not in direct sunlight or in the flow of cool air from the indoor unit.

< Horizontal installation >



* It is necessary to make space for the cleaning as well as the maintenance of the drain pan and the heat exchanger.
Do not put any obstacle not to cause obstructing maintenance or cleaning works.
If the place where the ceiling material cannot be removed, make an opening section below the bottom surface of the indoor unit in order to take it out.
If it is impossible to provide an opening, make space more than 300 mm between the indoor unit ’s bottom surface and the ceiling material.

< Vertical installation >



H
- Lower side air intake with duct : 300 mm
- Lower side air intake without duct : 200 mm
- Front side air intake : 150 mm

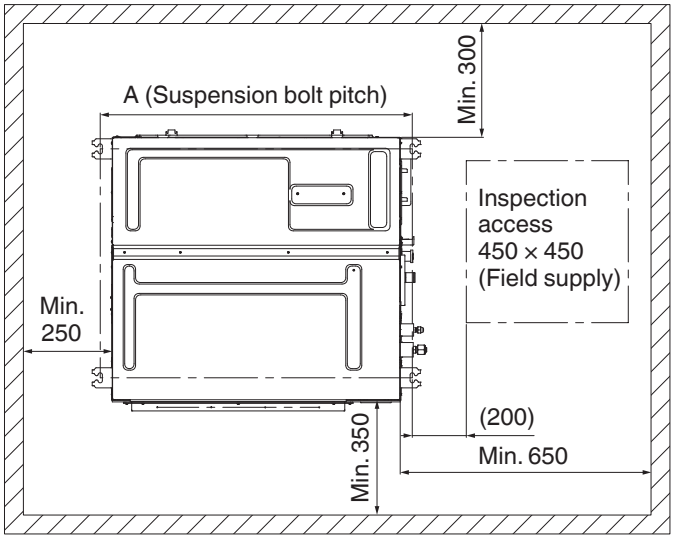
■ HOW TO INSTALL THE INDOOR UNIT

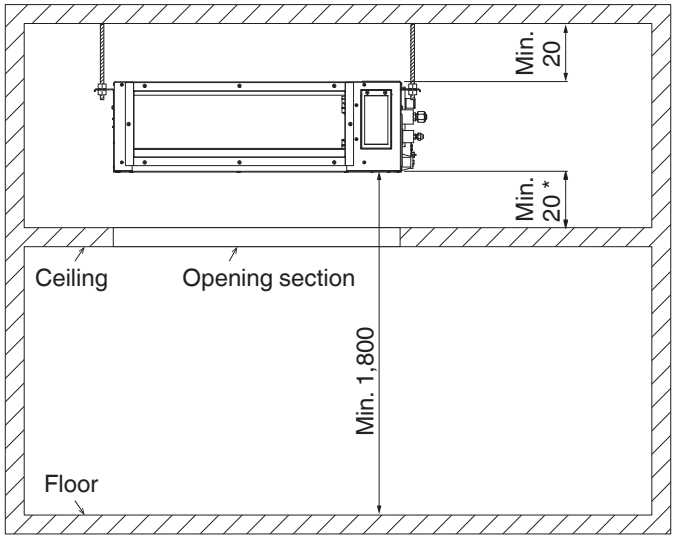
● Required Minimum Space for Installation and Maintenance Services

< Horizontal installation >

- This air conditioner is usually installed above the ceiling so that the indoor unit and ducts are not visible. Only the air intake and air outlet ports are visible from below.
- The minimum space for installation and maintenance services is shown in the figure.

Unit: mm



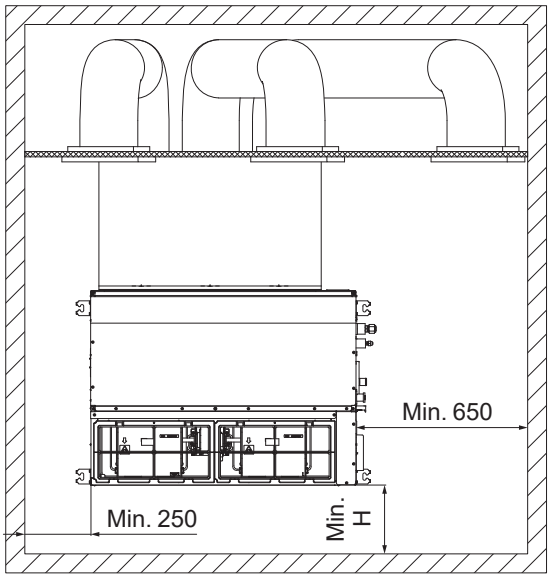


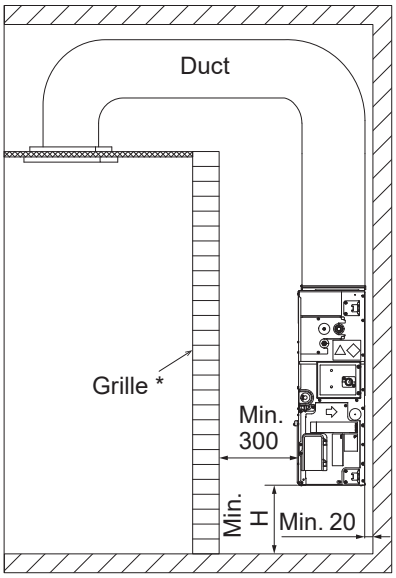
* It is necessary to make space for the cleaning as well as the maintenance of the drain pan and the heat exchanger.
Do not put any obstacle not to cause obstructing maintenance or cleaning works.
If the place where the ceiling material cannot be removed, make an opening section below the bottom surface of the indoor unit in order to take it out.
If it is impossible to provide an opening, make space more than 300 mm between the indoor unit's bottom surface and the ceiling material.

Unit: mm

Type	3650	6071	1014
A (Length)	867	1,067	1,467

< Vertical installation >

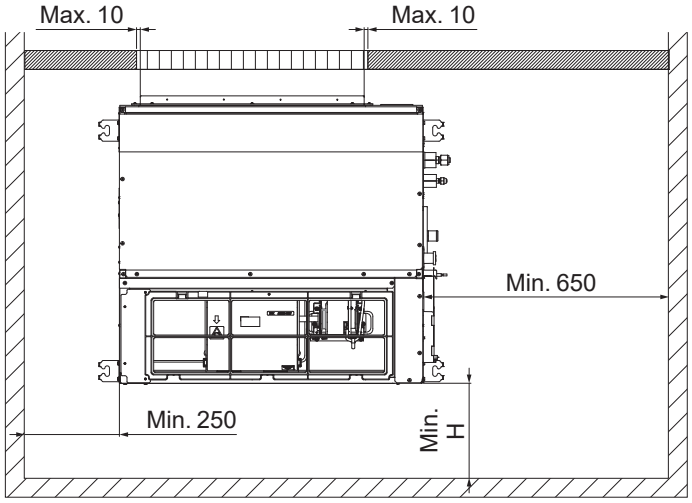


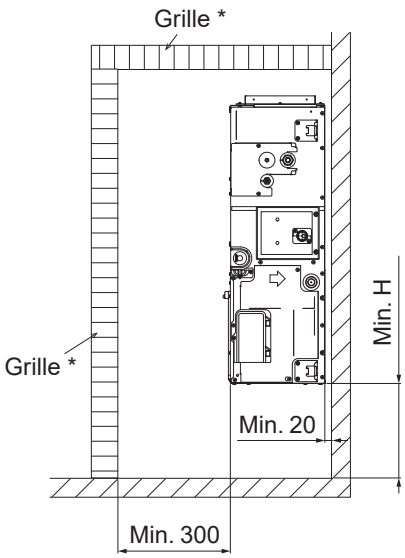


Unit: mm

H
- Lower side air intake with duct : 300 mm
- Lower side air intake without duct : 200 mm
- Front side air intake : 150 mm

* Make it possible to open / close for maintenance services.





Unit: mm

H
- Lower side air intake with duct : 300 mm
- Lower side air intake without duct : 200 mm
- Front side air intake : 150 mm

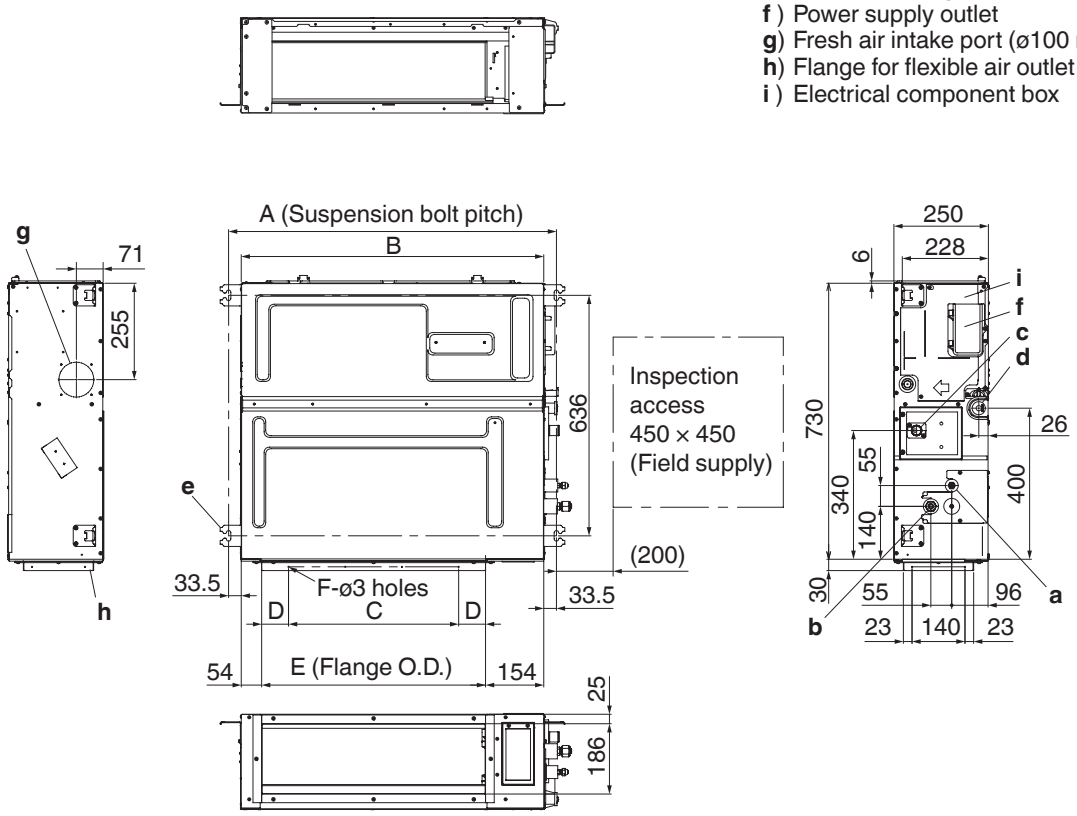
* Make it possible to open / close for maintenance services.

- It is recommended that space be provided (450 × 450 mm) for checking and servicing the electrical system.

Table 1-11-1-2-1 Detailed dimensions of indoor unit

Type	A	B	C	D	E	F
	mm	mm	mm	mm	mm	Q'ty
3650	867	800	450 (Pitch 150 × 3)	71	592	12
6071	1,067	1,000	750 (Pitch 150 × 5)	21	792	16
1014	1,467	1,400	1,050 (Pitch 150 × 7)	71	1,192	20

a) Refrigerant tubing joint (liquid tube)
b) Refrigerant tubing joint (gas tube)
c) Upper drain port VP20 (ø26 mm)
200 mm flexible hose supplied
d) Bottom drain port VP20 (ø26 mm)
e) Suspension lug (4 – 12 × 30 mm)
f) Power supply outlet
g) Fresh air intake port (ø100 mm)
h) Flange for flexible air outlet duct
i) Electrical component box

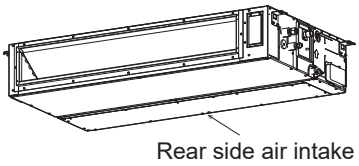


Unit: mm

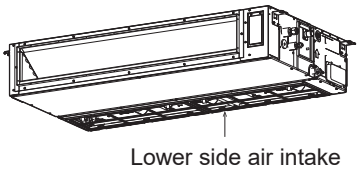
● Preparation Before Installation

Main Types of Installation

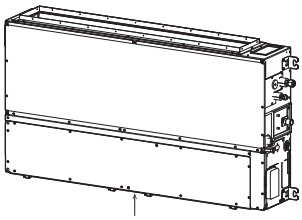
Case A (Standard installation)
Horizontal installation in the ceiling, rear side air intake



Case B
Horizontal installation in the ceiling, lower side air intake

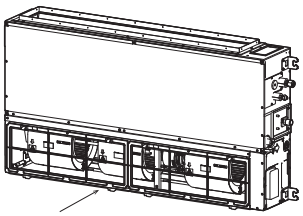


Case C
Vertical installation on the sidewall, lower side air intake



* While in heating mode, the temperatures may increase higher than the set temperature.

Case D
Vertical installation on the sidewall, front side air intake

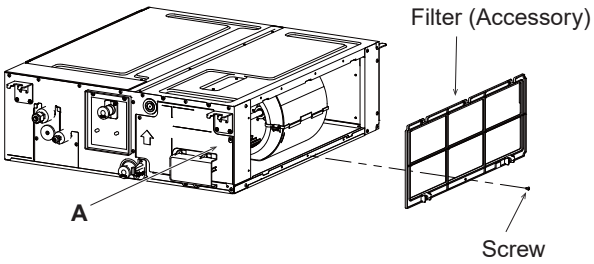


* While in heating mode, the temperatures may increase higher than the set temperature.

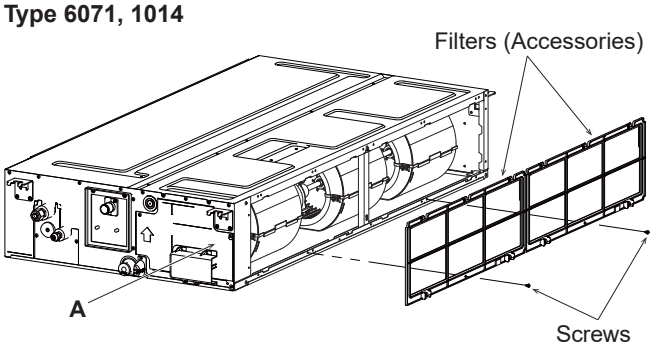
Install the Filter

When not connecting the air intake duct, be sure to install the filters (Accessories).
Case A and Case C are shown below.

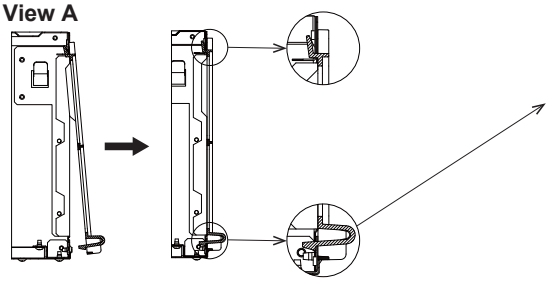
Type 3650

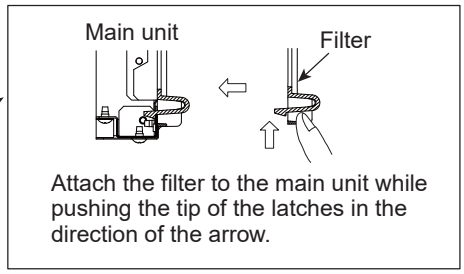


Type 6071, 1014



View A





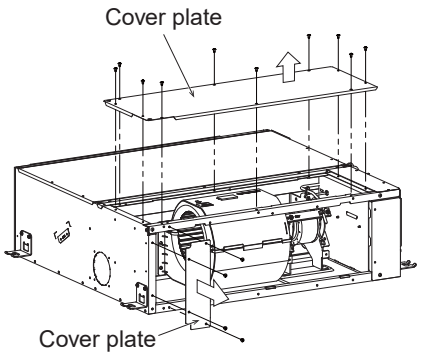
Attach the filters (accessories) in the manner shown in the figure.
Securely fix the filters with the screws.

Case B and Case D are shown below.

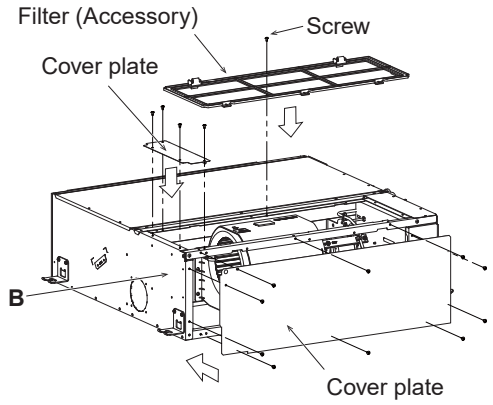
For Case B and Case D, replace the cover plates in the procedure shown in the figure.

Type 3650

1. Remove the cover plates (2 pcs).

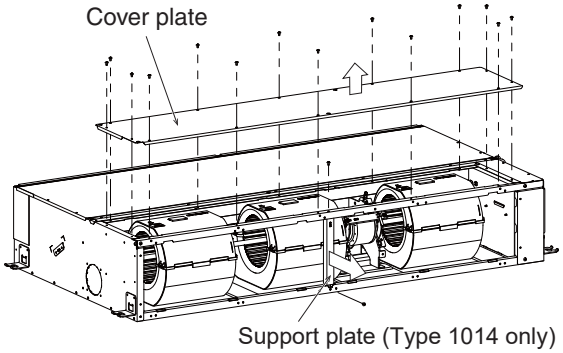


2. Attach the cover plates removed in step 1 and filter (accessory) in the direction shown in the figure below.

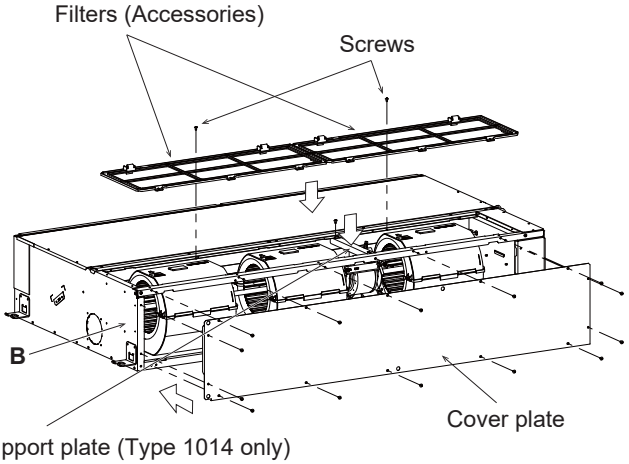


Type 6071, 1014

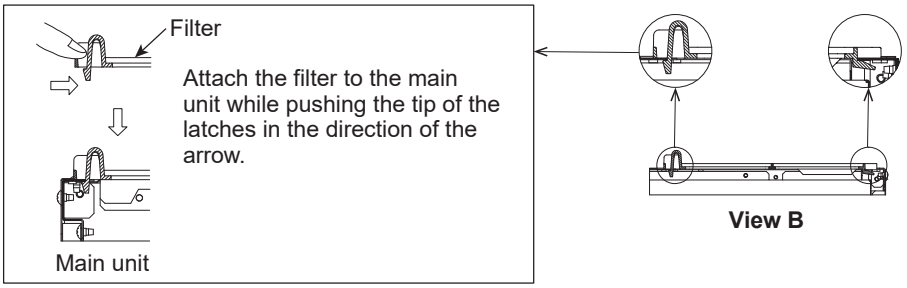
1. Remove the cover plate and the support plate (Type 1014 only).



2. Attach the cover plate and the support plate removed in step 1 and filters (accessories) in the direction shown in the figure below.



3. Attach the filters (accessories) in the manner shown in the figure. Securely fix the filters with the screws.



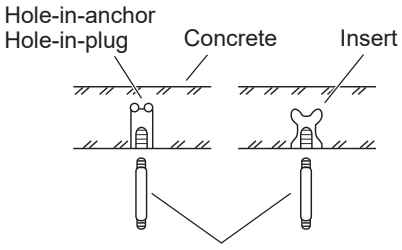
● Fix the Indoor Unit

Horizontal Installation

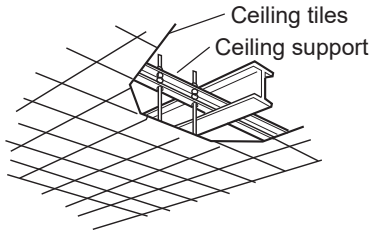
Depending on the ceiling type:

a) Insert suspension bolts
or

b) Use existing ceiling supports or construct a suitable support.



a)



b)

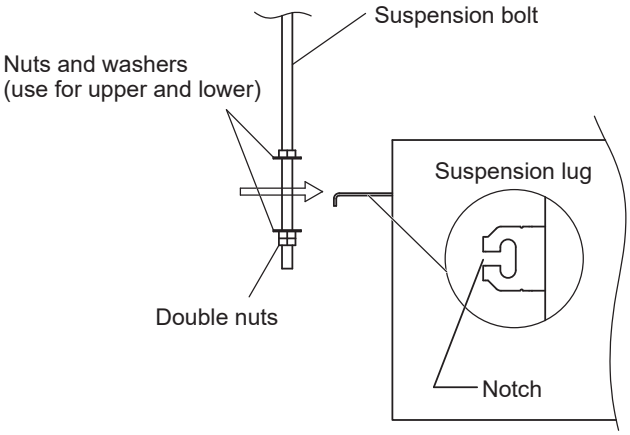
⚠ WARNING

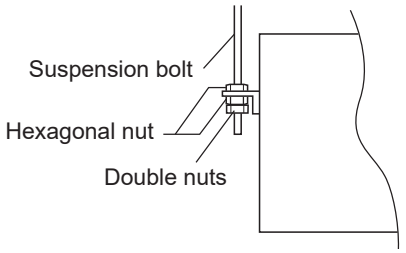
It is important that you use extreme care in supporting the indoor unit inside the ceiling. Ensure that the ceiling is strong enough to support the weight of the unit. Before hanging the unit, test the strength of each attached suspension bolt.

(1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts referring to the dimensional data as shown in the tables and diagrams under the section "●Required Minimum Space for Installation and Maintenance Services" on page 1-11-1-2-2. Tubing must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing into position for connection to the unit before placing the unit inside the ceiling.

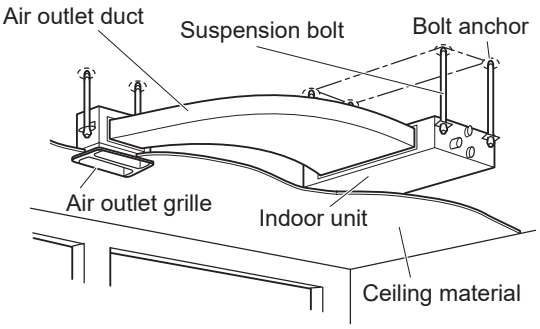
(2) Screw in the suspension bolts allowing them to protrude from the ceiling. (Cut the ceiling material, if necessary.)

(3) Thread the 3 hexagonal nuts and 2 washers (field supply) onto each of the 4 suspension bolts. Use 1 nut and 1 washer for the upper part, and 2 nuts and 1 washer for the lower part, so that the unit will not fall off the suspension lugs.



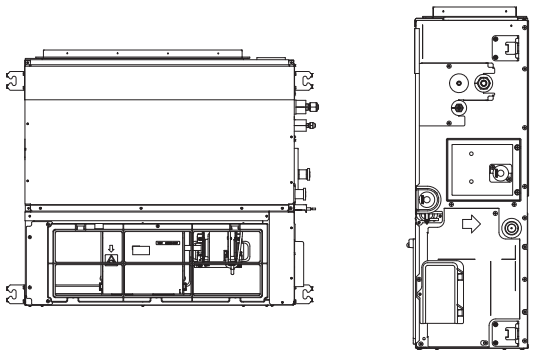


- This shows an example of installation.



Vertical Installation

- To prevent overturning, fasten the unit to the wall securely.
- Check to make sure the wall can endure 5 times of weight of the unit. Ensure to fix the unit.
- In order to suppress vibrations, provide he spacer between the unit and the wall.
- Fasten the hanging brackets and bolts using by the hexagon nuts and washers.
- Check to make sure the unit is installed in a horizontal position by using a level.
  Water leakage may occur if the unit is not installed horizontally.



● **Installing the Drain Pipe**

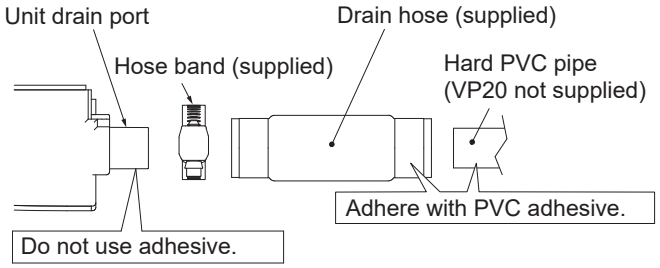
(1) Prepare standard hard PVC pipe (O.D.26 mm) for the drain and use the supplied hose band to prevent water leaks.
The PVC pipe must be purchased separately.
The transparent drain part on the unit allows you to check drainage.

⚠ CAUTION

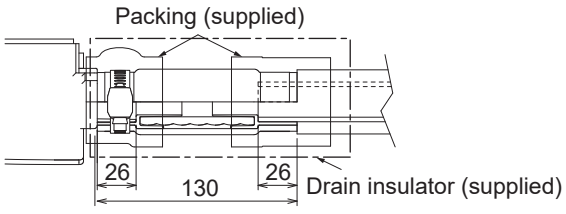
- **Do not use adhesive tape at the drain connection port on the indoor unit.**
- **Insert the drain pipe until it contacts the socket, and then secure it tightly with the hose band.**
- **Do not use the supplied drain hose bent at a 90° angle. (The maximum permissible bend is 45°.)**
- **Tighten the hose clamps so their locking nuts face upward.**

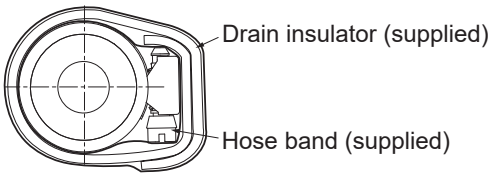
(2) Installing the drain hose

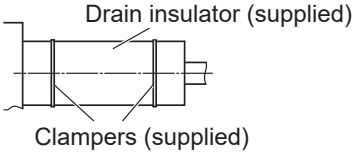
- First insert the drain hose (supplied) to the hose band (supplied) and then install the drain hose to the unit drain port.
- Insert until the drain hose bumps to the end.
- Hose band screw torque is 30 - 35 N · cm.
- Connect both the drain hose and PVC pipe (VP20 or similar material, not supplied).
Insert until the PVC pipe bumps to the end and adhere with PVC adhesive.



(3) After connecting the drain pipe securely, wrap the supplied packing and drain pipe insulator around the pipe, then secure it with the clampers.







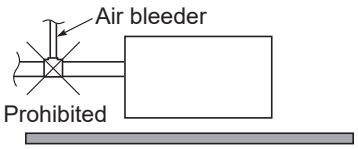
Horizontal Installation

NOTE

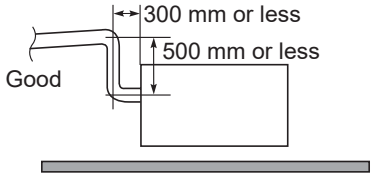
Make sure the drain pipe has a downward gradient (1/100 or more) and that there are no water traps.

⚠ CAUTION

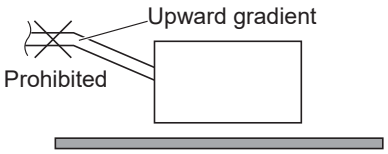
- **Do not install an air bleeder as this may cause water to spray from the drain pipe outlet.**



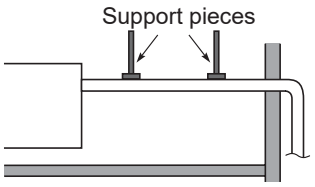
- **If it is necessary to increase the height of the drain pipe, the section directly after the connection port can be raised a maximum of 500 mm. Do not raise it any higher than 500 mm, as this could result in water leaks.**



- Do not install the pipe with an upward gradient from the connection port.
This will cause the drain water to flow backward and leak when the unit is not operating.



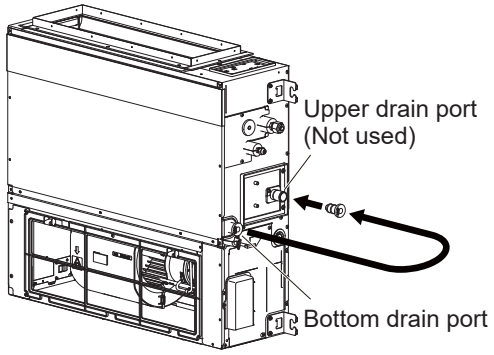
- Do not apply force to the piping on the unit side when connecting the drain pipe.
The pipe should not be allowed to hang unsupported from its connection to the unit.
Fasten the pipe to a wall, frame, or other support as close to the unit as possible.



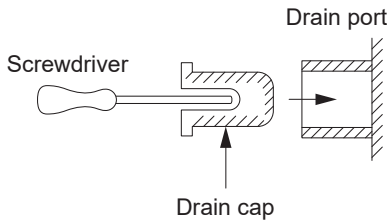
Vertical Installation

- Replace with the drain cap

  Remove the drain cap from the bottom drain port and reinstall it to the upper drain port.

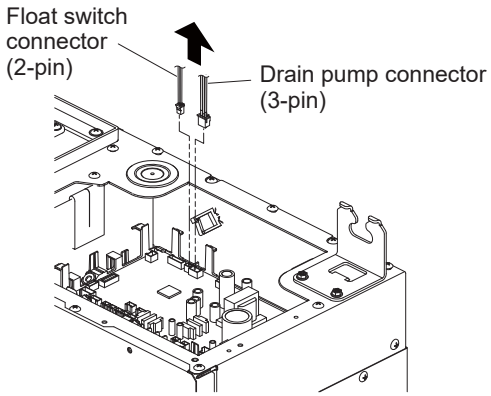


  The drain cap can be inserted easily by using a screwdriver or similar tool to push the drain cap into the drain port on the main unit. Push the drain cap into the main unit's drain port until it reaches the end-stop.



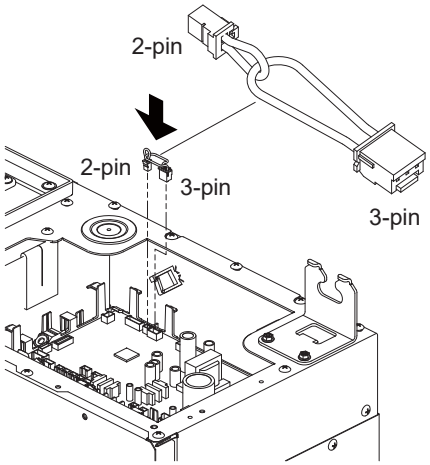
- Replace with the connector

  When installing the unit vertically, disconnect the connectors of the drain pump (3-pin) and the float switch (2-pin) from the PCB.



  Insert the connectors to the place where the supplied short-circuit connection was removed.

  Short-circuit connection (Accessories)



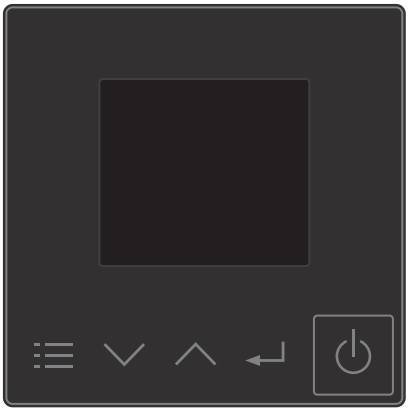
  * Pay attention to the type of connector.

- After switching on the power, invalidate the drain pump and change the heating intake temperature by setting the remote controller. (For details, see next page.)

How to make drain pump ineffective and changing heating intake temperature

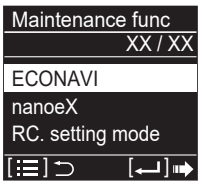
Operating the Wired Remote Controller (CZ-RTC6 series)

Stop the system before performing these steps.

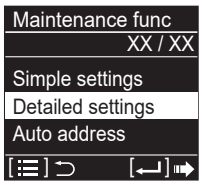


CZ-RTC6 series

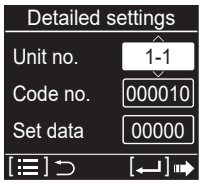
1. Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.



2. Press the ∨ or ∧ button to see each menu.
   Select “Detailed settings” on the LCD display and press the ↵ button.
   The “Detailed settings” screen appears on the LCD display.



3. Select the “Unit no.” by pressing the ∨ or ∧ button.
   After selecting “Unit no.”, press the ↵ button and proceed to Step 4.
   If the ☰ button is pressed, proceed to Step 7.



4. Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

   Change the “Code no.” one digit at a time so that it becomes [00003F] along with the following procedures.

   Change the value by pressing the ∨ or ∧ button.
   After changing the value, press the ↵ button and set the next digit.

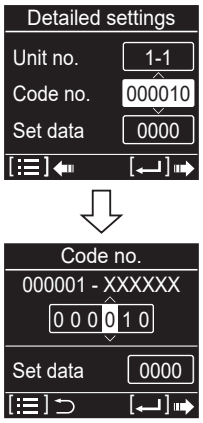


Fig. A

   Change the value by pressing the ∨ or ∧ button.
   After changing the value, press the ↵ button and set the next digit.

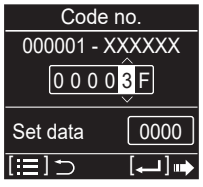


Fig. B

   Change the value by pressing the ∨ or ∧ button.
   After changing all digits, press the ↵ button and proceed to Step 5.

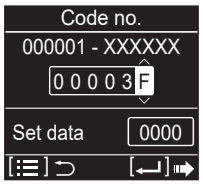


Fig. C

5. Select one of the Setting Data “0001” by pressing the ▽ or △ button.

Code no.	Item	Set data	
		*	
00003F	make drain pump ineffective	0007 or 0000	0001

* Setting at factory shipment

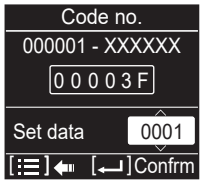
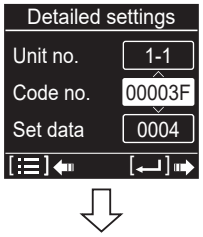


Fig. D

After selecting “Set data”, press the ↵ button.



Change the “Code no.” one digit at a time so that it becomes [000006] along with the following procedures.

Change the value by pressing the ▽ or △ button.
After changing the value, press the ↵ button and set the next digit.

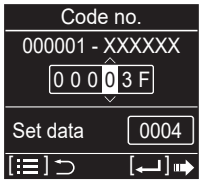


Fig. E

Change the value by pressing the ▽ or △ button.
After changing the value, press the ↵ button and set the next digit.

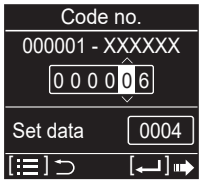


Fig. F

Change the value by pressing the ▽ or △ button.
After changing all digits, press the ↵ button and proceed to Step 6.

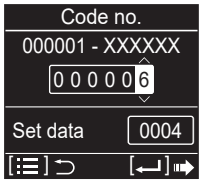


Fig. G

6. Select one of the Setting Data “0000” by pressing the ▽ or △ button.

Code no.	Item	Set data	
		*	
000006	changing heating intake temperature	0004	0000

* Setting at factory shipment

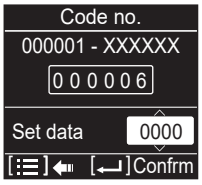


Fig. H

After selecting “Set data”, press the ↵ button.
If you wish to change the selected indoor unit or finish setting, press the ☰ button twice (the display returns to Step 3).

7. If the ☰ button is pressed under the display Step 3 the following display (Detailed setting-end screen) (Fig. I) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button. (Return to normal remote controller display.)

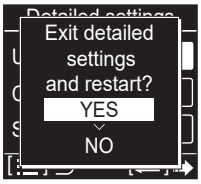
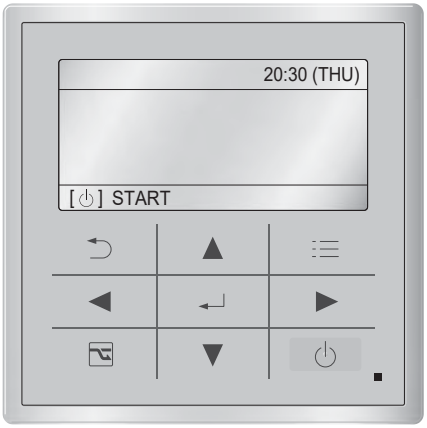


Fig. I

Operating the High-spec Wired Remote Controller (CZ-RTC5B)



CZ-RTC5B

After completing the address setting under the Section "8. TEST RUN", carry out the following procedure.

1. Keep pressing the ⮌, ↵ and ▶ buttons simultaneously for 4 or more seconds.
   The "Maintenance func" screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
⇕ Sel. ◀ ▶ Page [↵] Confirm

2. Press the ▼ or ▲ button to see each menu.
   If you wish to see the next screen instantly, press the ◀ or ▶ button.
   Select "8. Detailed settings" on the LCD display and press the ↵ button.

Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
⇕ Sel. ◀ ▶ Page [↵] Confirm

   The "Detailed settings" screen appears on the LCD display.
   Select the "Unit no." by pressing the ▼ or ▲ button for changes.

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	10	0005
⇕ Sel. ▶ Next		

3. Select the "Code no." by pressing the ◀ or ▶ button.
   Change the "Code no." to "3F" by pressing the ▼ or ▲ button (or keeping it pressed).

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	3F	0007
⇕ Sel. ▶ Next		

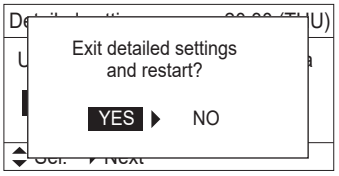
4. Select the "Set data" by pressing the ◀ or ▶ button.
   ("0007" or "0000" set at shipment) Change the Setting Data "0001" by pressing the ▼ or ▲ button.
   Then press the ↵ button.

5. Select the "Code no." by pressing the ◀ or ▶ button.
   Change the "Code no." to "06" by pressing the ▼ or ▲ button (or keeping it pressed).

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	06	0004
⇕ Sel. ▶ Next		

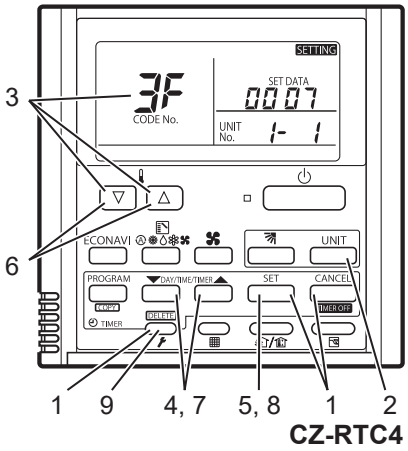
6. Select the "Set data" by pressing the ◀ or ▶ button. ("0004" set at shipment)
   Change the Setting Data "0000" by pressing the ▼ or ▲ button.
   Then press the ↵ button.

7. Select the "Unit no." by pressing the ◀ or ▶ button and press the ⮌ button.
   The "Exit detailed settings and restart?" (Detailed setting-end) screen appears on the LCD display.
   Select "YES" and press the ↵ button.



Operating the Timer Remote Controller (CZ-RTC4)
Setting Item Code "3F" and "06"

1. Press and hold down the ⏻, CANCEL and SET buttons simultaneously for 4 or more seconds. (SETTING, the Unit No., Item Code and Detailed Data will blink on the LCD display.)
2. The indoor unit numbers in the group control will be sequentially displayed whenever the Unit Select button is pressed UNIT. Only the fan motor for the selected indoor unit will operate during this time.
3. Specify the "3F" item code by pressing the ▽ / △ buttons for the temperature setting buttons and confirm the values. ("0007" or "0000" set at shipment)
4. Press the DAY / TIMER buttons for the time to amend the values for the set data. Select "0001".
5. Press the SET button. The display will stop blinking and remain illuminated.
6. Specify the "06" item code by pressing the ▽ / △ buttons for the temperature setting buttons and confirm the values. ("0004" set at shipment)
7. Press the DAY / TIMER buttons for the time to amend the values for the set data. Select "0000".
8. Press the SET button. The display will stop blinking and remain illuminated.
9. Press the ⏻ button to return to normal remote controller display.



CZ-RTC4

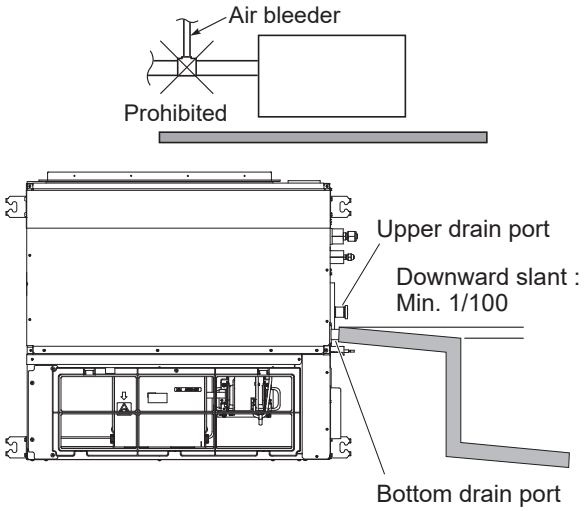
* Failure to make this setting may cause malfunction of the drain pump.

NOTE

Make sure the drain pipe has a downward gradient (1/100 or more) and that there are no water traps.

⚠ CAUTION

- Do not install an air bleeder as this may cause water to spray from the drain pipe outlet.



(1) Drain hose connection

- The drain hose is connected below the refrigerant tubing.

(2) Installing the drain hose

- First insert the drain hose (supplied) to the hose band (supplied) and then install the drain hose to the unit drain port.
- Insert until the drain hose bumps to the end.
- Attach the hose band to make the fixed portion 45 degrees upper gradient according to a vinyl tape (not supplied) of the drain hose (supplied).
- Hose band screw torque is 30 - 35 N · cm.
- Wind the vinyl tape not to blow up the hose band.
- Connect both the drain hose and PVC pipe (VP20 or similar material, not supplied). Insert until the PVC pipe bumps to the end and adhere with PVC adhesive.

⚠ CAUTION

- **Wrap the drain insulator (supplied) between the connection of the drain hose and tubing not to expose the copper tubing.**
  Also, wrap the hose band together.
  Wrap the hose band with the drain insulator, where the screw is located facing upward. Then, tighten the insulator with a vinyl tape not to cause the detachment.
  If the tubing parts remain exposed, condensation may occur.
- **Be sure to use the supplied drain hose.**
  If other commercially available hose bands are used, the drain hose may become pinched or wrinkled and there is danger of water leakage. Therefore be sure to use the supplied hose bands.
- **Connect the drain pipe so that it slopes downward from the unit to the outside.**
- **Never allow water traps to occur in the course of the piping.**
- **Insulate any piping inside the room to prevent dripping.**
- **After the drain piping, pour an appropriate amount of water into the drain pan through the opening on the side of the air discharge port. Check the water draining smoothly.**

● Checking the Drainage
Horizontal Installation Only

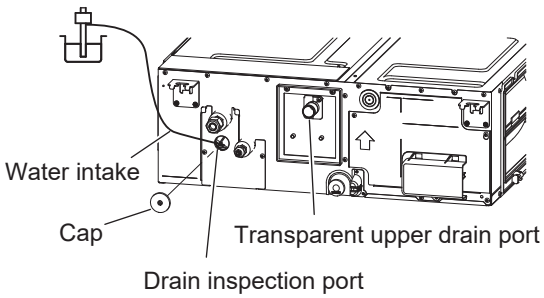
After wiring and drain piping are completed, use the following procedure to check that the water will drain smoothly. For this, prepare a bucket and wiping cloth to catch and wipe up spilled water.

(1) Connect power to the power terminal board (L/1, N/2 terminals) inside the electrical component box.

(2) Remove the tube cover and slowly pour about 1,200 cc of water through the opening into the drain pan to check drainage.

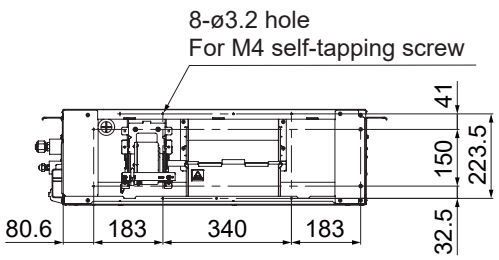
(3) Short the check pin (CHK) (6P : 1-4) on the indoor unit control PCB and operate the drain pump. Check the water flow through the transparent upper drain port and see if there is any leakage.
* If the check pin (CHK) (6P : 1-4) is shorted, the fan starts rotating at high speed and could cause injury.

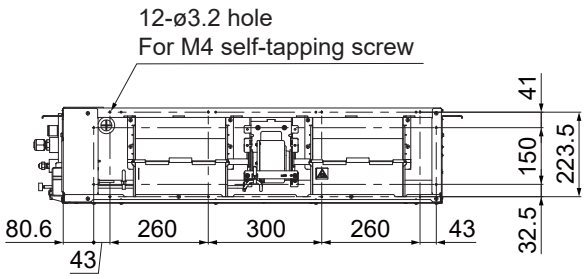
(4) When the drainage check is complete, open the check pin (CHK) (6P : 1-4) and remount the insulator and the cap onto the drain inspection port.

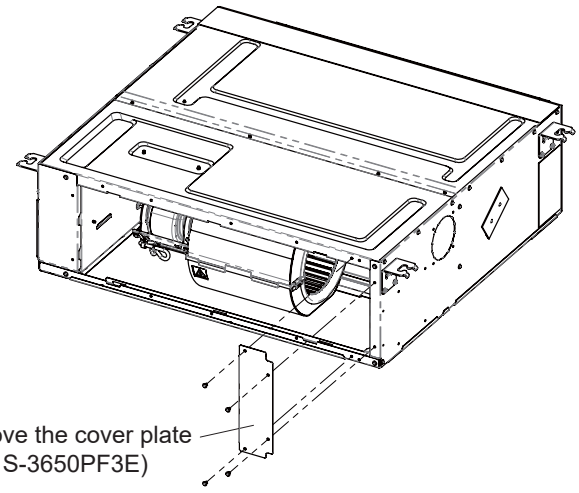


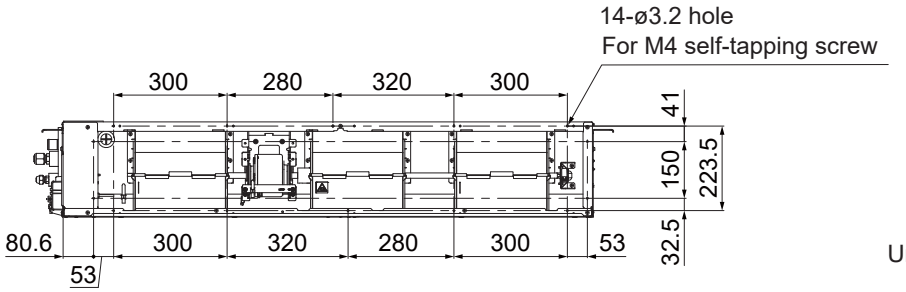
● Connecting Duct to Air Intake Port Side

(1) Install the duct (field supply).
See the figure for the dimension of the installation hole.
Use M4 self-tapping screws for installation.









Unit: mm

NOTE

To get clean air and to extend the service life of the air conditioner, an air filter must be installed in the air intake.
For installation and cleaning the air filter, consult your dealer or service center.

■ EXTERNAL STATIC PRESSURE SETTING

For middle static pressure duct type indoor units, the ventilating resistance so-called “external static pressure” becomes greatly different depending on the connected duct length, shape, number of air outlet ports and types of filters. When installing this unit, be sure to carry out the external static pressure setting in order to operate in the rated airflow volume. Choose one of the following methods from “a”, “b”, “c” or “d” as shown in the flow chart (within the dotted lines) and then make the setting accordingly.

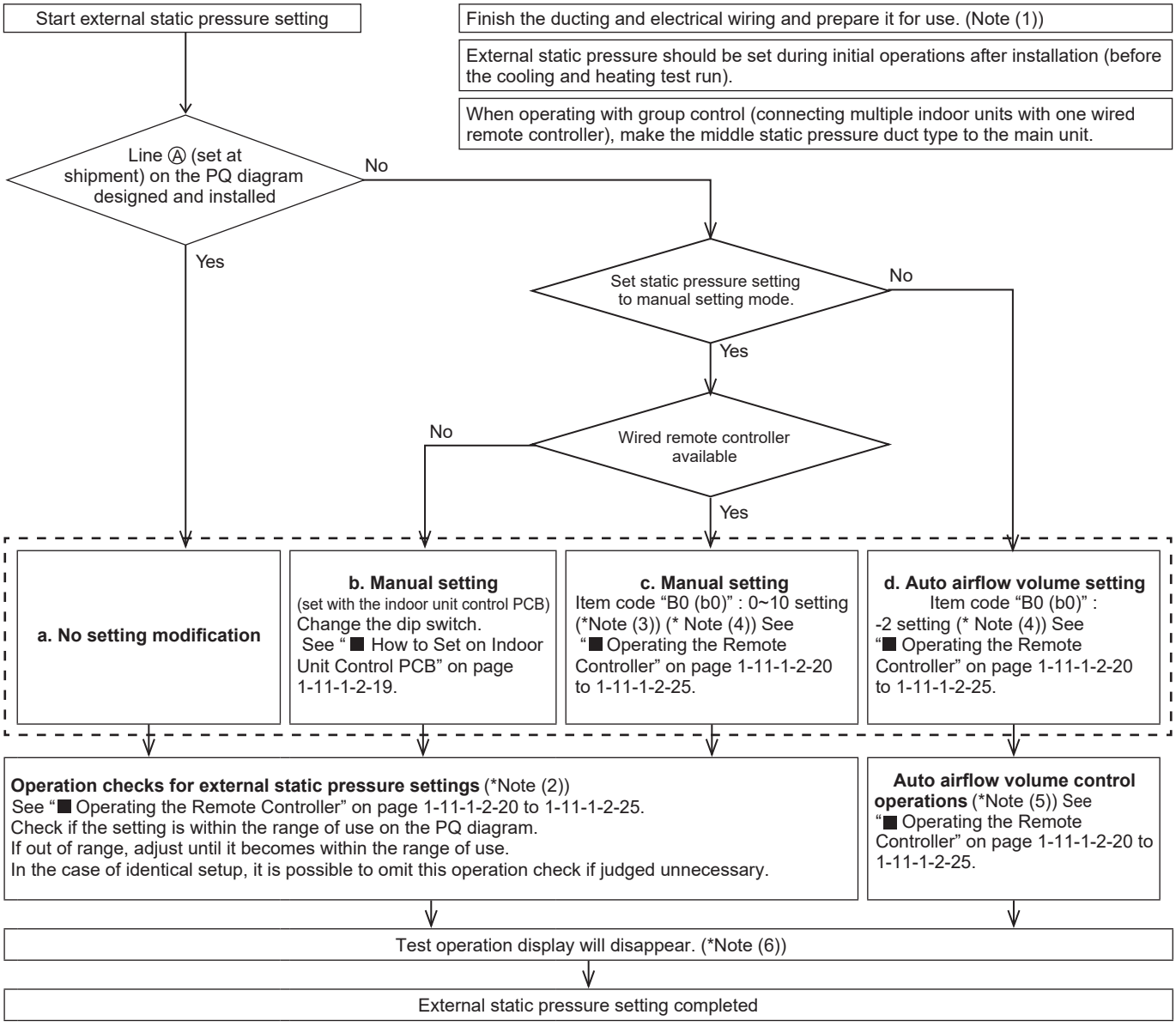
a. No setting modification ..... : Use-as-is at shipment (there are cases in which the setting may differ from the shipment setting when reset after once setting the external static pressure.)

b. Manual setting (set with the indoor unit control PCB ..... : For high static pressure. Switching method with the short-circuit connector.

c. Manual setting (set with the wired remote controller) ..... : Low static pressure ~ high static pressure

d. Auto airflow volume setting (set on the wired remote controller)..... : Air outlet volume is automatically adjusted to the rated airflow volume with the auto airflow control drive.

Flow of External Static Pressure



NOTE

(1) Check the following items before performing the setting-check operations or auto airflow volume operations.
   1) Check to make sure that the electrical wiring and ducting have been completed. Activate the stand-by mode. In particular, make sure that the closed damper located in the middle of the duct is open, if installed. Also, make sure that air filters have been installed inside the air inlet duct.
   Check to make sure air is not leaking from the joints.
   2) If multiple air outlets and air inlets are included, adjust the airflow volume ratio of all of them until they meet the design airflow ratio.
   3) Make sure the address setting has been completed.

(2) The operation check will be completed in approximately three minutes if the settings have been made correctly. The settings will be modified if they are out of the range of use (maximum 30 minutes).
If this is not completed within 31 minutes, check whether the air speed is set to “H” or not.

(3) See Table 1-11-1-2-3, 1-11-1-2-4, 1-11-1-2-5 and Fig. 1-11-1-2-2 for details on the relationship between the value of item code “B0(b0)” and the external static pressure.

(4) When set in group control (connecting multiple indoor units with one wired remote controller), set each indoor unit to item code “B0(b0)”. When amending the setting after selecting [b. Manual setting] (due to airflow path changes, etc.), it is necessary to cancel [b. Manual setting] (change the dip switch). When [b. Manual setting] has not been cancelled, [c. Manual setting] and [d. Auto airflow volume setting] will be activated if selected, but [b. Manual setting] takes precedence when the power is switched back on after power outages, etc.

(5) If this is not completed within 8 minutes, check the operation mode, air speed and air inlet temperature.

(6) When set in group control (connecting multiple indoor units with one wired remote controller), the test run operations display will disappear once the external static pressure setting check or auto airflow volume control operation check have been completed for the main unit. However, it is not possible to determine whether sub-units have completed. The test run operation display will disappear after one hour even if the external static pressure setting check or auto airflow volume control operation heck have not been completed.

CAUTION

- **Be sure to check that the external static pressure is within the range for use and then make the setting. Failure to observe this may result in insufficient airflow or water leakages. See Fig. 1-11-1-2-2 for the external static pressure setting range.**
- **There are cases in which automatic variable dampers and other mounted items may trigger the P12 alarm on systems that modify the external static pressure when the auto airflow volume control operations or setting check operations are carried out if high external static pressure is lowered. In this event, lower the dampers, etc., so that the external static pressure reaches its lowest level, and then carry out the auto airflow volume control operations or setting check operations.**
- **Be sure to set the [External Static Pressure Setting] once again after amending the airflow path for the duct or air outlet after setting the external static pressure.**
- **Set the air inlet temperature within the range for use. The auto airflow volume control will not function if the air inlet temperature is over 45°C or if operation is other than fan mode.**

■ How to Set on Indoor Unit Control PCB

1. Turn off the power breaker to halt the supply of electricity to the indoor unit control PCB.
2. Open the electrical component box cover, then check the indoor unit control PCB. (Fig. 1-11-1-2-1)
3. Change the dip switch (SW001) of the indoor unit control PCB according to the setting selected in Table 1-11-1-2-2.

Table 1-11-1-2-2

External static pressure at the time of rated airflow volume	DIP switch
10 Pa	TP6 TP3 TP1 ON 1 2 3
50 Pa	TP6 TP3 TP1 ON 1 2 3
110 Pa	TP6 TP3 TP1 ON 1 2 3

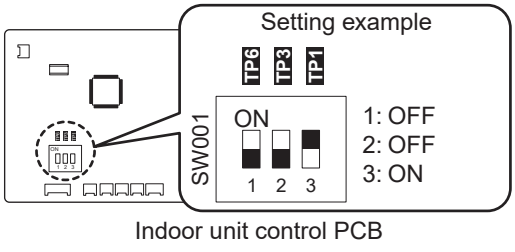
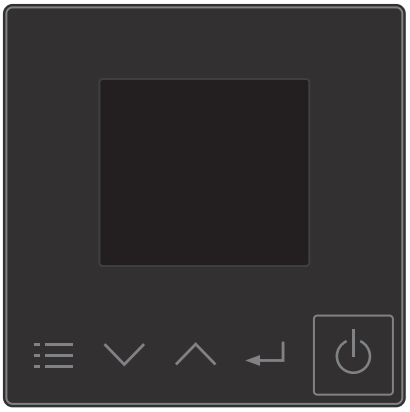


Fig. 1-11-1-2-1

■ Operating the Wired Remote Controller (CZ-RTC6 series)

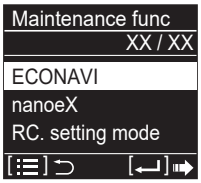


CZ-RTC6 series

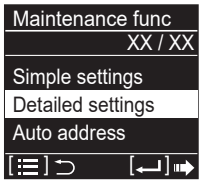
How to set the external static pressure

Stop the system before performing these steps.

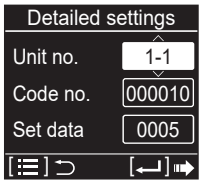
1. Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.



2. Press the ∨ or ∧ button to see each menu.
   Select “Detailed settings” on the LCD display and press the ↵ button.
   The “Detailed settings” screen appears on the LCD display.



3. Select the “Unit no.” by pressing the ∨ or ∧ button.
   After selecting “Unit no.”, press the ↵ button and proceed to Step 4.
   If the ☰ button is pressed, proceed to Step 6.



4. Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

   Change the “Code no.” one digit at a time so that it becomes [0000B0] along with the following procedures.

   Change the value by pressing the ∨ or ∧ button.
   After changing the value, press the ↵ button and set the next digit.

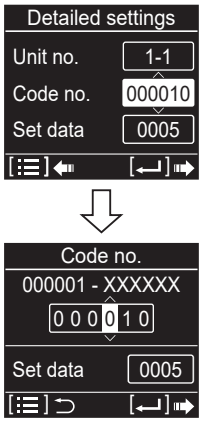


Fig. A

   Change the value by pressing the ∨ or ∧ button.
   After changing the value, press the ↵ button and set the next digit.

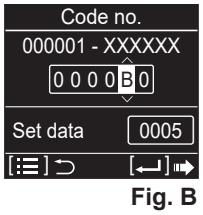


Fig. B

   Change the value by pressing the ∨ or ∧ button.
   After changing all digits, press the ↵ button and proceed to Step 5.

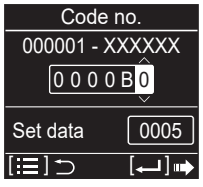


Fig. C

5. Select one of the “Set data” among “0001”–“0010” according to the desired external static pressure setting by pressing the ▽ or △ button.

   (See Table 1-11-1-2-3.)
   When setting to auto airflow volume control:
   Select the setting data to “-002”.

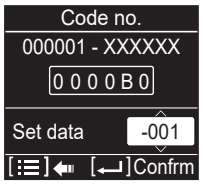


Fig. D

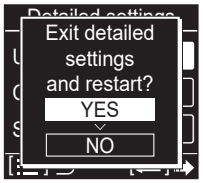
   After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from **Fig. A**.)
   If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step 3).

Table 1-11-1-2-3 Setting the external static pressure

Indoor unit type				Item code
3650	6071	1014		
Outdoor unit type				
–	100	125	140	B0
External static pressure of the rated airflow volume (Pa)				
150	150	150		0010
140	140	140		0009
130	130	130		0008
120	120	120		0007
110	110	110		0006
90	90	90		0005
70	70	70		0004
50	50	50 *		0003
30 *	40 *	30		0002
10	10	10		0001
No auto airflow volume setting				-001
Auto airflow volume setting				-002

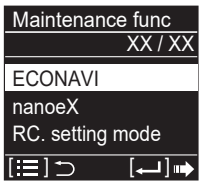
* Setting at shipment

6. If the ☰ button is pressed under the display Step 3, the following display (Detailed setting-end screen) appears.
   Then select “YES” by pressing the ▽ or △ button and press the ↵ button.

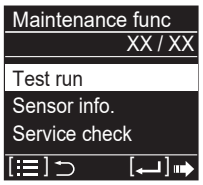


Auto External Static Pressure Setting Operation

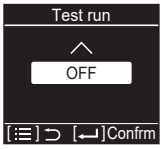
7. Keep pressing the ☰, △ and ↵ buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.



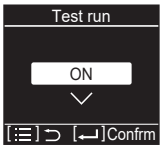
8. Press the ▽ or △ button to see each menu.
   Select “Test run” on the LCD display and press the ↵ button.



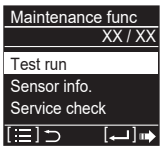
The “Test run” screen appears on the LCD display.



Change the display from “OFF” to “ON” by pressing the ▽ or △ button.
Then press the ↵ button.



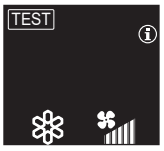
The “Maintenance func” screen appears on the LCD display.



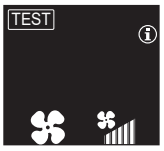
9. Press the ☰ button.
“TEST” will be displayed on the LCD display.



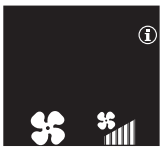
10. Press the ⏻ button. Test run will be started.
Test run setting mode screen appears on the LCD display.
Current fan speed can be checked by pressing the ☰ button.



11. Set the operation mode to “ (MODE FAN)” and fan speed mode to “ (FAN SPEED)” by pressing the ☰ and ▽ or △ buttons.
Then press the ↵ button.



The fan motor will be activated, the auto external static pressure setting operation and setting-check operation will be performed for about 3 to 30 minutes.
The fan speed will change automatically while these operations are in progress.
When these operations completed, “TEST” will be disappeared from the LCD display.



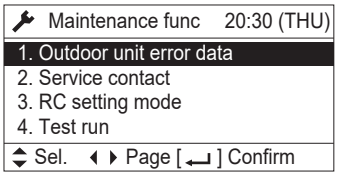
■ Operating the High-spec Wired Remote Controller (CZ-RTC5B)



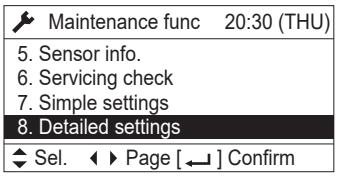
CZ-RTC5B

How to set the external static pressure

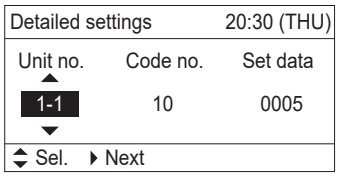
1. Keep pressing the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
   The “Maintenance func” screen appears on the LCD display.



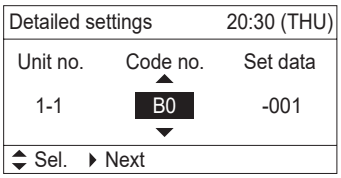
2. Press the ▼ or ▲ button to see each menu.
   If you wish to see the next screen instantly, press the ◀ or ▶ button.
   Select “8. Detailed settings” on the LCD display and press the ↵ button.



   The “Detailed settings” screen appears on the LCD display.
   Select the “Unit no.” by pressing the ▼ or ▲ button for changes.



3. Select the “Code no.” by pressing the ◀ or ▶ button.
   Change the “Code no.” to “B0” by pressing the ▼ or ▲ button (or keeping it pressed).



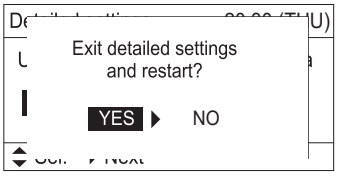
4. Select the “Set data” by pressing the ◀ or ▶ button.
   Select one of the “Set data” among “0001” – “0010 ” according to the desired external static pressure setting by pressing the ▼ or ▲ button.
   Then press the ↵ button.
   (See Table 1-11-1-2-4.)
   When setting to auto airflow volume control:
   Select the setting data to “-002”.
   Then press the ↵ button.

Table 1-11-1-2-4 Setting the external static pressure

Indoor unit type				Item code
3650	6071	1014		
Outdoor unit type				
–	100	125	140	**B0**
External static pressure of the rated airflow volume (Pa)				
150	150	150		**0010**
140	140	140		**0009**
130	130	130		**0008**
120	120	120		**0007**
110	110	110		**0006**
90	90	90		**0005**
70	70	70		**0004**
50	50	50 *		**0003**
30 *	40 *	30		**0002**
10	10	10		**0001**
No auto airflow volume setting				**-001**
Auto airflow volume setting				**-002**

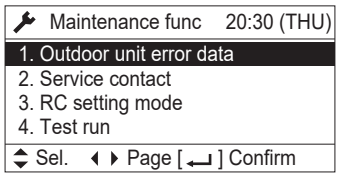
* Setting at shipment

5. Select the “Unit no.” by pressing the ◀ or ▶ button and press the ⮌ button.
   The “Exit detailed settings and restart?” (Detailed setting-end) screen appears on the LCD display.
   Select “YES” and press the ↵ button.
   When the setting is completed, perform the test run for the external static pressure setting described in “Auto External Static Pressure Setting Operation”.



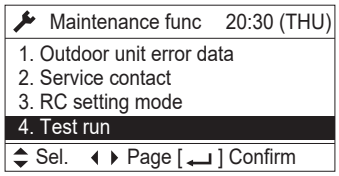
Auto External Static Pressure Setting Operation

6. Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
   The "Maintenance func" screen appears on the LCD display.

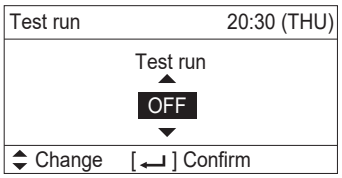


7. Press the [▼] or [▲] button to see each menu.
   If you wish to see the next screen instantly, press the [◀] or [▶] button.

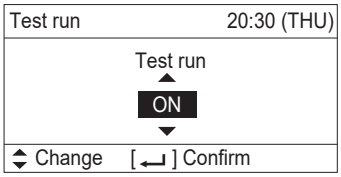
   Select "4. Test run" on the LCD display and press the [↵] button.



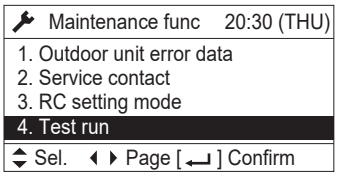
   The "Test run" screen appears on the LCD display.



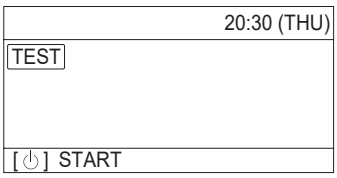
   Change the display from OFF to ON by pressing the [▼] or [▲] button. Then press the [↵] button.



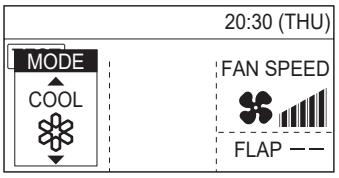
   The "Maintenance func" screen appears on the LCD display.



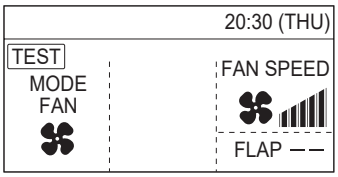
8. Press the [↩] button. "TEST" will be displayed on the LCD display.



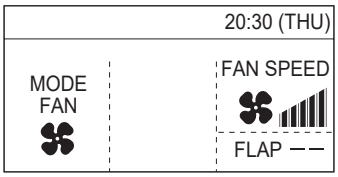
9. Press the [⏻] button. Test run will be started.
   Test run setting mode screen appears on the LCD display.



10. Set the operation mode to (MODE FAN)" and fan speed mode to" (FAN SPEED)" by pressing the [◀] or [▶] button or [▼] or [▲] button.
    Then press the [↵] button.



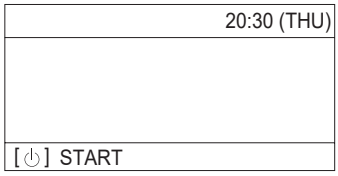
    The fan motor will be activated, the auto external static pressure setting operation and setting-check operation will be performed for about 3 to 30 minutes.
    The fan speed will change automatically while these operations are in progress. When these operations completed, "TEST" will be disappeared from the LCD display.



NOTE:

The auto external static pressure setting operation and setting-check operation will not be performed unless " (MODE FAN)" and " (FAN SPEED)" have been selected.

11. Press the [⏻] button.
    The LCD display will be returned to the initial screen.



NOTE:

Failure to set this parameter may result in decreased airflow and condensation.

■ Operating the Timer Remote Controller (CZ-RTC4)

● Setting Item Code "bO"

1. Press and hold down the ⏻, CANCEL and SET buttons simultaneously for 4 or more seconds.
   (SETTING, the Unit No., Item Code and Detailed Data will blink on the LCD display.)
2. The indoor unit numbers in the group control will be sequentially displayed whenever the Unit Select button is pressed UNIT.
   Only the fan motor for the selected indoor unit will operate during this time.
3. Specify the "bO" item code by pressing the ▽ / △ buttons for the temperature setting buttons and confirm the values.
   ("-001" set at shipment)
4. Press the DAY/ / /TIMER buttons for the time to amend the values for the set data.
   See Table 1-11-1-2-5 and Fig. 1-11-1-2-2 and select a value between"0001" and "0010".
   Select "-002" if the auto airflow volume setting is activated.
5. Press the SET button.
   The display will stop blinking and remain illuminated.
6. Press the ⏻ button. The fan motor will stop operating and the LCD display will return to the normal stop mode.

Auto Airflow Volume Control Operations and External Static Pressure Setting-Check Operation

1. Press and hold down the ⏻ button for 4 or more seconds.
   "TEST" will be displayed on the LCD display.
2. Press the ⏻ button to start the test run.
3. Select the operation mode (Fan) by pressing the (Mode select) button.
   Then select the fan speed by pressing the (Fan speed) button.

NOTE

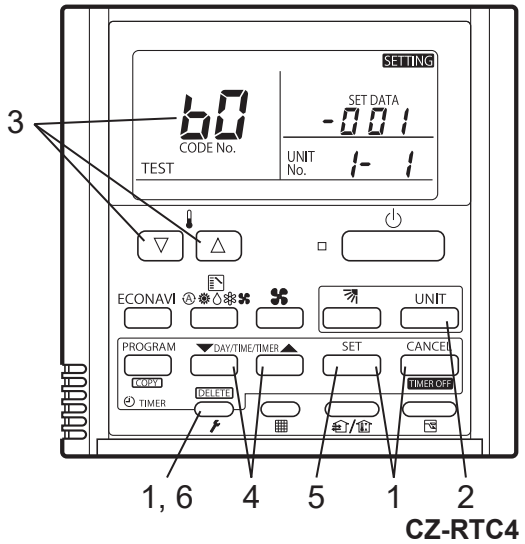
Auto airflow volume control operations and external static pressure setting-check operations will not be performed unless the above settings are made.

4. The fan motor will be activated and auto airflow volume control operations or external static pressure setting-check operations will be started.
   The power of the airflow will change while these operations are in progress.
   The external static pressure setting-check operations and auto airflow volume control operations will be completed in about 3 to 30 minutes.
   "TEST" display will be disappeared from the LCD display.
5. Press the ⏻ button to halt the test run.

Table 1-11-1-2-5 Setting the external static pressure

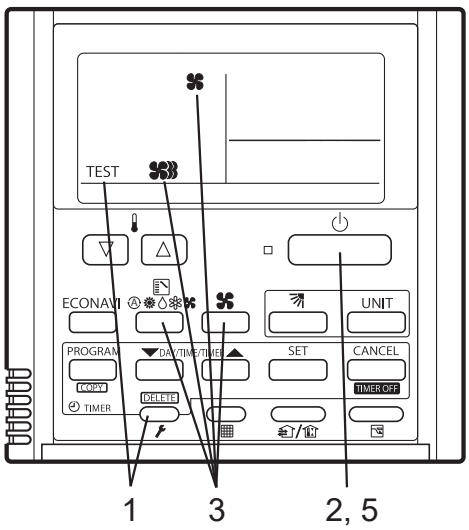
Indoor unit type				Item code
3650	6071	1014		
Outdoor unit type				
–	100	125	140	bO
External static pressure of the rated airflow volume (Pa)				
150	150	150		0010
140	140	140		0009
130	130	130		0008
120	120	120		0007
110	110	110		0006
90	90	90		0005
70	70	70		0004
50	50	50 *		0003
30 *	40 *	30		0002
10	10	10		0001
No auto airflow volume setting				-001
Auto airflow volume setting				-002

* Setting at shipment

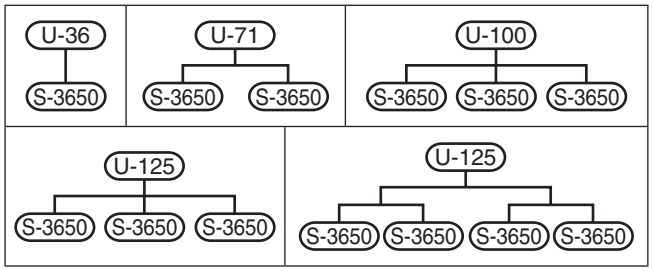


CZ-RTC4

*Failure to set this parameter may result in decreased airflow and condensation.



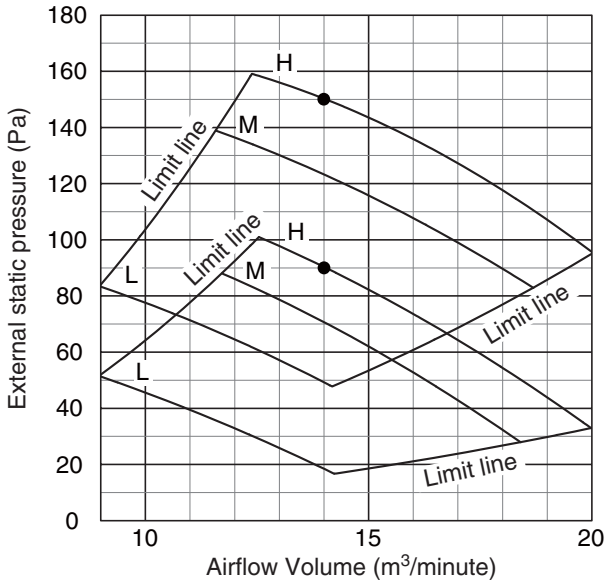
Indoor Units Type 3650 (36, 45)



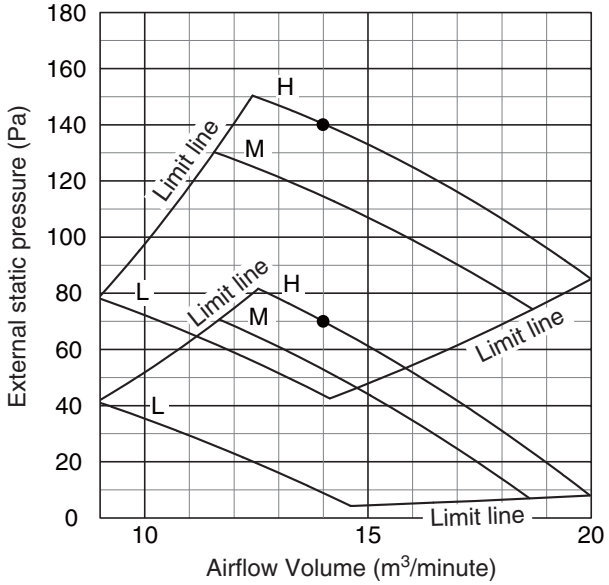
Indoor Fan Performance

PQ diagram (Fig. 1-11-1-2-2)

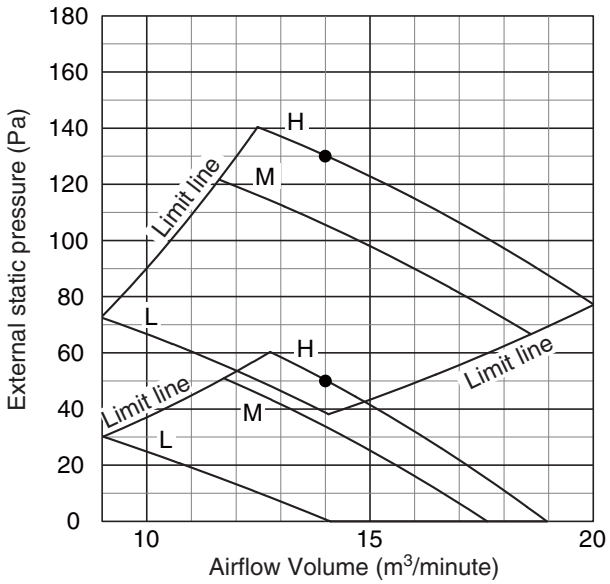
External static pressure 150Pa, 90Pa



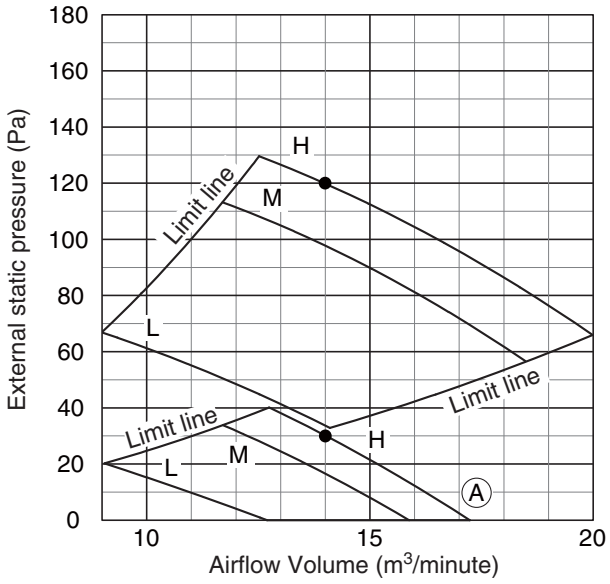
External static pressure 140Pa, 70Pa



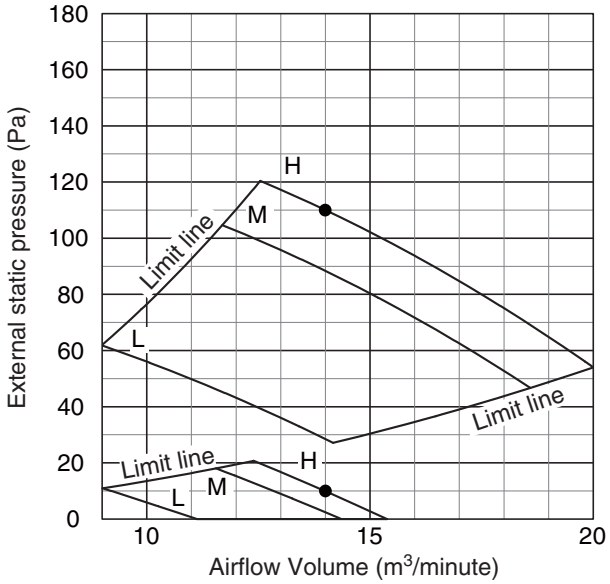
External static pressure 130Pa, 50Pa



External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



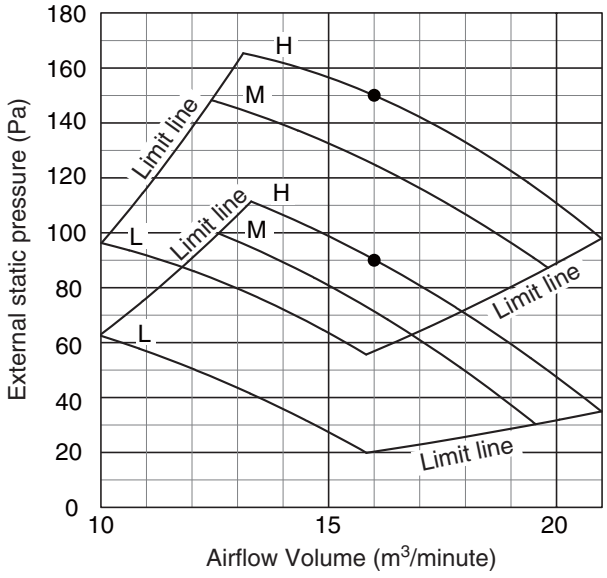
Indoor Units Type 3650 (50)

U-50	U-100	U-140
S-3650	S-3650 S-3650	S-3650 S-3650 S-3650

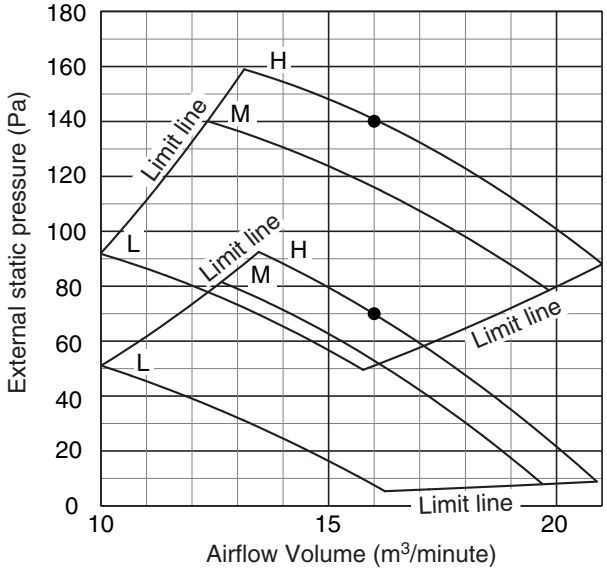
Indoor Fan Performance

PQ diagram (Fig. 1-11-1-2-2)

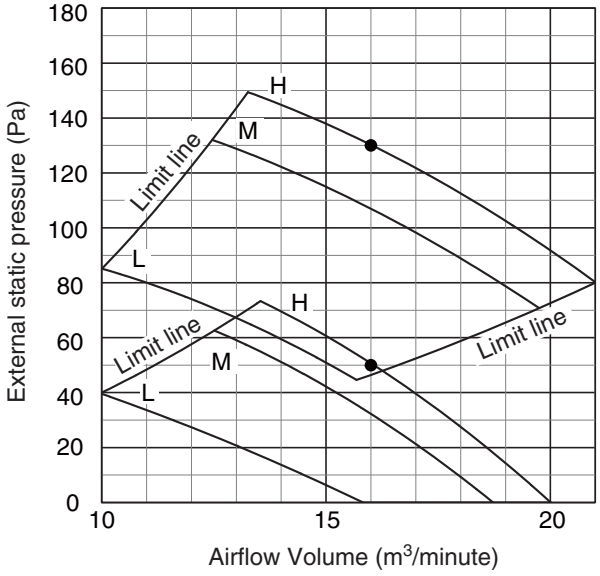
External static pressure 150Pa, 90Pa



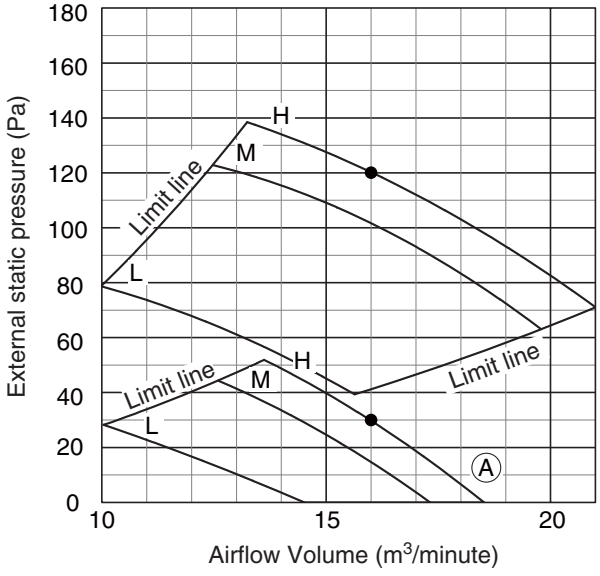
External static pressure 140Pa, 70Pa



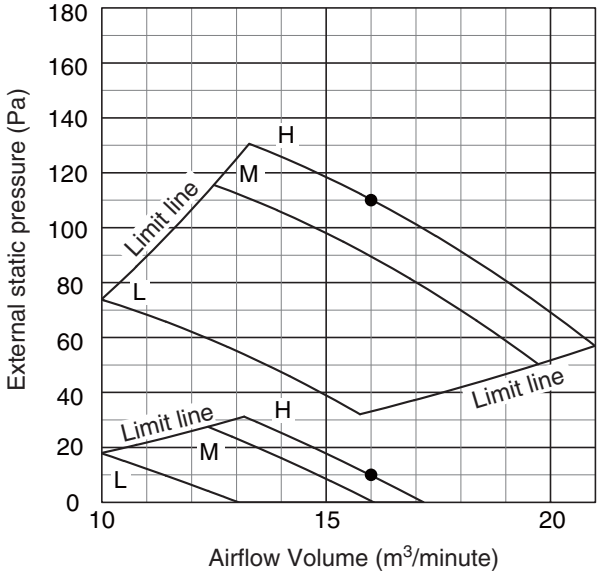
External static pressure 130Pa, 50Pa



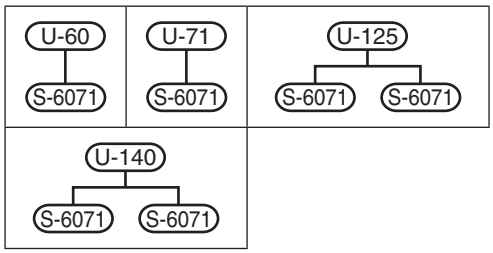
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



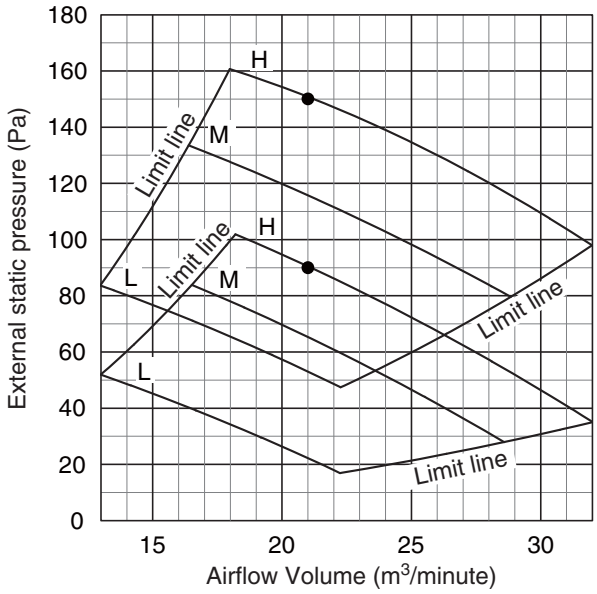
Indoor Units Type 6071 (60, 71)



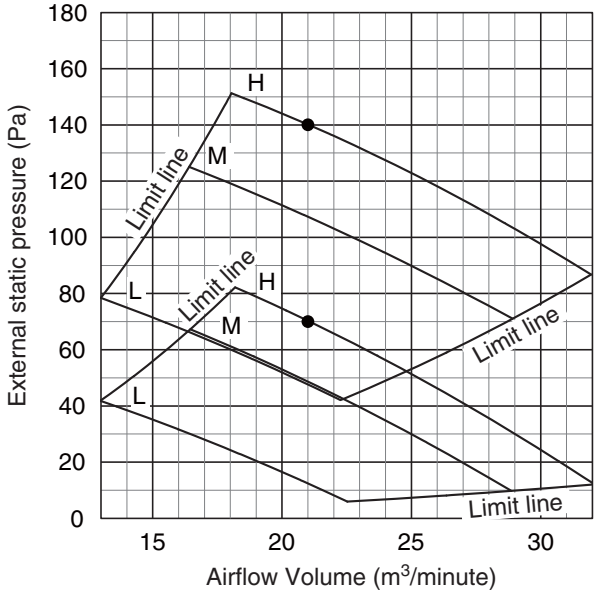
Indoor Fan Performance

PQ diagram (Fig. 1-11-1-2-2)

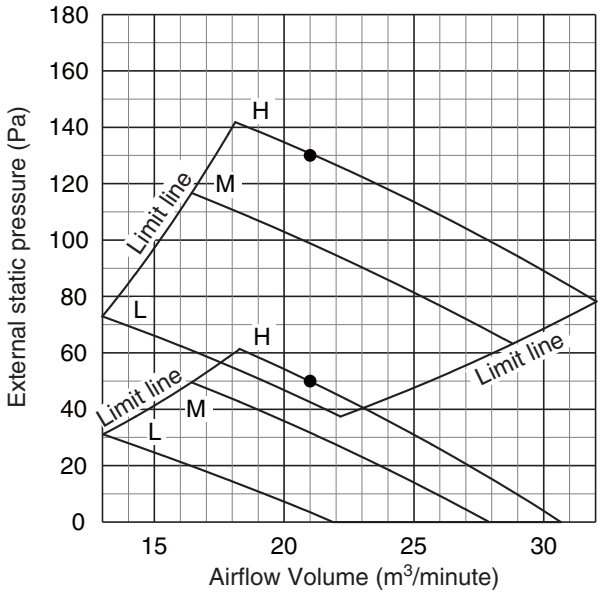
External static pressure 150Pa, 90Pa



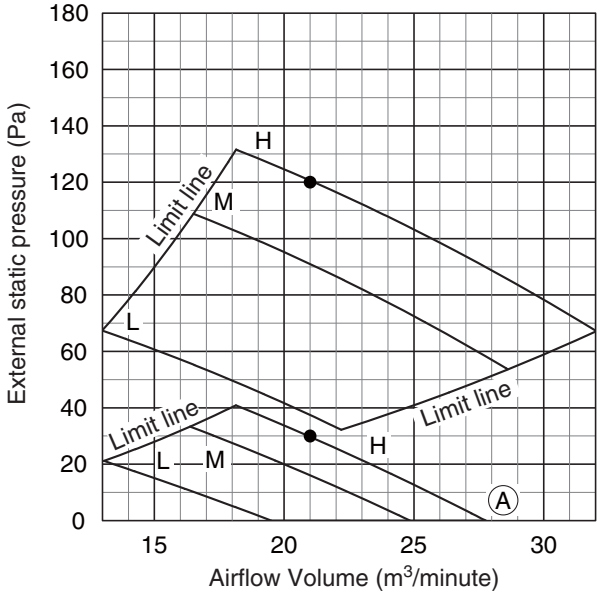
External static pressure 140Pa, 70Pa



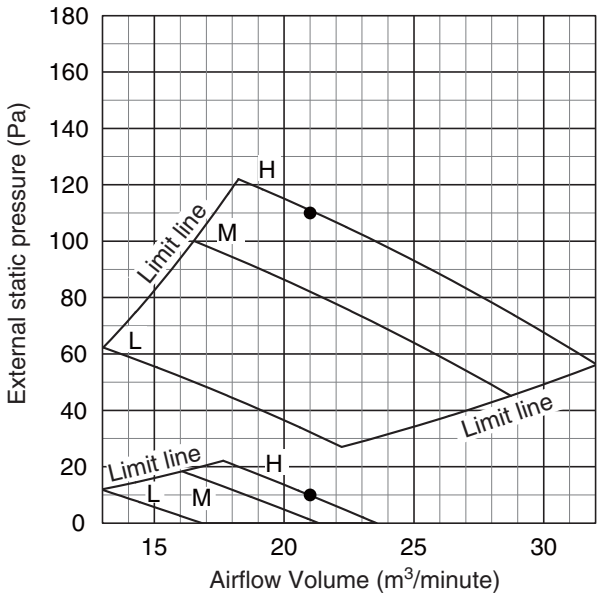
External static pressure 130Pa, 50Pa



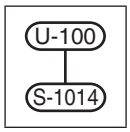
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



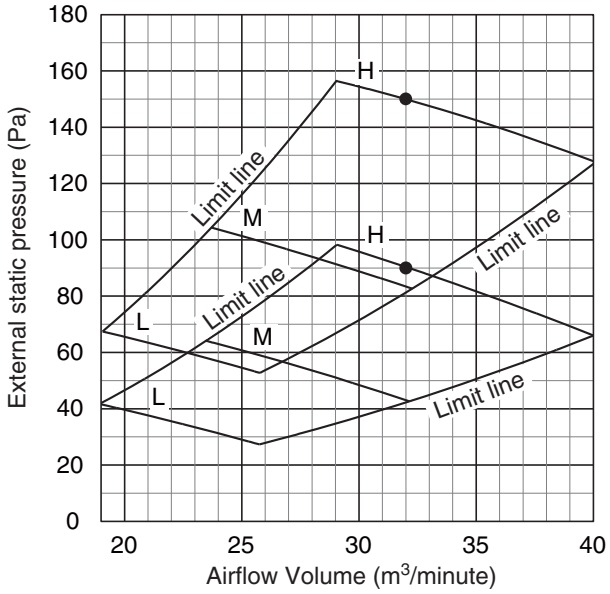
Indoor Units Type 1014 (100)



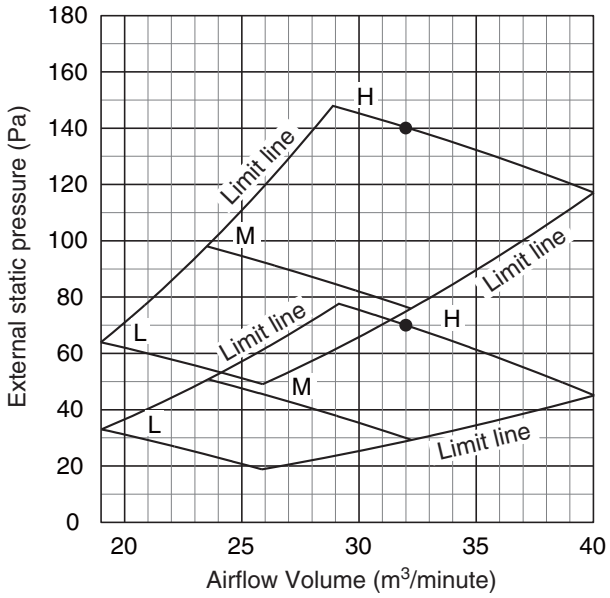
Indoor Fan Performance

PQ diagram (Fig. 1-11-1-2-2)

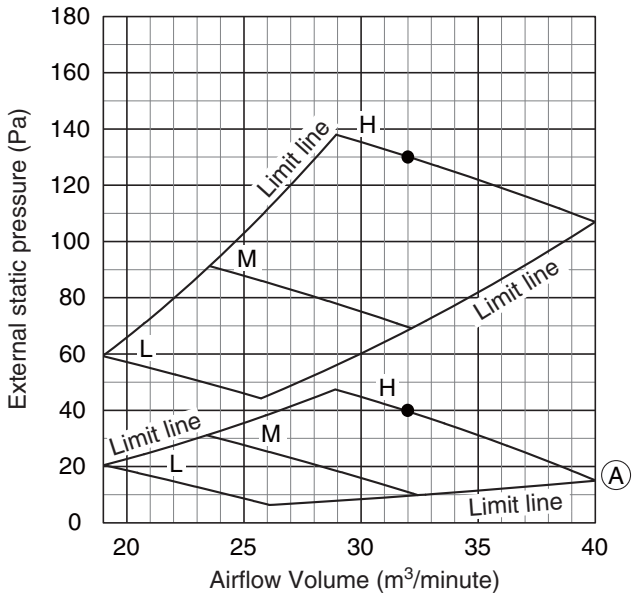
External static pressure 150Pa, 90Pa



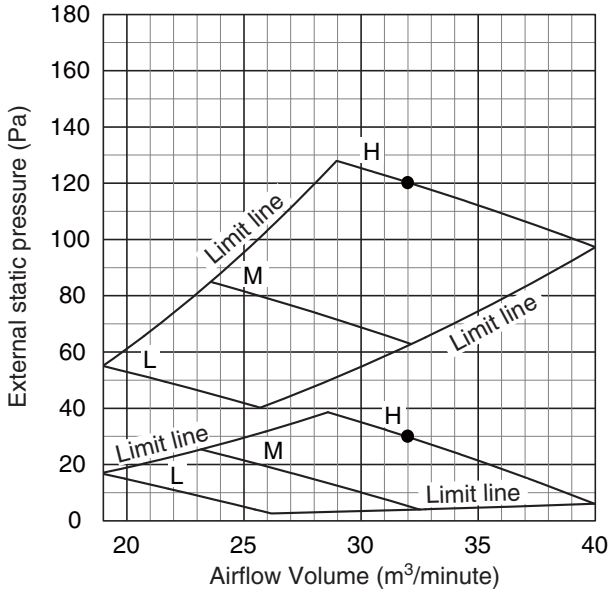
External static pressure 140Pa, 70Pa



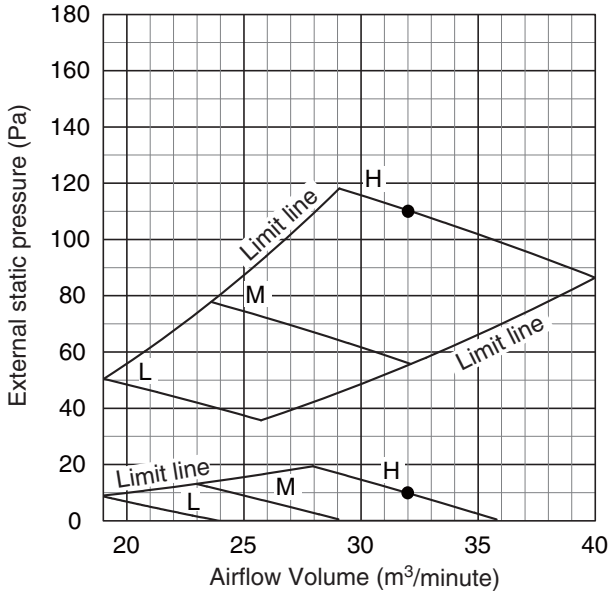
External static pressure 130Pa, 40Pa



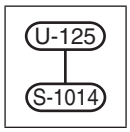
External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



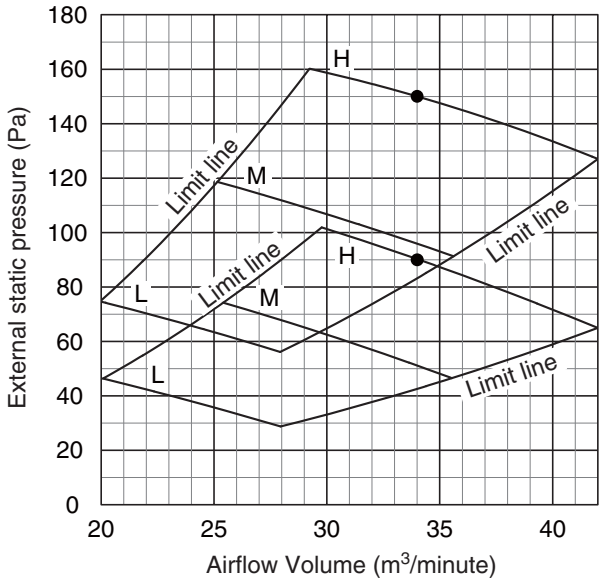
Indoor Units Type 1014 (125)



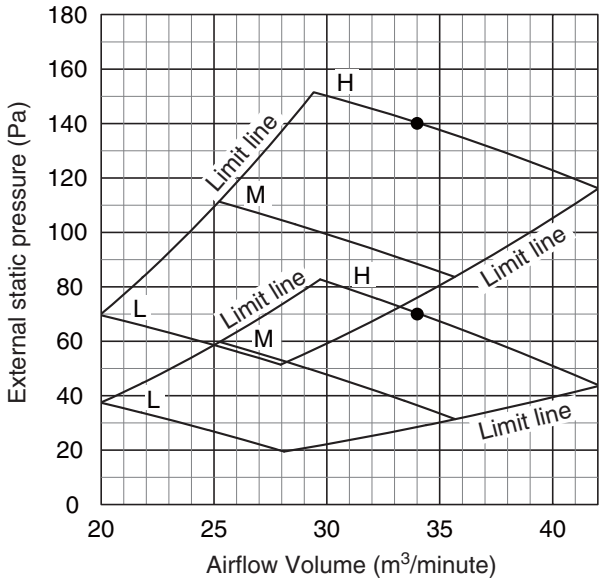
Indoor Fan Performance

PQ diagram (Fig. 1-11-1-2-2)

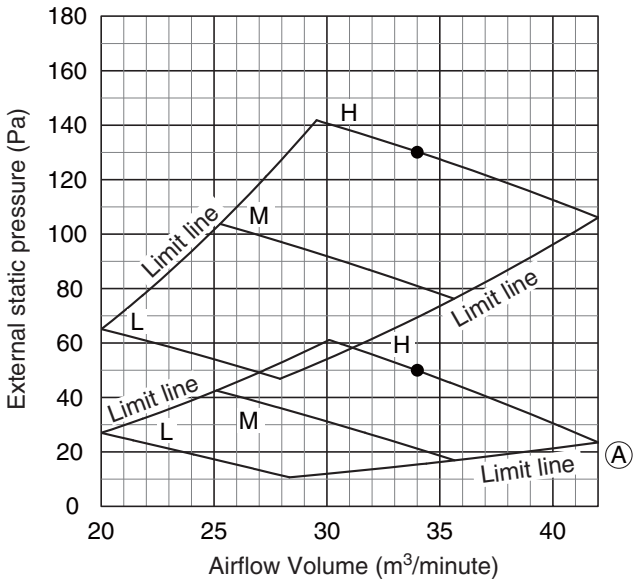
External static pressure 150Pa, 90Pa



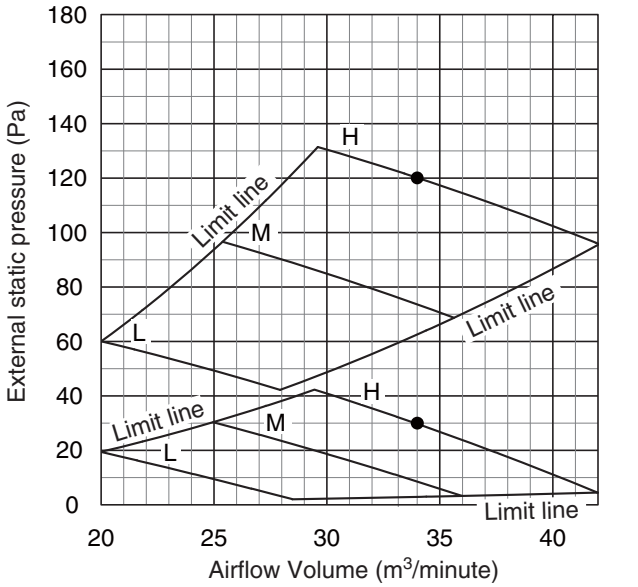
External static pressure 140Pa, 70Pa



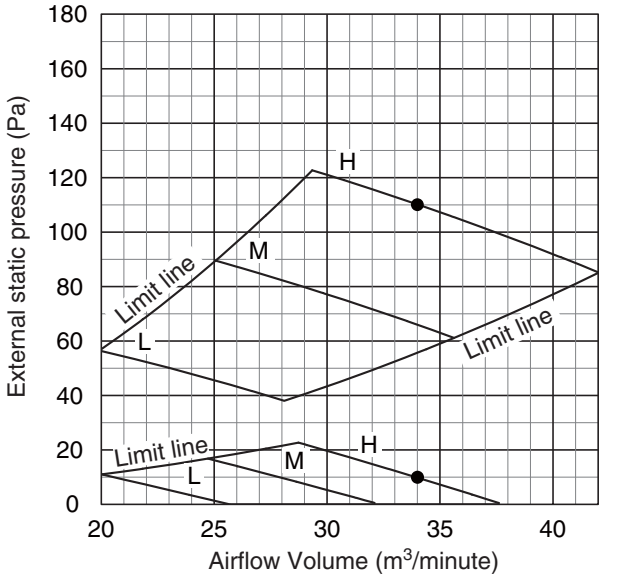
External static pressure 130Pa, 50Pa



External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa



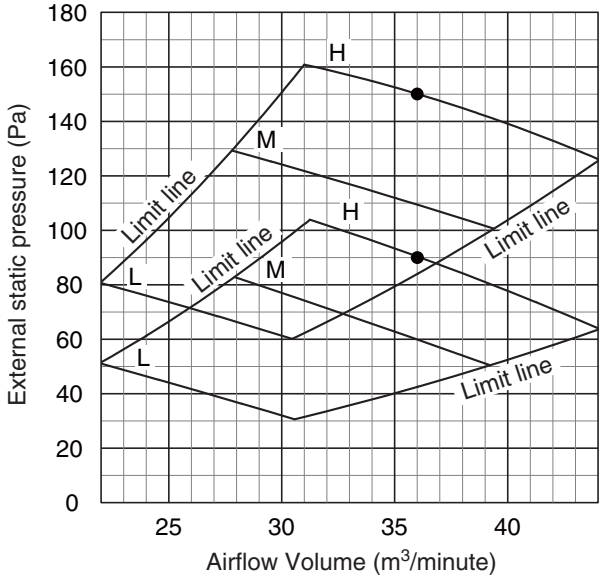
Indoor Units Type 1014 (140)

U-140
S-1014

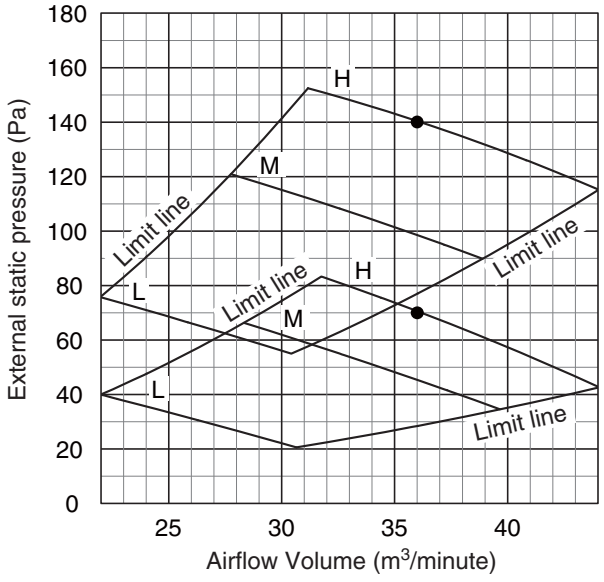
Indoor Fan Performance

PQ diagram (Fig. 1-11-1-2-2)

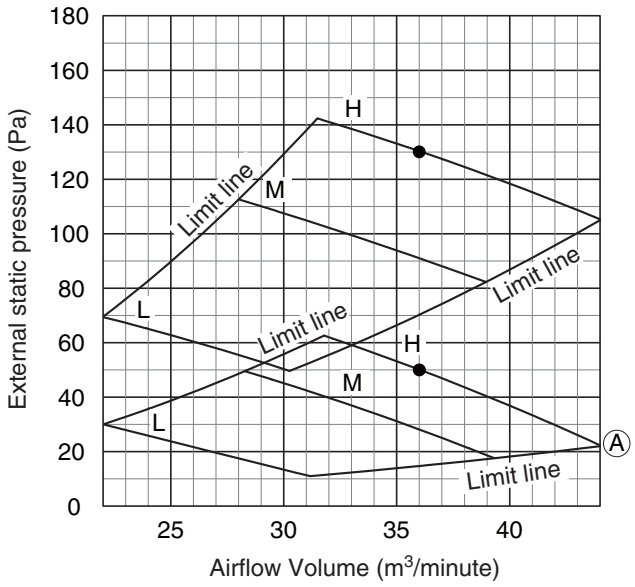
External static pressure 150Pa, 90Pa



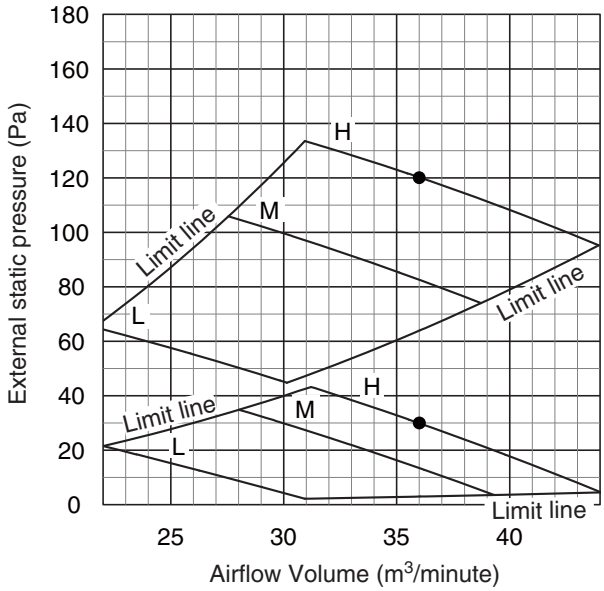
External static pressure 140Pa, 70Pa



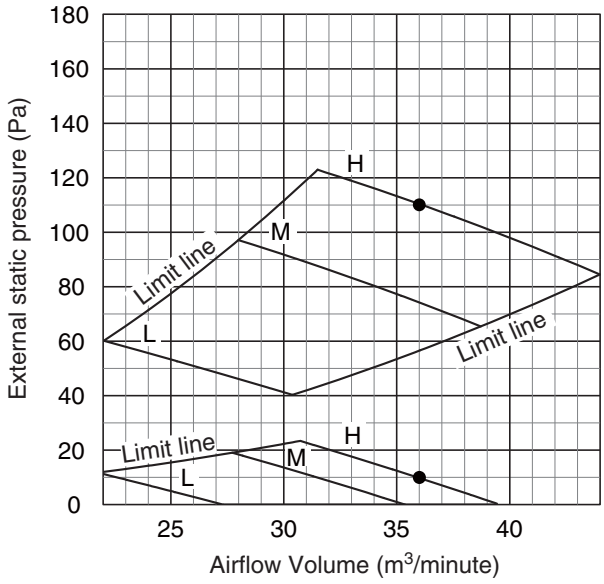
External static pressure 130Pa, 50Pa



External static pressure 120Pa, 30Pa



External static pressure 110Pa, 10Pa

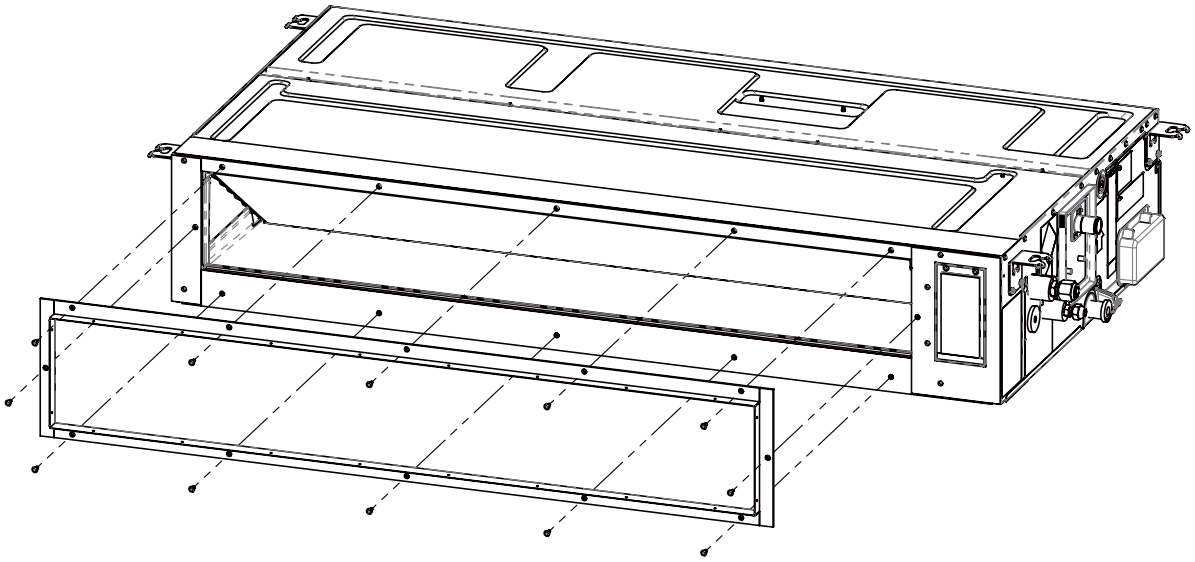


■ **Optional Duct Frange**

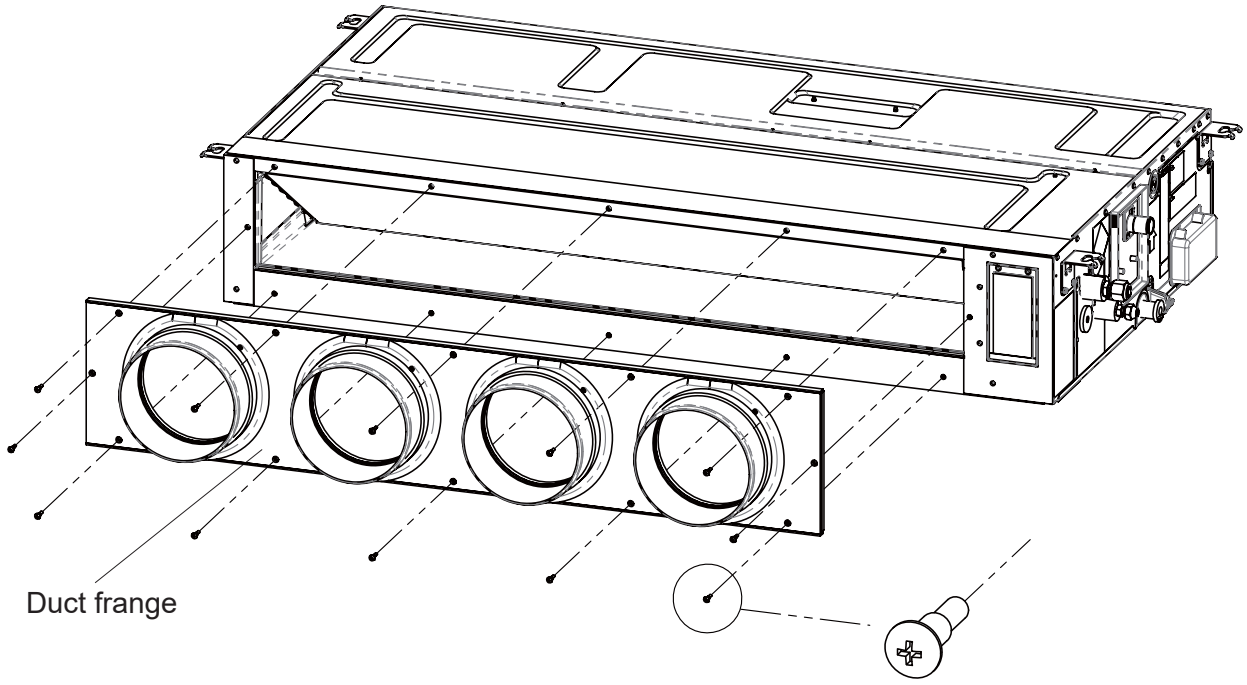
● **How to Install Duct Frange**

- **4 circle duct frange (CZ-160DAF2)**
- **3 circle duct frange (CZ-90DAF2)**
- **2 circle duct frange (CZ-56DAF2)**

1. Remove the air outlet duct frange.

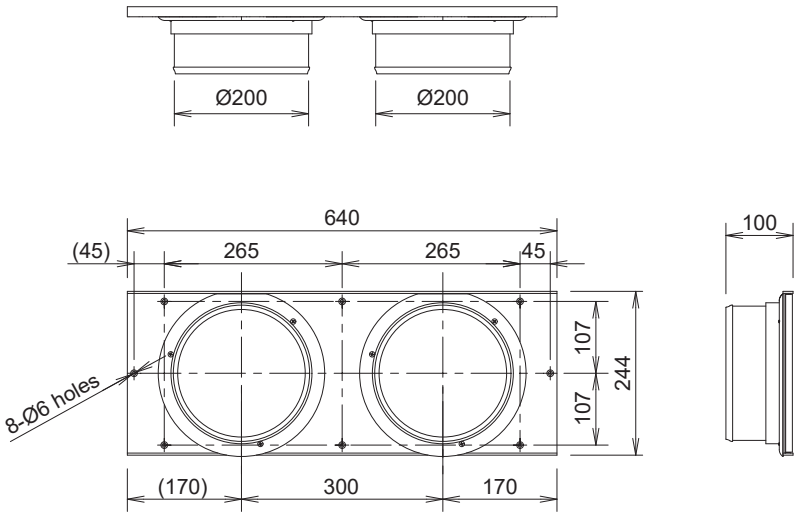


2. Attach the duct frange to the side of the unit with the supplied screws.



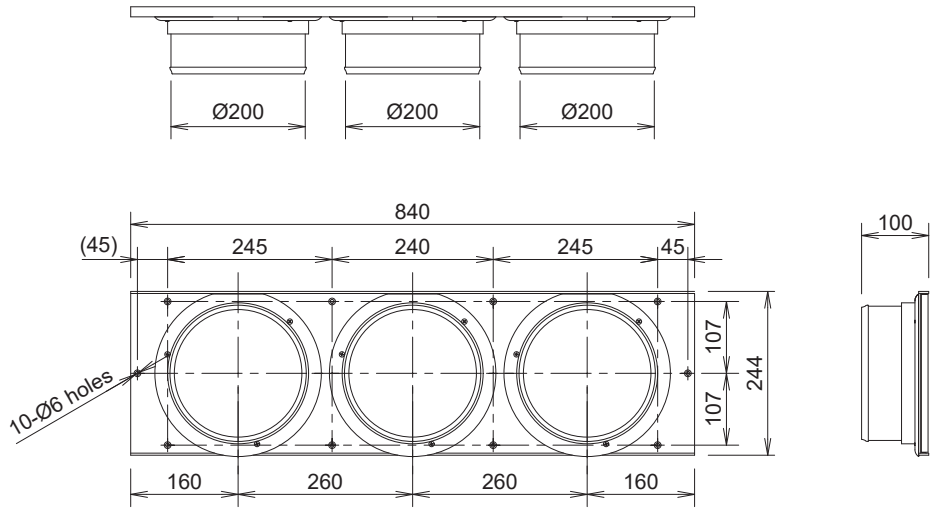
Dimensional Diagram : CZ-56DAF2

unit: mm



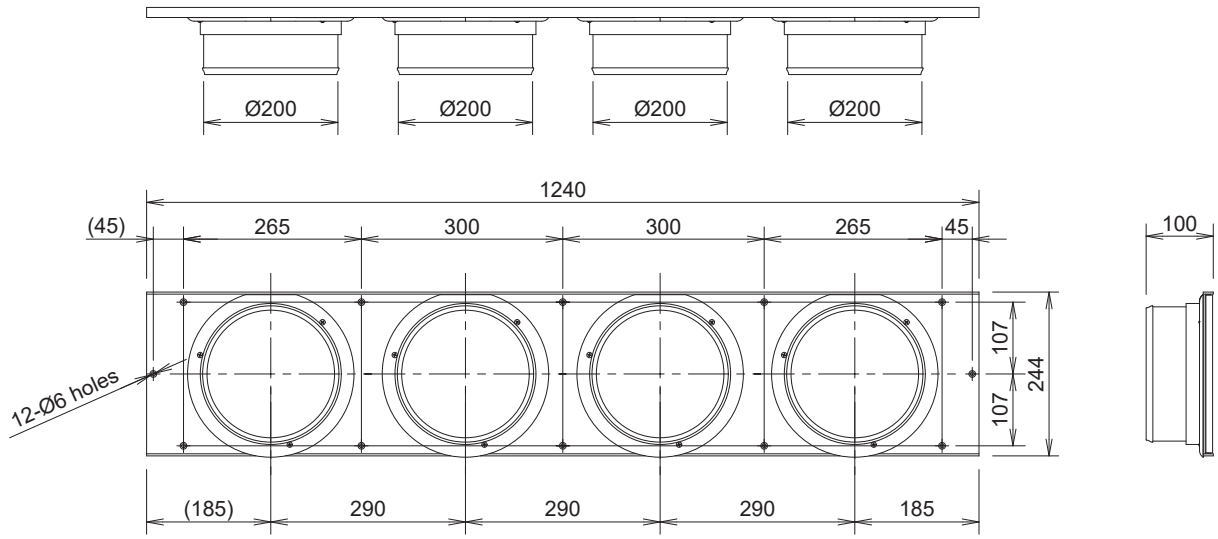
Dimensional Diagram : CZ-90DAF2

unit: mm



Dimensional Diagram : CZ-160DAF2

unit: mm



■ HOW TO PROCESS TUBING

Must ensure mechanical connections be accessible for maintenance purposes.

● Connecting the Refrigerant Tubing

NOTE

When connecting flare at indoor side, make sure that the flare connection is used only once. If torqued up and released, the flare must be remade. Once the flare connection was torqued up correctly and leak test was made, thoroughly clean and dry the surface to remove oil, dirt and grease by following instructions of silicone sealant. Apply neutral cure & ammonia-free silicone sealant that is non-corrosive to copper & brass to the external of the flared connection to prevent the ingress of moisture on both the gas & liquid sides. (Moisture may cause freezing and premature failure of the connection.)

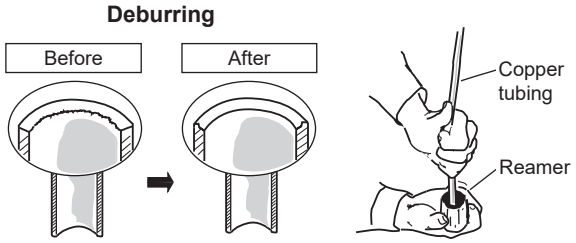
Use of the Flaring Method

Many of conventional split system air conditioners employ the flaring method to connect refrigerant tubes that run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

Flaring Procedure with a Flare Tool

(1) Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 30 – 50 cm longer than the tubing length you estimate.

(2) Remove burrs at each end of the copper tubing with a tube reamer or a similar tool. This process is important and should be done carefully to make a good flare. Be sure to keep any contaminants (moisture, dirt, metal filings, etc.) from entering the tubing.

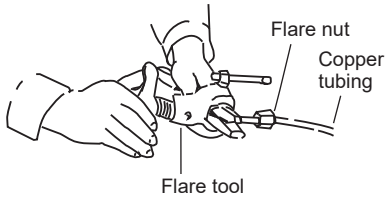


NOTE

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube.

(3) Remove the flare nut from the unit and be sure to mount it on the copper tube.

(4) Make a flare at the end of the copper tube with a flare tool.



NOTE

When flared joints are reused, the flare part shall be re-fabricated.

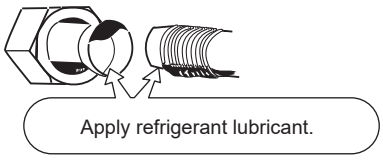
A good flare should have the following characteristics:

- inside surface is glossy and smooth
- edge is smooth
- tapered sides are of uniform length

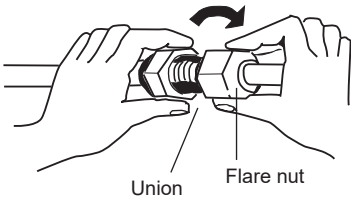
Caution Before Connecting Tubes Tightly

(1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.

(2) Be sure to apply refrigerant lubricant (ether oil) to the inside of the flare nut before making piping connections. This is effective for reducing gas leaks.



(3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match.



- Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.

● Connecting Tubing Between Indoor and Outdoor Units

(1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing.

Indoor Unit Tubing Connection Unit : mm

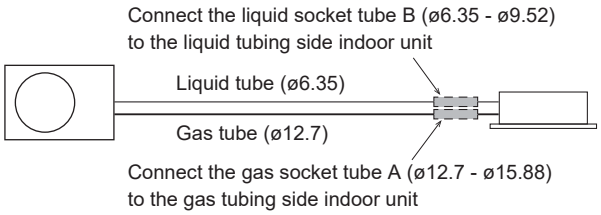
Indoor unit type	S-3650PF3E	S-6071PF3E	S-1014PF3E
Gas tube	ø12.7	ø15.88 (ø12.7)	ø15.88
Liquid tube	ø6.35	ø9.52 (ø6.35)	ø9.52

Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-6071PF3E.
The size of parenthesis indicates the connection tube diameter when using the different-diameter-tube joint.

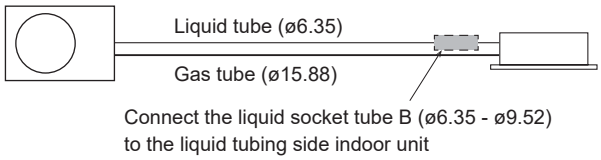
How to use different-diameter-tube joint (supplied)

1) When using with single connection

• Outdoor PZ3 series (Type 60) • PZH3 series (Type 60)



• Outdoor PZ3 series (Type 71)



The following examples show the multiple connections.

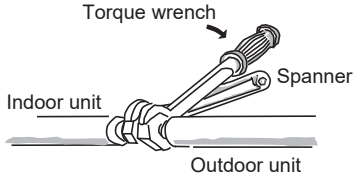
- Connectable or disconnectable units vary depending on a series of outdoor units.
  See “7. TWIN TYPE CONNECTIONS” on page 1-11-2-2-24 and “7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS” on page 1-11-2-4-23 as well.
- Two, three or four indoor units can be operated simultaneously with a single remote controller.
  Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin, triple and double twin system.
  No address setting is necessary.

Applicable “TWIN” “TRIPLE” and “DOUBLE TWIN” combination table

	Outdoor unit	Type 71 (Only PZH series)	Type 100	Type 125	Type 140
TWIN	combination	U-71 / S-3650 S-3650	U-100 / S-3650 S-3650	U-125 / S-6071 S-6071	U-140 / S-6071 S-6071
TRIPLE	combination	———	U-100 / S-3650 S-3650 S-3650	U-125 / S-3650 S-3650 S-3650	U-140 / S-3650 S-3650 S-3650
DOUBLE TWIN	combination	———	———	U-125 / S-3650 S-3650 S-3650 S-3650	———

(2) To fasten the flare nuts, apply specified torque.

- When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use two spanners. When tightening the flare nuts, use a torque wrench.
  If the flare nuts are over-tightened, the flare may be damaged, which could result in refrigerant leakage and cause injury or asphyxiation to room occupants.



- For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R410A, R32 (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table below.

Tube diameter	Tightening torque (approximate)	Tube thickness
ø6.35 (1/4")	14 – 18 N · m {140 – 180 kgf · cm}	0.8 mm
ø9.52 (3/8")	34 – 42 N · m {340 – 420 kgf · cm}	0.8 mm
ø12.7 (1/2")	49 – 55 N · m {490 – 550 kgf · cm}	0.8 mm
ø15.88 (5/8")	68 – 82 N · m {680 – 820 kgf · cm}	1.0 mm

Because the pressure is approximately 1.6 times higher than conventional refrigerant R22 pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.

- In order to prevent damage to the flare caused by over-tightening of the flare nuts, use the table above as a guide when tightening.
- When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 200 mm.

● Insulating the Refrigerant Tubing

Tubing Insulation

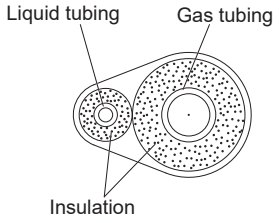
Must ensure that pipe-work shall be protected from physical damage.

- Thermal insulation must be applied to all units tubing, including distribution joint (field supply).
  * For gas tubing, the insulation material must be heat resistant to 120°C or above. For other tubing, it must be heat resistant to 80°C or above.

  Insulation material thickness must be 10 mm or greater.

  If the conditions inside the ceiling exceed DB 30°C and RH 70%, increase the thickness of the gas tubing insulation material by 1 step.

Two tubes arranged together



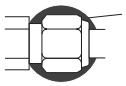
CAUTION

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

Additional Precautions For R32 Models.

Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.

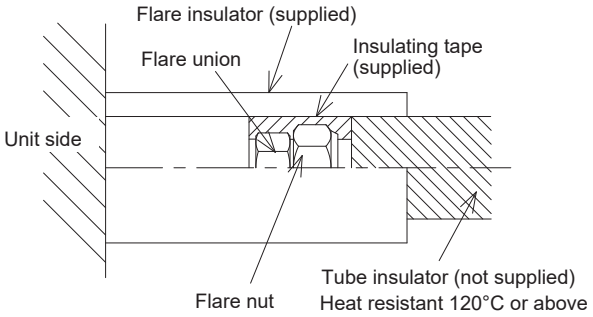


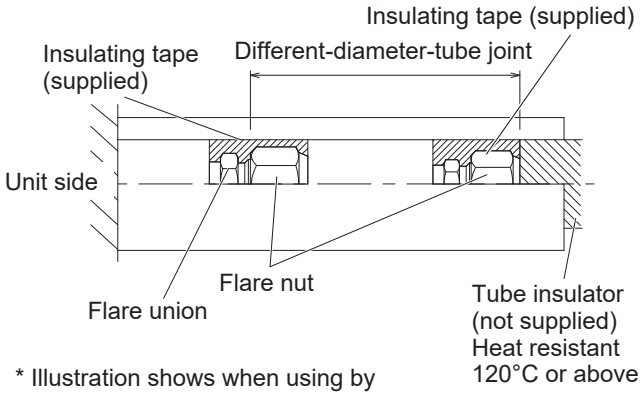
Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

Taping the flare nuts

Wind the insulating tape around the flare nuts at the gas/liquid tube connections. Then cover up the tubing connections with the flare insulator.





* Illustration shows when using by S-6071PF3E. (Only 60PZH3, PZ3 single series)

Insulation material

The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.

NOTE

If noise bothers you from the area between indoor and outdoor units' connection pipes, it is effective to wind the soundproofing materials (field supply) to reduce noise.

CAUTION

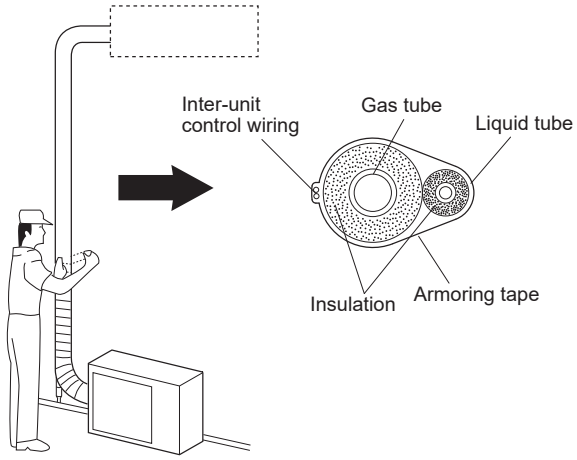
After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack.
Never grasp the drain or refrigerant connecting outlets when moving the unit.

● **Taping the Tubes**

(1) At this time, the refrigerant tubes (and electrical wiring if local codes permit) should be taped together with armoring tape in 1 bundle.
To prevent condensation from overflowing the drain pan, keep the drain hose separate from the refrigerant tubing.

(2) Wrap the armoring tape from the bottom of the outdoor unit to the top of the tubing where it enters the wall. As you wrap the tubing, overlap half of each previous tape turn.

(3) Clamp the tubing bundle to the wall, using 1 clamp approx. each meter.

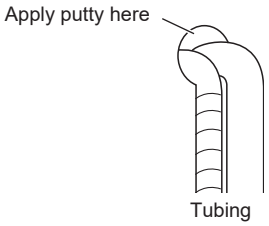


NOTE

Do not wind the armoring tape too tightly since this will decrease the heat insulation effect. Also ensure that the condensation drain hose splits away from the bundle and drips clear of the unit and the tubing.

● **Finishing the Installation**

After finishing insulating and taping over the tubing, use sealing putty to seal off the hole in the wall to prevent rain and draft from entering.



■ **HOW TO INSTALL THE TIMER REMOTE CONTROLLER OR HIGH-SPEC WIRED REMOTE CONTROLLER (OPTIONAL PART)**

NOTE

See Section “2. TEST RUN”.

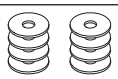
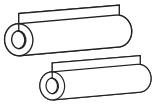
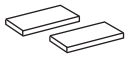
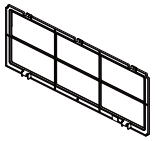
■ GENERAL

This booklet briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning. The installation of pipe-work shall be kept to a minimum.

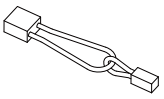
WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
CAUTION	This symbol shows type of flammable refrigerant contained in the system.
CAUTION	This symbol shows that the Operating Instructions should be read carefully.
CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the Technical Manual.
CAUTION	This symbol shows that there is information included in the Operating Instructions and/or Installation Instructions.

● Accessories Supplied with Unit

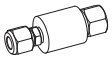
(Middle Static Pressure Duct)

Part Name	Figure	Q'ty	Remarks
Washer		8	For suspending indoor unit from ceiling
Flare insulator		2	For gas and liquid tubes
Insulating tape		2	For gas and liquid tubes flare nuts
Drain insulator		1	For drain hose joint
Hose band		1	For securing drain hose
Packing		2	For drain hose joint (hard material)
Clamper		2	For drain hose joint
Drain hose		1	For main unit + PVC pipe joints
Clamper		2	For electrical wiring
Filter		*	When not connecting the air intake, be sure to install the filter.
Screw		*	

* S-3650PF3E : 1 Q'ty
S-6071PF3E : 2 Q'ty
S-1014PF3E : 2 Q'ty

Part Name	Figure	Q'ty	Remarks
Operating Instructions		1	
Installation Instructions		1	
Short-circuit connection		1	For vertical installation (Located on the back of the electrical component box lid.)

As for S-6071PF3E, the following accessories are additionally provided.

Part Name	Figure	Q'ty	Remarks
Different-diameter-tube joint		1	Gas socket tube A : ø15.88 → ø12.7
		1	Liquid socket tube B : ø9.52 → ø6.35
Insulating tape		2	For gas and liquid tube flare nuts

- Use M10 for suspension bolts.
- Field supply for suspension bolts and nuts.

● Type of Copper Tube and Insulation Material

If you wish to purchase these materials separately from a local source, you will need:

1. Deoxidized annealed copper tube for refrigerant tubing.
2. Foamed polyethylene insulation for copper tubes as required to precise length of tubing. Wall thickness of the insulation should be not less than 8 mm.
3. Use insulated copper wire for field wiring. Wire size varies with the total length of wiring. See "1-10. Electrical Wiring" for details.

CAUTION

Check local electrical codes and regulations before obtaining wire. Also, check any specified instructions or limitations.

● Additional Materials Required for Installation

1. Refrigeration (armored) tape
2. Insulated staples or clamps for connecting wire (See your local codes.)
3. Putty
4. Refrigeration tubing lubricant
5. Clamps or saddles to secure refrigerant tubing
6. Scale for weighing

■ CHECKLIST AFTER INSTALLATION WORK

Work List	No.	Content	Check ☑	Possibility of Failure & Checkpoint
Installation	1	Are the indoor units installed following the content of the section "■ SELECTING THE INSTALLATION SITE"? (on page 1-11-1-2-1)	☐	There is a possibility of light injure or loss of property.
Tubing & Wiring	2	In the case of multiple installation: Is there a wrong tubing connection with another system?	☐	The unit is inoperated or the refrigerant flows into the inoperative unit and the leakage is expected. Check if there is a wrong tubing or wiring connection with another system.
	3	In the case of multiple installation: Is there a wrong wiring connection with another system?	☐	
	4	Is the earth leakage circuit breaker (all-pole switching function provided) installed?	☐	Power failure or short circuit may cause electric shock or fire. Check installation work and ground wire work.
	5	Is there any wrong installation of optional parts or wrong wiring?	☐	
	6	Was the ground wire work performed?	☐	
	7	Are there any wrong power supply wiring, wrong connection wire, wrong signal wire or loose screw?	☐	
	8	Is the thickness of wire in accordance with rule?	☐	
	9	Is the power-supply voltage equal to the nameplate of the unit?	☐	
	10	Was the check of the airtight test, flared tube fitting and gas leakage on the welded portion performed?	☐	If the gas leakage occurs, the unit quality not only becomes inferior but affects environment. Repair it as quickly as possible.
Drain Check	11	Has the adhesive been applied to the drain connecting portion (resin portion) of the indoor unit?	☐	The resin portion cracks after a few months and it may cause water drain.
	12	Is there water leakage?	☐	Since there is a possibility of water drain, repair the drain pipe if the drain failure or water drain occurs.
	13	Indoor unit drain pipe has a downward gradient (1/100 or more) by rule. Is the drain water flowing smoothly?	☐	
Heat Insulation	14	Was the heat insulation work at a suitable location including the flared tube fitting (refrigerant tube & drain pipe) performed properly?	☐	The quality of unit not only becomes inferior but there is a possibility of the water drain. So, perform the heat insulation work properly.
Test Run	15	Did the abnormal sound occur?	☐	Check if there is a fan contact or distortion of the indoor unit.
	16	Did the cool and warm airflow discharge from the indoor unit?	☐	Check if the unit does not operate or there is a wrong tubing or wiring connection with another system.

■APPENDIX

●Care and Cleaning

WARNING

- **For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.**
- **Do not pour water on the indoor unit to clean it. This will damage the internal components (fan motor, etc.) and cause an electric shock hazard.**

Air intake and outlet side (Indoor unit)

Clean the air intake and outlet side of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.
If these parts are stained, use a clean cloth moistened with water. When cleaning the air outlet side, be careful not to force the vanes out of place.

CAUTION

- **Never use solvents or harsh chemicals when cleaning the indoor unit. Do not wipe plastic parts using very hot water.**
- **Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.**
- **The internal coil and other components of outdoor unit must be cleaned regularly. Consult your dealer or service center.**

Air filter

The air filter collects dust and other particles from the air and should be cleaned at regular intervals. If the air conditioner does not cool or warm, the air filter might be clogged. If the filter gets blocked, the efficiency of the air conditioner drops greatly. When cleaning the air filter, consult your dealer or service center.

NOTE

The frequency with which the filter should be cleaned depends on the environment in which the unit is used.
Clean the filter frequently for best performance in the area of dusty or oil spots regardless of filter status.
When maintaining the filter, it may necessary to use a stubby screwdriver.

<How to clean the filter>

Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, and dry it.

<How to remove the filter>

Remove the filter in reverse order under Section “Install the Filter” on page 1-11-1-2-5.
In case of Installing the Duct (field supply)

- **In case of Installing the Duct (field supply)**

Type	F3
Period	(Depends on filter’s specifications)

When cleaning the air filter, consult your dealer or service center.

CAUTION

- **Certain metal edges and the condenser fins are sharp and may cause injury if handled improperly; special care should be taken when you clean these parts.**
- **Periodically check the outdoor unit to see if the air outlet or air intake is clogged with dirt or soot.**
- **The internal coil and other components must also be cleaned periodically. Consult your dealer or service center.**

Care: After a prolonged idle period

Check the indoor and outdoor unit air intakes and outlets for blockage; if there is a blockage, remove it.

Care: Before a prolonged idle period

- Operate the fan for half a day to dry out the inside.
- Disconnect the power supply and also turn off the circuit breaker.
- Clean the air filter and replace it in its original position.
- Outdoor unit internal components must be checked and cleaned periodically. Contact your local dealer for this service.

● Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service. If it still does not work properly, contact your dealer or a service center.

Indoor unit

Symptom		Cause
Noise	Sound like streaming water during operation or after operation	• Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
	Cracking noise during operation or when operation stops.	Cracking sound due to temperature changes of parts
Odor	Discharged air is smelled during operation.	Indoor odor components, cigarette odor and cosmetic odor accumulated in the air conditioner and its air is discharged. Unit inside is dusty. Consult your dealer.
Dewdrop	Dewdrop gets accumulated near air discharge during operation	Indoor moisture is cooled by cool wind and accumulated by dewdrop.
Fog	Fog occurs during operation in cooling mode. (Places where large amounts of oil mist exist at restaurants.)	• Cleaning is necessary because unit inside (heat exchanger) is dirty. Consult your dealer as technical engineering is required. • During defrost operation
Fan is rotating for a while even though operation stops.		• Fan rotating makes operation smoothly. • Fan may sometimes rotate because of drying heat exchanger due to settings. • Fan may sometimes rotate in internal cleaning operation mode for a while.
Dust		Dust accumulation inside indoor unit is discharged.
Poor cooling or heating performance		The indoor unit is initially designed to control the indoor temperature detected by the built-in room sensor inside the indoor unit. Due to indoor unit installation position, however, the built-in sensor may occasionally sense temperature improperly; for example, temperature difference between the ceiling and floor, lighting apparatus, electric fan, windows or waist-high partition walls, etc. In this case, the unit does not operate properly at the desired temperature. You may change the use of the temperature sensor inside the indoor unit to that of the remote controller. Then the desired room temperature can be controlled properly. For details, consult your dealer.

Check Before Requiring Services

Symptom	Cause	Remedy
Air conditioner does not run at all although power is turned on.	Power failure or after power failure	Press ON/OFF operation button on remote controller again.
	Operation button is turned off.	• Switch on power if breaker is turned off. • If breaker has been tripped, consult your dealer without turning it on.
	Fuse blow out.	If blown out, consult your dealer.
Poor cooling or heating performance	Air intake or air discharge port of indoor and outdoor units is clogged with dust or obstacles.	Remove dust or obstruction.
	Fan speed switch is set to “Low”.*	Change to “Medium” or “High”.*
	Improper temperature settings	See “● Tips for Energy Saving”. (on page 1-11-1-2-42)
	Room is exposed to direct sunlight in cooling mode.	
	Doors and /or windows are open.	
	Air filter is clogged.	See “● Care and Cleaning”. (on page 1-11-1-2-40)
	Too much heat sources in room in cooling mode.	Use minimum heat sources and in a short time.
	Too many people in room in cooling mode.	Reduce temperature settings or change to “Medium” or “High”.*

*Fan speed display on the remote controller

High :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Medium :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Low :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

If your air conditioner still does not work properly although you checked the points as described above, first stop the operation and turn off the power switch. Then contact your dealer and report the serial number and symptom. Never repair your air conditioner by yourself since it is very dangerous for you to do so.

● Tips for Energy Saving

Avoid

- **Do not block the air intake and outlet of the unit. If either is obstructed, the unit will not work well, and may be damaged.**
- Do not let direct sunlight into the room. Use sunshades, blinds or curtains. If the walls and ceiling of the room are warmed by the sun, it will take longer to cool the room.

Do

- Always try to keep the air filter clean. (See "● Care and Cleaning" on page 1-11-1-2-40.) A clogged filter will impair the performance of the unit.
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

NOTE

Should the power fail while the unit is running

If the power supply for this unit is temporarily cut off, the unit will automatically resume operation once power is restored using the same settings before the power was interrupted.

■ IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

NOTE

See "1-11-2. Installation Instructions of Outdoor Unit".

■ SERVICING

CAUTION

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, (2) to (6) shall be completed prior to conducting work on the system.

(1) Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

(2) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(3) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(4) If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

(5) No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

(6) Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

(7) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.
   - The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
   - The ventilation machinery and outlets are operating adequately and are not obstructed.
   - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
   - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

(8) Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
Initial safety checks shall include:
- That capacitors are discharged. This shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE:
The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

■ REMOVAL AND EVACUATION

CAUTION

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.
The following procedure shall be adhered to:
  - Remove refrigerant.
  - Purge the circuit with inert gas.
  - Evacuate.
  - Purge again with inert gas.
  - Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be "flushed" with Oxygen Free Nitrogen (OFN) to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

■ CHARGING PROCEDURES

NOTE

See "1-11-2. Installation Instructions of Outdoor Unit".

■ DECOMMISSIONING

CAUTION

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
    • Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
    • All personal protective equipment is available and being used correctly.
    • The recovery process is supervised at all times by a competent person.
    • Recovery equipment and cylinders conform to the appropriate standards.
  d) Pump down refrigerant system, if possible.
  e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
  f) Make sure that cylinder is situated on the scales before recovery takes place.
  g) Start the recovery machine and operate in accordance with manufacturer's instructions.
  h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
  i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
  j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
  k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging / discharging.

■ RECOVERY

NOTE

See "11. Recovery" on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6 and 1-11-2-4-6.

1-11-1-3. Wall Mounted Type

■ SELECTING THE INSTALLATION SITE

AVOID:

- areas where leakage of gas may be expected.
- locations where sulfurous acid gas or corrosive gas occurs.
- places where large amounts of oil mist exist such a kitchen of a Chinese restaurant or near a machinery equipment of the factory. The oil can be adhered to the surface of the heat exchanger or resin parts and this will cause a decrease in performance, spray or drip water and deformation or damages.
- direct sunlight.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause “condensation” on the air discharge ports, causing them to spray or drip water.
- locations where the remote controller will be splashed with water or affected by dampness or humidity.
- installing the remote controller behind curtains or furniture.
- locations where high-frequency emissions are generated.
- turning ON the power or operate the unit until work of refrigerant tubing and electrical wiring have been completed. Highly dangerous electrical voltages are used in this system.

DO:

- Install the unit to allow cool air (and warm air) to flow smoothly. Never place objects near the air inlet or the air outlet of the unit. This will reduce the efficiency of the unit.
- select an installation location which is rigid and strong enough to support or hold the unit.
- select a location which can support a load that is four times the indoor unit weight.
- select a location for drainage work properly.
  If it is improperly, this will cause damage to property.
  - Select a location where tubing and drain pipe have the shortest run to the outdoor unit.
  - Insulate the drain pipe running inside the building.
  - Pay attention to the drainage planning not to cause neighbors trouble.
- allow room for operation and maintenance as well as unrestricted air flow around the unit.
- keep the fire alarm and the air outlet at least 1.5 m away from the unit.
- the height of the installed location shall be at least 1.8 m above the floor.
- when installing the unit in the hotel rooms or executive offices with a low-level noise, it is recommended that the external electronic expansion valve kit (optional) be installed.
- the limitation of the tubing length between the indoor and the outdoor units should be checked “1-11-2. Installation Instructions of Outdoor Unit”.
- allow room for mounting the remote controller about 1 m off the floor, in an area that is not in direct sunlight or in the flow of cool air from the indoor unit.

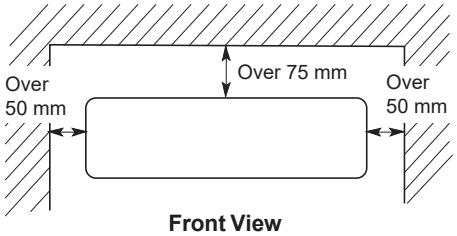
NOTE

Air delivery will be degraded if the distance from the floor to the ceiling is greater than 3 m.

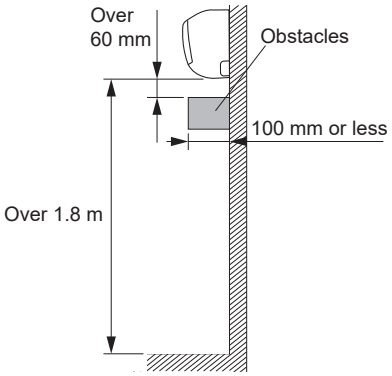
Wall Mounted

The air inlet and outlet of the indoor unit must be free of any obstructions to allow air to spread throughout the room.

1. The indoor unit must be within a maintenance space.



Front View



Side View

1

■ HOW TO INSTALL THE INDOOR UNIT

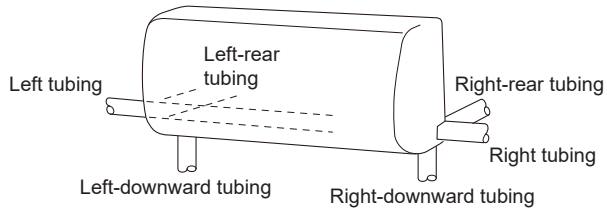
● Starting the Installation

(1) Remove the rear panel.

NOTE

Tubing can be extended in 6 directions as shown below.
Select the direction you need providing the shortest run to the outside unit.

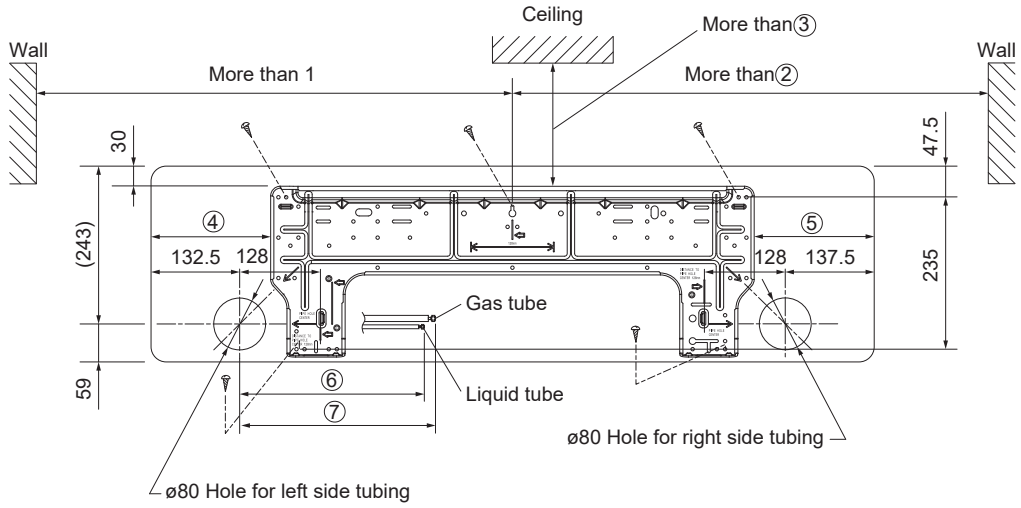
Tubing direction



● How to Make a Hole

The mounting wall should be strong and solid enough to withstand the unit's vibration.

(1) Place the installation plate from the indoor unit on the wall at the location selected.



* Mount the installation plate with 5 screws completely.

unit: mm

Dimension						
①	②	③	④	⑤	⑥	⑦
607.5	612	105	183.5	188.5	400	450

Make sure the installation plate is horizontal, using a carpenter's level or tape measure to measure down from the ceiling.
Wait until after cutting the hole before attaching the installation plate to the wall.

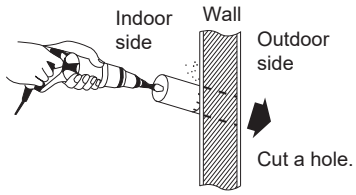
* The center of installation plate should be at more than① at right of the wall.
* The center of installation plate should be at more than② at left of the wall.
* The distance from installation plate edge to ceiling should be more than③.
* From installation plate left side to unit's left side is④.
* From installation plate right side to unit's right side is 5 .
* For left side tubing, tubing connection for liquid should be about⑥ from this line.
* For left side tubing, tubing connection for gas should be about⑦ from this line.

(2) Before making the hole, check carefully that no studs or pipes are directly run behind the spot to be cut.

CAUTION **Avoid areas where electrical wiring is located.**

The above precautions are also applicable if tubing goes through the wall in any other location.

(3) Using a sabre saw, keyhole saw or hole-cutting drill attachment, cut a hole of ø80 mm in the wall. Hole should be made at a slight downward slant to the outdoor side.

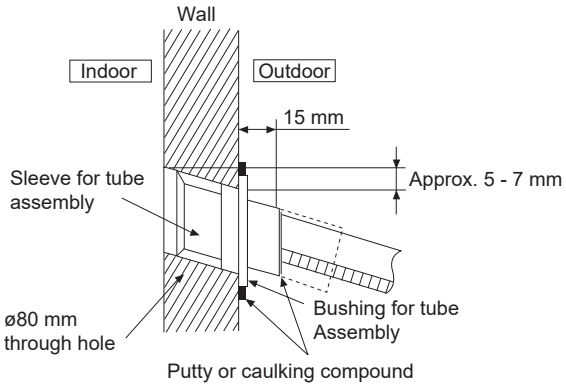


Hole Dia. (mm)
80

(4) Place a plastic cover over the end of the pipe (for indoor side only) and insert the pipe in the wall.
This will protect the tube from contacting the metal lath or wire lath, leakage due to condensation or entering small animals through the hole.

CAUTION

When the wall is hollow, please be sure to use the Piping sleeve assembly to prevent dangers caused by mice biting the connection cable.

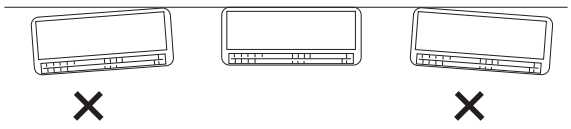


● Install the Installation Plate on the Wall

If Wooden Wall

(1) Attach the installation plate to the wall with the 5 screws (4 × 20) provided.

(2) Double check with a carpenter's level or tape measure that the panel is level. This is important to install the unit properly.



(3) Make sure the panel is flush against the wall. Any space between the wall and unit will cause noise and vibration.

If Concrete Wall

(1) When attaching the installation plate to the concrete wall, use the screws (field supply) for concrete or an optional anchor plug and fix to the hole of ø5 mm of the installation plate as shown in the figure under the section "● How to Make a Hole" on page 1-11-1-3-2.
When fixing with bolt, attach to the hole of ø8 mm.

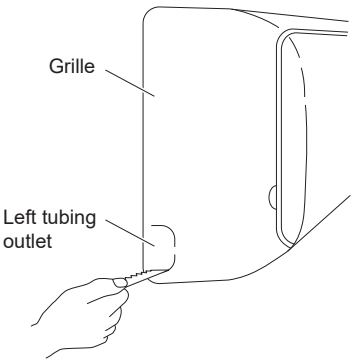
(2) Double check with a carpenter's level or tape measure that the plate is level. This is important to install the unit properly.

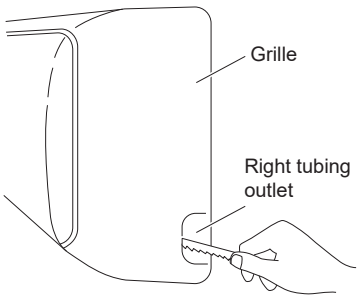
(3) Make sure the installation plate is flush against the wall. Any space between the wall and unit will cause noise and vibration.

● Indoor Side Tubing

Arrangement of tubing by direction

1) Left side, left bottom or right side, right bottom tubing
Cut out the corner of the right/left frame with a hacksaw or the like.

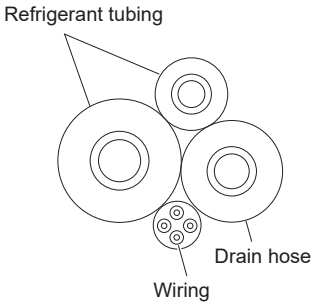




2) Right-rear or left-rear tubing
In this case, the corner of the frame need not be cut.

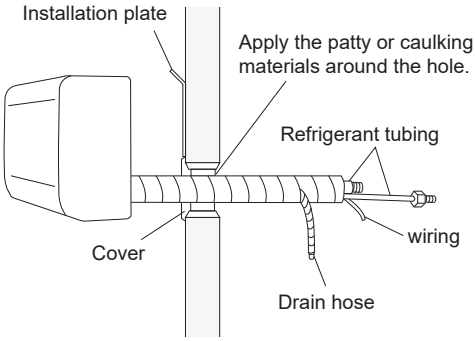
Right-rear side, right side, right-bottom side tubing

Be sure to insulate the drain hose and refrigerant tubing to run through the rooms.

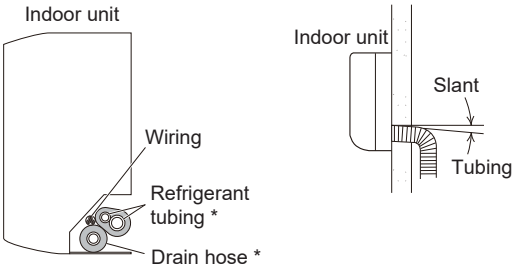


Mounting the indoor unit

1) Assemble the refrigerant tubing, drain hose and wiring together with the armoring tape.
   Do not wind the tape forcibly more than necessary.
   The drain hose should be positioned below the tubing not to apply too much tension. (Cross-section view)
2) Push the wiring, refrigerant tubing and drain hose through the hole in the wall. Mount the indoor unit to be seated so it is caught on the tabs of the installation plate.



Cross-section view



* Drain hose should be positioned below the refrigerant tubing.

Left-rear side, left side, left-bottom side tubing

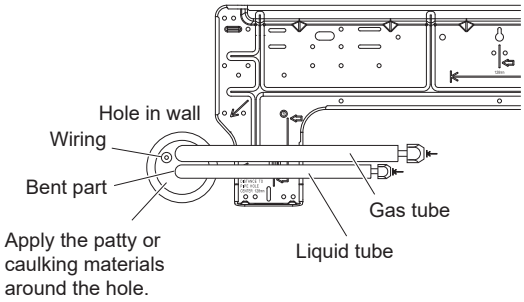
(1) Pulling tubes into indoors

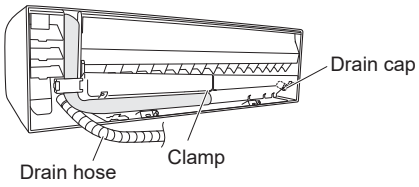
Adjust the tubing length so as to be placed at the same position of the liquid tube and gas tube.

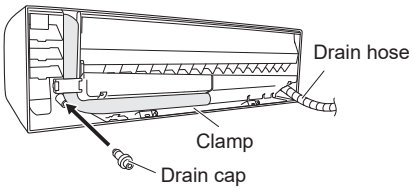
(2) Switching drain hose and drain cap

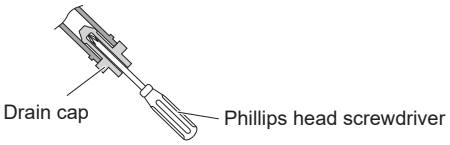
- Switch the drain hose and drain cap.
  When removing the drain cap, pinch it with the pliers and pull out the drain cap. When inserting the drain cap, use a Phillips head screwdriver to push the drain cap in firmly.

- Pull out the drain hose to remove it. When attaching it, slide the drain hose fully onto the drain pan outlet. (It will be easy to slide when water is added.) After attaching the drain hose, check that it is attached securely.







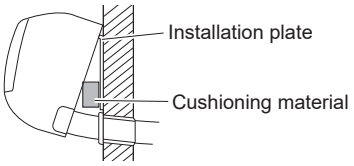


(3) Mounting the indoor unit

1) Mount the indoor unit onto the tabs on the upper part of the installation plate.
2) Connect the refrigerant tubing, drain hose and wires led inside from outdoors. (When leading an optional drain hose into the room for expansion, the drain hose inside the room should be insulated. In the case of the right-rear side, right side or right-bottom tubing, see the section “Right-rear side, right side, right-bottom side tubing” on This page.)
3) After completing a leak test, bundle the tubing and wiring together with the armoring tape. Do not wind the tape forcibly more than necessary. Store the tubing and wiring inside the tubing storage area at the back of the indoor unit. Be sure the drain hose is placed underneath the tubing.

Left-rear side, left side, left-bottom side tubing

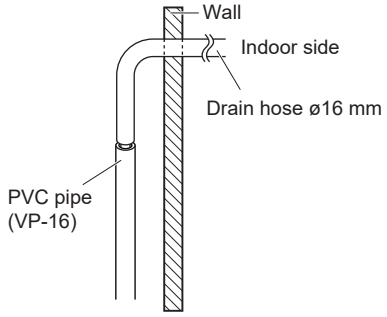
Piping can easily be made by lifting the indoor unit with a cushioning material between the indoor unit and the wall.



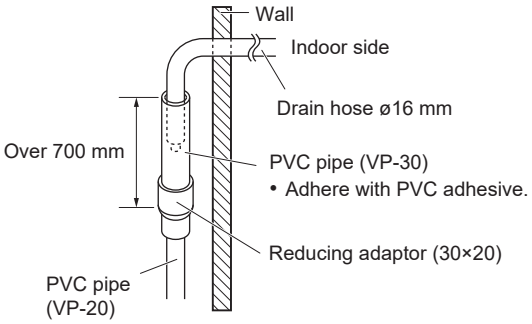
(4) Connect the drain hose.
Do not enforce the base of the drain hose when making a connection.

- Insert securely the drain hose into the PVC pipe.
- When installing the drain hose extension, connect with an optional drain hose.
  After connection, bundle with armoring tape.
- Make sure not to make the drain hose trapped.
  Insulate the connected part of the drain hose with the tubing insulation and check whether or not the water drains.

In the case of using PVC pipe (VP-16)

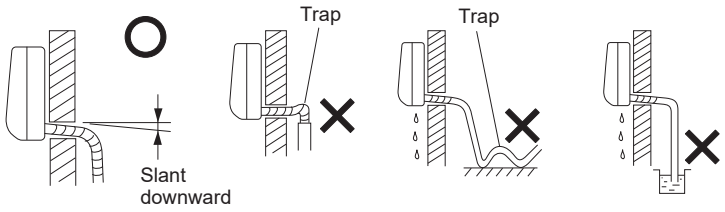


In the case of using PVC pipe (VP-30)



(5) When there is a long horizontal drain hose runs with very little slope to the run, water is likely to remain inside the hose. Slant the drain hose downward slightly to the outdoors and insulate it with the insulation.

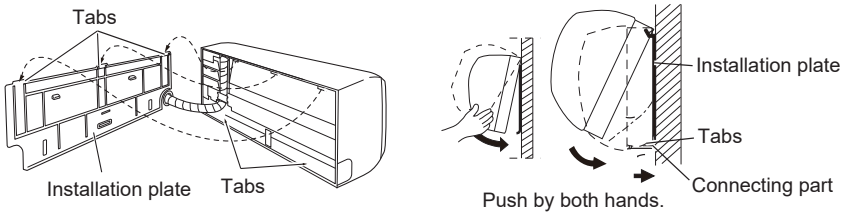
- Slant downward not to remain water inside the drain hose.
- Make sure tubing does not become trapped.
- Do not let the tip of the drain hose dip into the drain water.
- Do not leave the drain hose in the sewerage. This will cause the heat exchanger erosion damage caused by the corrosive gas such as hydrogen sulfide occurred inside the sewerage and lead to a gas leak.



● To mount and unmount indoor unit

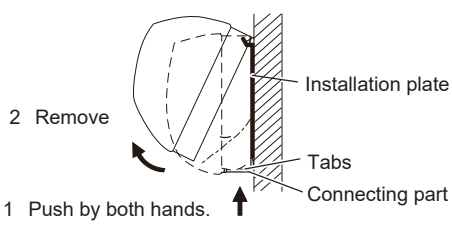
How to mount indoor unit

1. To install the indoor unit, mount the indoor unit onto the tabs on the upper part of the installation plate.
2. Hold down the air discharge outlet and press the lower part of the indoor unit until it clicks to securely fasten to the 2 tabs on the lower part of the installation plate.
3. Close the front panel and ensure that the panel is perfectly stable.



How to unmount indoor unit

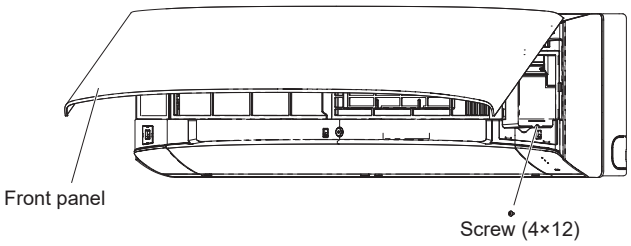
Press the 2 PUSH marks on the lower part of the indoor unit and unlatch the tabs. Then lift the indoor unit and unmount.



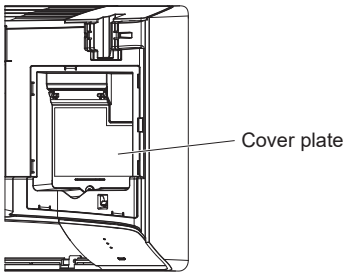
● Wiring Instructions

<Power supply, Inter-unit control wiring, Remote control wiring>

(1) Open the front panel and remove the screw (×1).

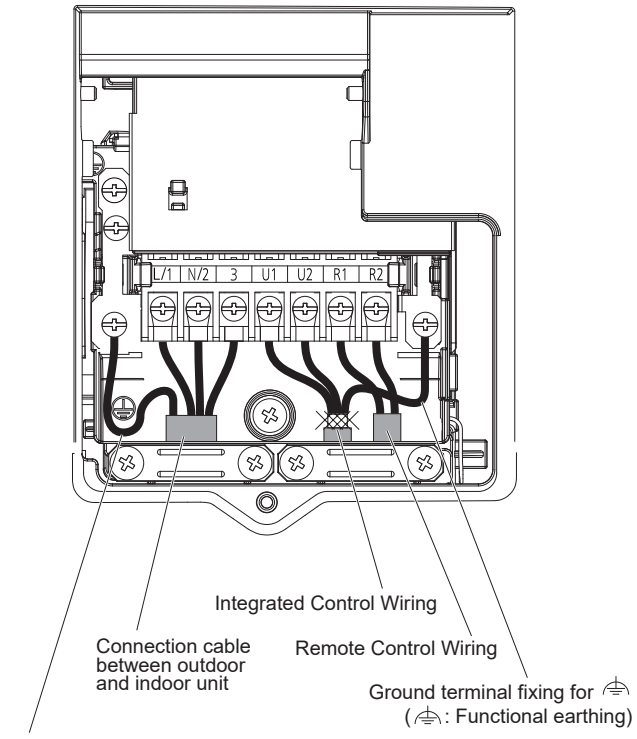


(2) Open the cover plate until it is in locked position.



(3) Make wiring.

Wiring sample

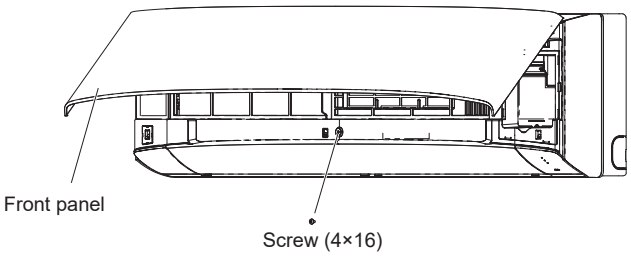


If the terminal screws on the terminal board are tightened too hard, the screws might be damaged. See the tightening torque values as shown below.

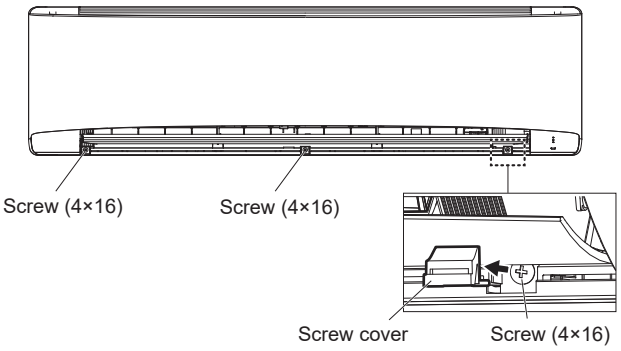
Tightening torques for terminal screws	1.0 – 1.4 N · m {10 – 14 kgf · cm}

<Optional parts setting and wiring>

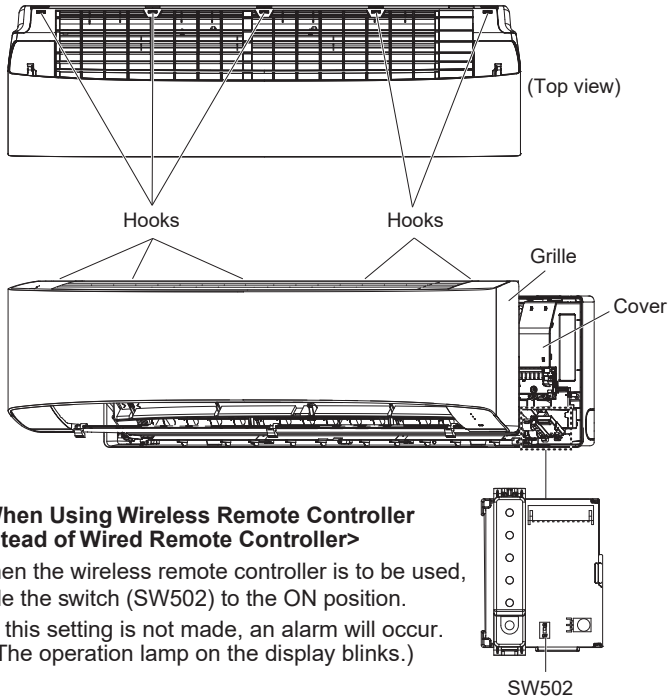
(1) Open the front panel and remove the screw (×1). Then close the panel.



(2) Open the flap and disengage the screw covers (×3). Then remove the screws (×3).



(3) Disengage the hooks holding and lifting both ends of the grille. Remove the cover of electrical component box.



<When Using Wireless Remote Controller Instead of Wired Remote Controller>

When the wireless remote controller is to be used, slide the switch (SW502) to the ON position.

- If this setting is not made, an alarm will occur. (The operation lamp on the display blinks.)

Setting status

ON: Wireless: main, Wired: sub

OFF: Wired: main, Wireless: sub (at shipment)

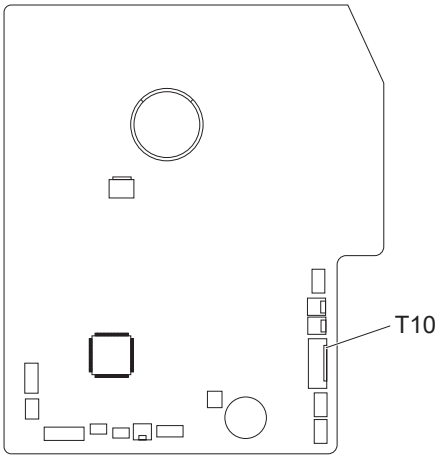
(4) Make wiring.

Refer to the instructions manual of optional parts as well.

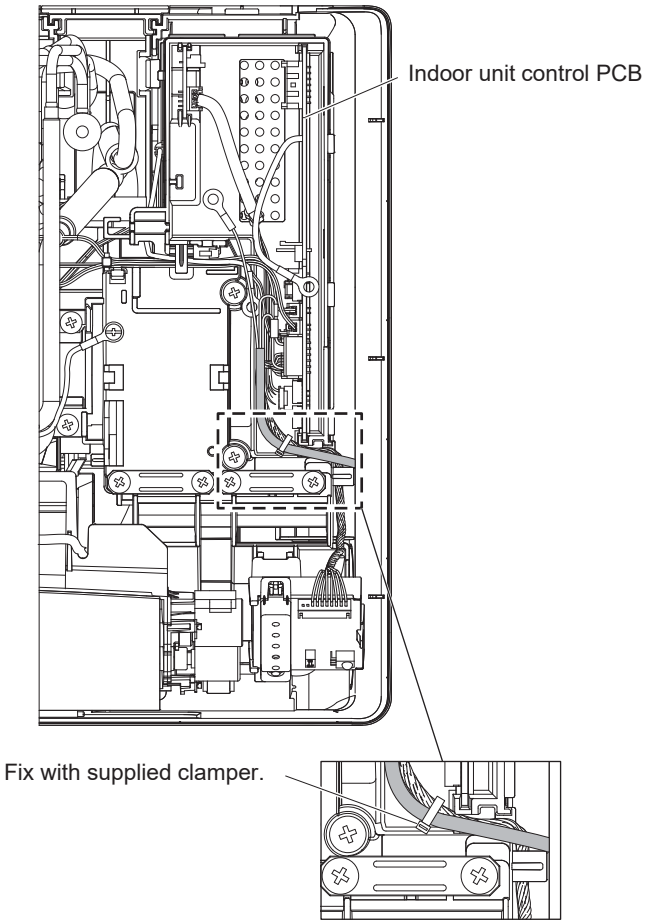
<When connecting to other optional parts>

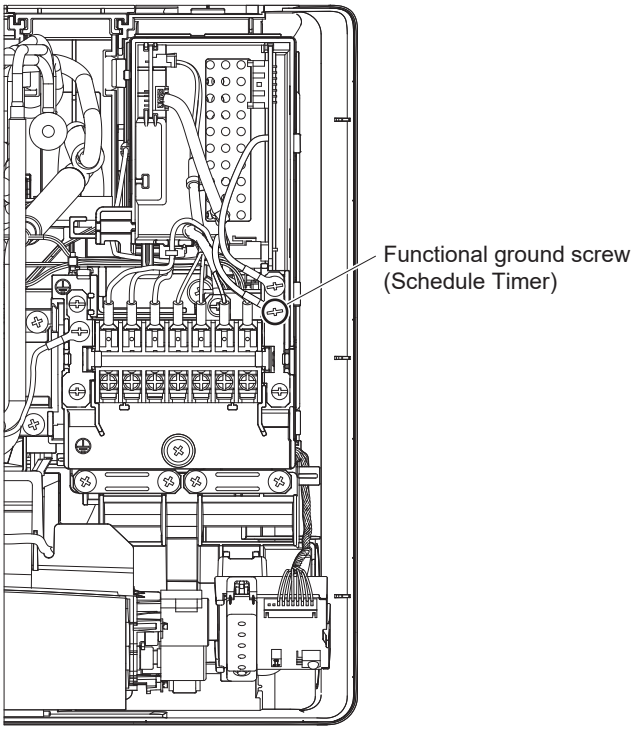
- Connecting to schedule timer
  Connect the wire from the schedule timer to the indoor control PCB T10 (CN061, Yellow) and functional ground screw.
- Connecting to T10 connector
  Connect the wire to the indoor control PCB T10 (CN061, Yellow).

Indoor control PCB



Wiring sample
(Schedule Timer)





(5) When finished wiring, attach the grille in the reverse order. Tighten the screws and install the screw covers.

■ HOW TO PROCESS TUBING

Must ensure mechanical connections be accessible for maintenance purposes.

● Connecting the Refrigerant Tubing

NOTE

When connecting flare at indoor side, make sure that the flare connection is used only once. If torqued up and released, the flare must be remade. Once the flare connection was torqued up correctly and leak test was made, thoroughly clean and dry the surface to remove oil, dirt and grease by following instructions of silicone sealant. Apply neutral cure & ammonia-free silicone sealant that is non-corrosive to copper & brass to the external of the flared connection to prevent the ingress of moisture on both the gas & liquid sides. (Moisture may cause freezing and premature failure of the connection.)

Use of the Flaring Method

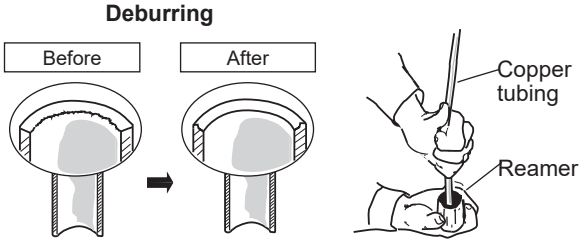
Many of conventional split system air conditioners employ the flaring method to connect refrigerant tubes that run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

Flaring Procedure with a Flare Tool

(1) Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 30 – 50 cm longer than the tubing length you estimate.

(2) Remove burrs at each end of the copper tubing with a tube reamer or a similar tool. This process is important and should be done carefully to make a good flare. Be sure to keep any contaminants (moisture, dirt, metal filings, etc.) from entering the tubing.

Deburring

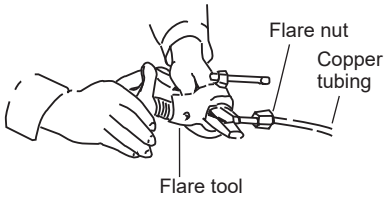


NOTE

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube.

(3) Remove the flare nut from the unit and be sure to mount it on the copper tube.

(4) Make a flare at the end of the copper tube with a flare tool.



NOTE

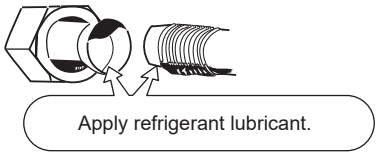
When flared joints are reused, the flare part shall be re-fabricated. A good flare should have the following characteristics:

- inside surface is glossy and smooth
- edge is smooth
- tapered sides are of uniform length

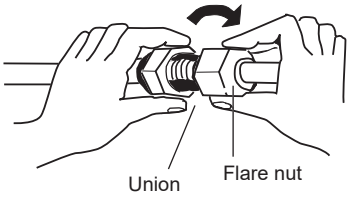
Caution Before Connecting Tubes Tightly

(1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.

(2) Be sure to apply refrigerant lubricant (ether oil) to the inside of the flare nut before making piping connections. This is effective for reducing gas leaks.



(3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match.



- Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.

● Connecting Tubing Between Indoor and Outdoor Units

(1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing.

Indoor Unit Tubing Connection Unit : mm

Indoor unit type	S-3650PK3E	S-6010PK3E
Gas tube	ø12.7	ø15.88(ø12.7)
Liquid tube	ø6.35	ø9.52(ø6.35)

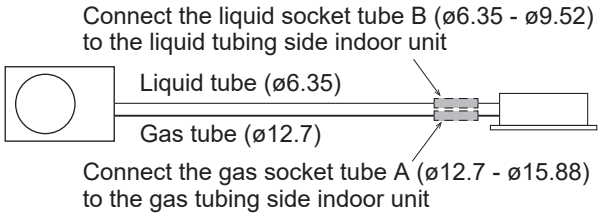
Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-6010PK3E.

The size of parenthesis indicates the connection tube diameter when using the different-diameter-tube joint.

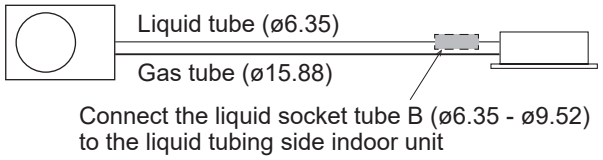
How to use different-diameter-tube joint (supplied)

1) When using with single connection

• Outdoor PZ3 series (Type 60)・PZH3 series (Type 60)



• Outdoor PZ3 series (Type 71)



The following examples show the multiple connections.

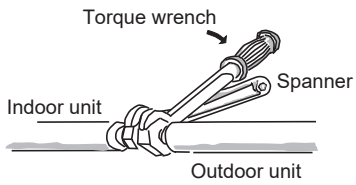
- Connectable or disconnectable units vary depending on a series of outdoor units.
  See “7. TWIN TYPE CONNECTIONS” on page 1-11-2-2-24 and “7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS” on page 1-11-2-4-23 as well.
- Two, three or four indoor units can be operated simultaneously with a single remote controller.
  Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin, triple and double twin system.
  No address setting is necessary.

Applicable “TWIN”, “TRIPLE” and “DOUBLE TWIN” combination table

	Outdoor unit	Type 71 (Only PZH series)	Type 100	Type 125	Type 140
TWIN	combination	U-71 / S-3650 S-3650	U-100 / S-3650 S-3650	U-125 / S-6010 S-6010	U-140 / S-6010 S-6010
TRIPLE	combination (Only PZH series)		U-100 / S-3650 S-3650 S-3650	U-125 / S-3650 S-3650 S-3650	U-140 / S-3650 S-3650 S-3650
DOUBLE TWIN	combination (Only PZH series)			U-125 / S-3650 S-3650 S-3650 S-3650	

(2) To fasten the flare nuts, apply specified torque.

- When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use two spanners. When tightening the flare nuts, use a torque wrench.
  If the flare nuts are over-tightened, the flare may be damaged, which could result in refrigerant leakage and cause injury or asphyxiation to room occupants.



- For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R32 (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table below.

Tube diameter	Tightening torque (approximate)	Tube thickness
ø6.35 (1/4")	14 – 18 N · m {140 – 180 kgf · cm}	0.8 mm
ø9.52 (3/8")	34 – 42 N · m {340 – 420 kgf · cm}	0.8 mm
ø12.7 (1/2")	49 – 55 N · m {490 – 550 kgf · cm}	0.8 mm
ø15.88 (5/8")	68 – 82 N · m {680 – 820 kgf · cm}	1.0 mm

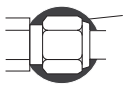
Because the pressure is approximately 1.6 times higher than conventional refrigerant R22 pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.

- In order to prevent damage to the flare caused by over-tightening of the flare nuts, use the table above as a guide when tightening.
- When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 200 mm.

Additional Precautions For R32 Models.

Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.



Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

● Insulating the Refrigerant Tubing

Unless the insulation is made, condensation can cause damage to the interior of a property. Use the supplied insulation material.

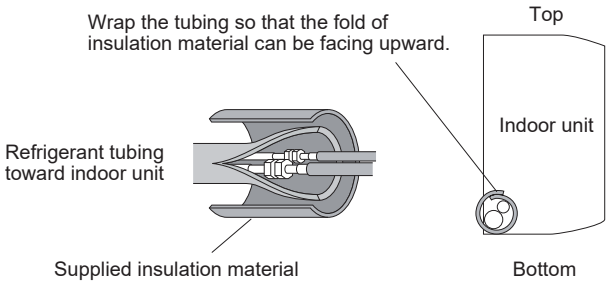
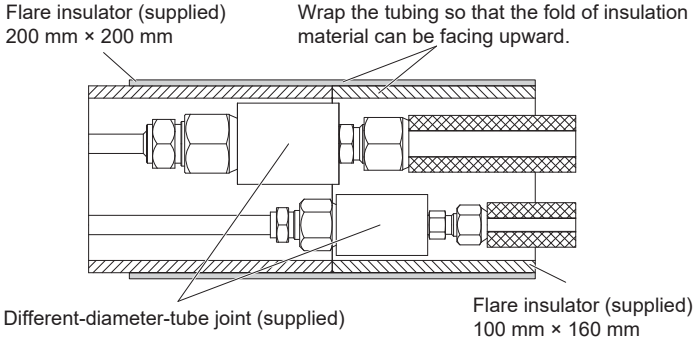


Illustration shows when using by S-6010PK3E.
(Only 60PZH3 , PZ3 series)

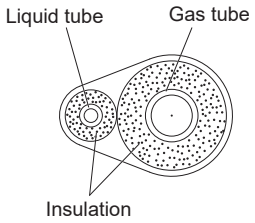


Tubing Insulation

Must ensure that pipe-work shall be protected from physical damage.

- Thermal insulation must be applied to all units tubing, including distribution joint (field supply).

Two tubes arranged together



* For gas tubing, the insulation material must be heat resistant to 120°C or above. For other tubing, it must be heat resistant to 80°C or above.

Insulation material thickness must be 10 mm or greater.

If the conditions inside the ceiling exceed DB 30°C and RH 70%, increase the thickness of the gas tubing insulation material by 1 step.

CAUTION

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

NOTE

Gas Leakage Detector
Note that the gas leakage detector should be capable of detecting the refrigerant R32.

Air Purging
Refer to “AIR PURGING” in the separate Installation Instructions for the outdoor unit in regard to air purging with a vacuum pump (for test run) preparation.

Taping the flare nuts
Cover up the tubing connections with the supplied flare insulator. Then fasten the insulator at both ends with the vinyl clamps (field supply).

Insulation material
The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.

CAUTION

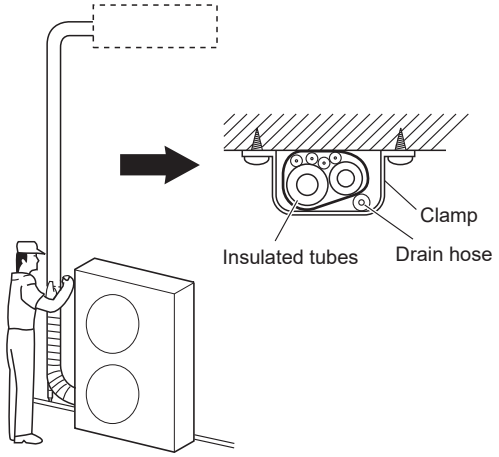
After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack. Never grasp the drain or refrigerant connecting outlets when moving the unit.

● Taping the Tubes

(1) At this time, the refrigerant tubes (and electrical wiring if local codes permit) should be taped together with armoring tape in 1 bundle. To prevent condensation from overflowing the drain pan, keep the drain hose separate from the refrigerant tubing.

(2) Wrap the armoring tape from the bottom of the outdoor unit to the top of the tubing where it enters the wall. As you wrap the tubing, overlap half of each previous tape turn.

(3) Clamp the tubing bundle to the wall, using 1 clamp approx. each meter.

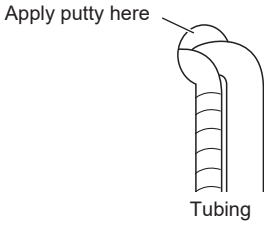


NOTE

Do not wind the armoring tape too tightly since this will decrease the heat insulation effect. Also ensure that the condensation drain hose splits away from the bundle and drips clear of the unit and the tubing.

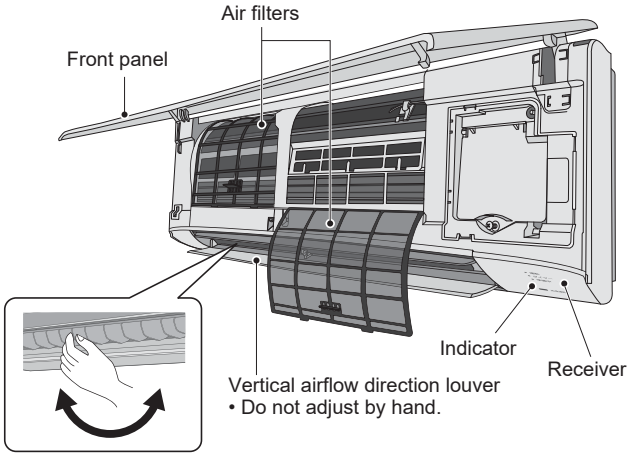
● Finishing the Installation

After finishing insulating and taping over the tubing, use sealing putty to seal off the hole in the wall to prevent rain and draft from entering.



■ BEFORE SWITCHING ON

Check if the filter is installed properly.
Check if the horizontal airflow direction louver works properly.



Horizontal airflow direction louver

■ HOW TO INSTALL THE TIMER REMOTE CONTROLLER OR HIGH-SPEC WIRED REMOTE CONTROLLER (OPTIONAL PART)

NOTE

See Section “2. TEST RUN”.

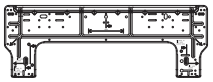
■ GENERAL

This booklet briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning. The installation of pipe-work shall be kept to a minimum.

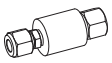
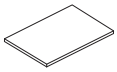
WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
CAUTION	This symbol shows that the Operating Instructions should be read carefully.
CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the Technical Manual.
CAUTION	This symbol shows that there is information included in the Operating Instructions and/or Installation Instructions.

● Accessories Supplied with Unit

Make sure all accessory parts listed are with the system before beginning.

Part Name	Figure	Q'ty	Remarks
Installation plate		1	
Screw (4×20)		5	For installation plate installation
Flare insulation		1	For flare nut insulation
Clamper		1	For fixing wires (optional)
Operating Instructions		1	
Installation Instructions		1	

As for S-6010PK3E, the following accessories are additionally provided.

Part Name	Figure	Q'ty	Remarks
Different-diameter-tube joint		1	Gas socket tube A : ø15.88 → ø12.7
		1	Liquid socket tube B: ø9.52 → ø6.35
Flare insulator		1	For flare nut insulation 100 mm × 160 mm

● Type of Copper Tube and Insulation Material

If you wish to purchase these materials separately from a local source, you will need:

1. Deoxidized annealed copper tube for refrigerant tubing.
   Cut each tube to the appropriate lengths +30 cm to 40 cm to dampen vibration between units.
2. Foamed polyethylene insulation for copper tubes as required to precise length of tubing.
   Wall thickness of the insulation should be not less than 8 mm.
3. Use insulated copper wire for field wiring. Wire size varies with the total length of wiring.
   See "1-10. Electrical Wiring" for details.

CAUTION

Check local electrical codes and regulations before obtaining wire. Also, check any specified instructions or limitations.

● Additional Materials Required for Installation

1. Refrigeration (armored) tape
2. Insulated staples or clamps for connecting wire (See your local codes.)
3. Putty
4. Refrigeration tubing lubricant
5. Clamps or saddles to secure refrigerant tubing
6. Scale for weighing

■ CHECKLIST AFTER INSTALLATION WORK

Work List	No.	Content	Check ☑	Possibility of Failure & Checkpoint
Installation	1	Are the indoor units installed following the content of Section "■ SELECTING THE INSTALLATION SITE"? (on page 1-11-1-3-1)	☐	There is a possibility of light injure or loss of property.
Tubing & Wiring	2	In the case of multiple installation: Is there a wrong tubing connection with another system?	☐	The unit is inoperated or the refrigerant flows into the inoperative unit and the leakage is expected. Check if there is a wrong tubing or wiring connection with another system.
	3	In the case of multiple installation: Is there a wrong wiring connection with another system?	☐	
	4	Is the earth leakage circuit breaker (all-pole switching function provided) installed?	☐	Power failure or short circuit may cause electric shock or fire. Check installation work and ground wire work.
	5	Is there any wrong installation of optional parts or wrong wiring?	☐	
	6	Was the ground wire work performed?	☐	
	7	Are there any wrong power supply wiring, wrong connection wire, wrong signal wire or loose screw?	☐	
	8	Is the thickness of wire in accordance with rule?	☐	
	9	Is the power-supply voltage equal to the nameplate of the unit?	☐	
	10	Was the check of the airtight test, flared tube fitting and gas leakage on the welded portion performed?	☐	If the gas leakage occurs, the unit quality not only becomes inferior but affects environment. Repair it as quickly as possible.
Drain Check	11	Has the adhesive been applied to the drain connecting portion (resin portion) of the indoor unit?	☐	The resin portion cracks after a few months and it may cause water drain.
	12	Is there water leakage?	☐	Since there is a possibility of water drain, repair the drain pipe if the drain failure or water drain occurs.
	13	Indoor unit drain pipe has a downward gradient (1/100 or more) by rule. Is the drain water flowing smoothly?	☐	
Heat Insulation	14	Was the heat insulation work at a suitable location including the flared tube fitting (refrigerant tube & drain pipe) performed properly?	☐	The quality of unit not only becomes inferior but there is a possibility of the water drain. So, perform the heat insulation work properly.
Test Run	15	Did the abnormal sound occur?	☐	Check if there is a fan contact or distortion of the indoor unit.
	16	Did the cool and warm airflow discharge from the indoor unit?	☐	Check if the unit does not operate or there is a wrong tubing or wiring connection with another system.

■ APPENDIX

● Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service.
If it still does not work properly, contact your dealer or a service center.

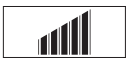
Indoor unit

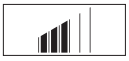
Symptom		Cause
Noise	Sound like streaming water during operation or after operation	• Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
	Cracking noise during operation or when operation stops.	Cracking sound due to temperature changes of parts
Odor	Discharged air is smelled during operation.	Indoor odor components, cigarette odor and cosmetic odor accumulated in the air conditioner and its air is discharged. Unit inside is dusty. Consult your dealer.
Dewdrop	Dewdrop gets accumulated near air discharge during operation	Indoor moisture is cooled by cool wind and accumulated by dewdrop.
Fog	Fog occurs during operation in cooling mode. (Places where large amounts of oil mist exist at restaurants.)	• Cleaning is necessary because unit inside (heat exchanger) is dirty. Consult your dealer as technical engineering is required. • During defrost operation
Fan is rotating for a while even though operation stops.		• Fan rotating makes operation smoothly. • Fan may sometimes rotate because of drying heat exchanger due to settings. • Fan may sometimes rotate in internal drying operation mode for a while.
Wind-direction changes while operating. Wind-direction setting cannot be made. Wind-direction cannot be changed.		• When air discharge temperature is low or during defrost operation, horizontal wind flow is made automatically. • Flap position is occasionally set up individually.
When wind-direction is changed, flap operates several times and stops at designated position.		When wind-direction is changed, flap operates after searching for standard position.
Dust		Dust accumulation inside indoor unit is discharged.
Poor cooling or heating performance		The indoor unit is initially designed to control the indoor temperature detected by the built-in room sensor inside the indoor unit. Due to indoor unit installation position, however, the built-in sensor may occasionally sense temperature improperly; for example, temperature difference between the ceiling and floor, lighting apparatus, electric fan, windows or waist-high partition walls, etc. In this case, the unit does not operate properly at the desired temperature. You may change the use of the temperature sensor inside the indoor unit to that of the remote controller. Then the desired room temperature can be controlled properly. For details, consult your dealer.

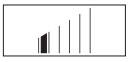
Check Before Requiring Services

Symptom	Cause	Remedy
Air conditioner does not run at all although power is turned on.	Power failure or after power failure	Press ON/OFF operation button on remote controller again.
	Operation button is turned off.	• Switch on power if breaker is turned off. • If breaker has been tripped, consult your dealer without turning it on.
	Fuse blow out.	If blown out, consult your dealer.
Poor cooling or heating performance	Air intake or air discharge port of indoor and outdoor units is clogged with dust or obstacles.	Remove dust or obstruction.
	Fan speed switch is set to “Low”.*	Change to “Medium” or “High”.*
	Improper temperature settings	See Section “● Tips for Energy Saving”.
	Room is exposed to direct sunlight in cooling mode.	
	Doors and /or windows are open.	
	Air filter is clogged.	Refer to the Operating Instructions.
	Too much heat sources in room in cooling mode.	Use minimum heat sources and in a short time.
	Too many people in room in cooling mode.	Reduce temperature settings or change to “Medium” or “High”.*

*Fan speed display on the remote controller

High :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Medium :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Low :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

If your air conditioner still does not work properly although you checked the points as described above, first stop the operation and turn off the power switch. Then contact your dealer and report the serial number and symptom. Never repair your air conditioner by yourself since it is very dangerous for you to do so.

● Tips for Energy Saving

Avoid

- **Do not block the air intake and outlet of the unit. If either is obstructed, the unit will not work well, and may be damaged.**
- Do not let direct sunlight into the room. Use sunshades, blinds or curtains. If the walls and ceiling of the room are warmed by the sun, it will take longer to cool the room.

Do

- Always try to keep the air filter clean. (Refer to the Operating Instructions.) A clogged filter will impair the performance of the unit.
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

NOTE

Should the power fail while the unit is running

If the power supply for this unit is temporarily cut off, the unit will automatically resume operation once power is restored using the same settings before the power was interrupted.

■ IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

SERVICING

CAUTION

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, (2) to (6) shall be completed prior to conducting work on the system.

(1) Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

(2) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(3) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(4) If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

(5) No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

(6) Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

(7) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.
- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

(8) Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
Initial safety checks shall include:
- That capacitors are discharged. This shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer’s specifications.

  NOTE:
  The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

■ REMOVAL AND EVACUATION

CAUTION

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:
  • Remove refrigerant.
  • Purge the circuit with inert gas.
  • Evacuate.
  • Purge again with inert gas.
  • Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be “flushed” with Oxygen Free Nitrogen (OFN) to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with Oxygen Free Nitrogen (OFN) and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final Oxygen Free Nitrogen (OFN) charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

■ CHARGING PROCEDURES

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

■ DECOMMISSIONING

CAUTION

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
  • Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
  • All personal protective equipment is available and being used correctly.
  • The recovery process is supervised at all times by a competent person.
  • Recovery equipment and cylinders conform to the appropriate standards.
  d) Pump down refrigerant system, if possible.
  e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
  f) Make sure that cylinder is situated on the scales before recovery takes place.
  g) Start the recovery machine and operate in accordance with manufacturer’s instructions.
  h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
  i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
  j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
  k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging / discharging.

■ RECOVERY

NOTE

See “11. Recovery” on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6 and 1-11-2-4-6.

1-11-1-4. Ceiling Type

■ SELECTING THE INSTALLATION SITE

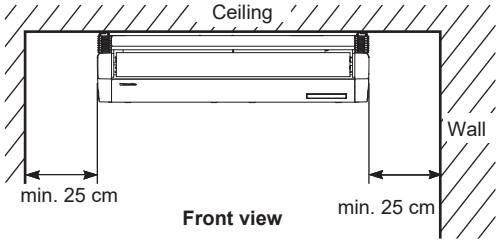
AVOID:

- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause “condensation” on the air discharge ports, causing them to spray or drip water.
- locations where the remote controller will be splashed with water or affected by dampness or humidity.
- installing the remote controller behind curtains or furniture.
- locations where high-frequency emissions are generated.

DO:

- select an appropriate position from which every corner of the room can be uniformly cooled.
- select a location where the ceiling is strong enough to support the weight of the unit.
- select a location where tubing and drain pipe have the shortest run to the outdoor unit.
- allow room for operation and maintenance as well as unrestricted air flow around the unit.
- the limitation of the tubing length between the indoor and the outdoor units should be checked “1-11-2. Installation Instructions of Outdoor Unit”.
- allow room for mounting the remote controller about 1 m off the floor, in an area that is not in direct sunlight or in the flow of cool air from the indoor unit.

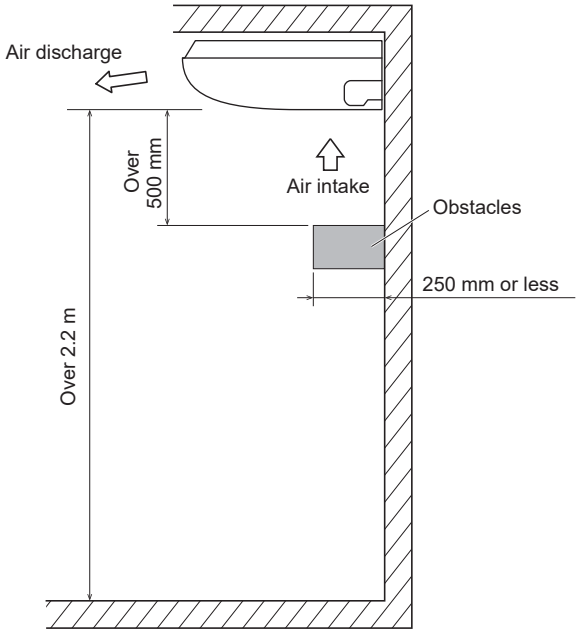
Ceiling



Front view

NOTE

The rear of the indoor unit can be installed flush against the wall.



Side view

■ HOW TO INSTALL THE INDOOR UNIT

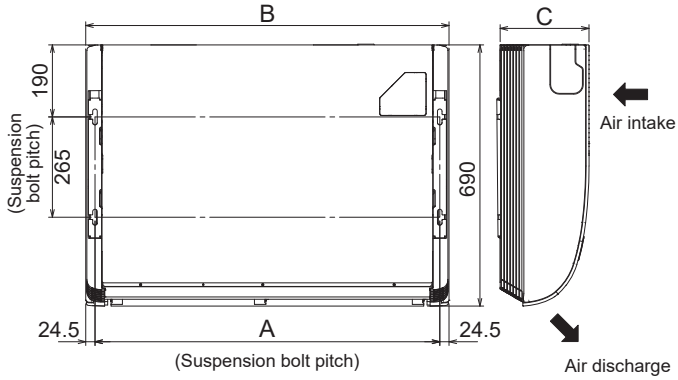
Unit: mm

● Required Minimum Space for Installation and Service

(1) Dimensions of suspension bolt pitch and unit

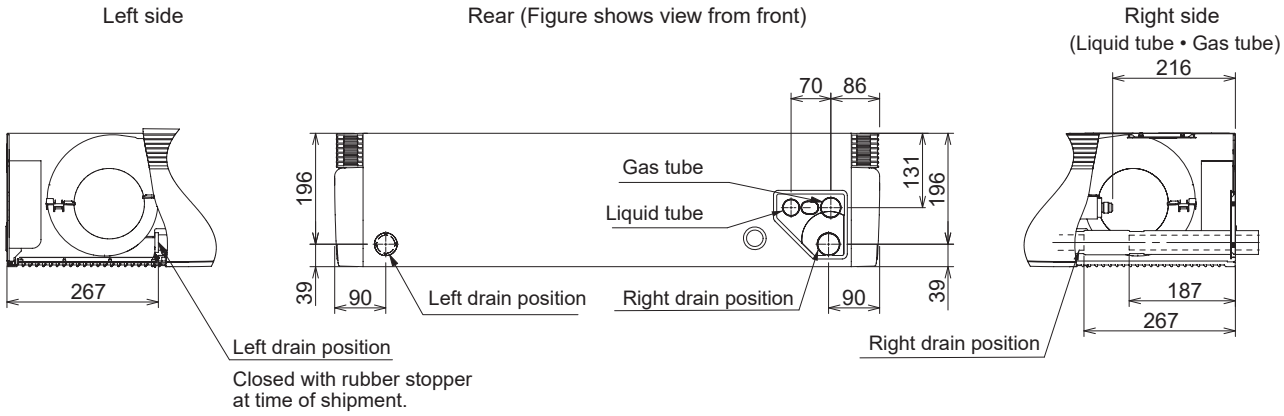
Type \ Length	A	B	C
S-3650PT3E	911	960	235
S-6071PT3E	1,226	1,275	235
S-1014PT3E	1,541	1,590	235

Unit: mm



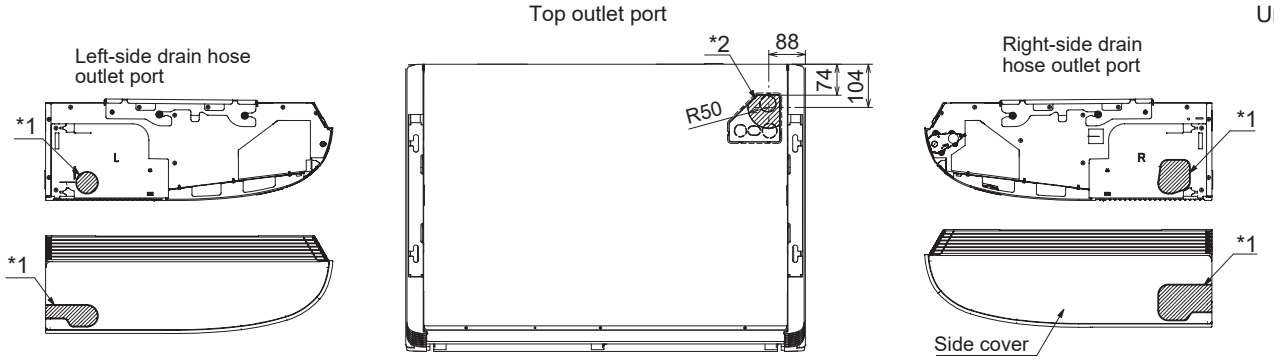
(2) Refrigerant tubing • drain hose position

Unit: mm

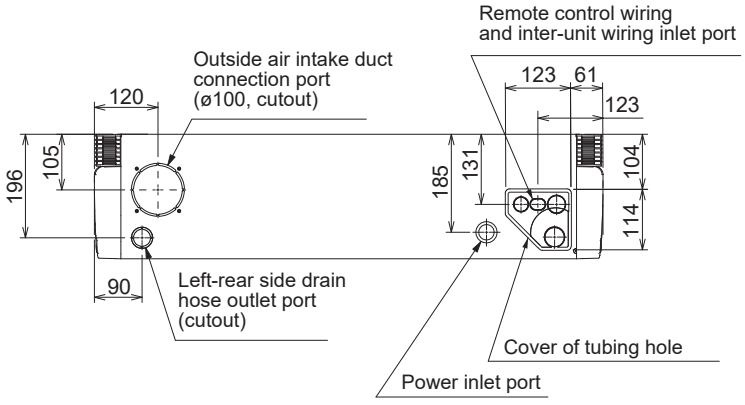


(3) Unit opening position (Refrigerant tubing • drain hose • power inlet port • remote control wiring inlet port)

Unit: mm



Rear outlet port (Figure shows view from front)



*1 Use a compass saw, jigsaw or similar tool and cut along the indented portion of the side cover and make a hole inside the cover.

*2 When removing the refrigerant tubing from the upper side, cut along the indented portion and pass the tubing through the hole.

NOTE

Be sure to use sealing putty to seal off the opening to prevent dust.

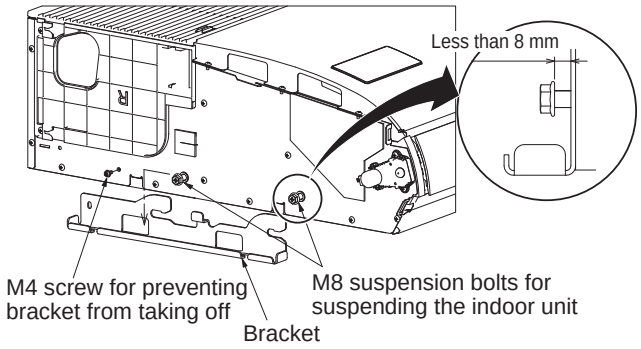
● Preparation Before Installation

(1) Remove the bracket (for suspending the indoor unit).

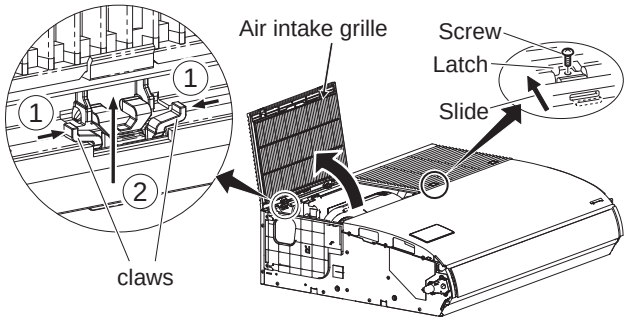
Loose the M8 suspension bolts.
Then remove the bracket.

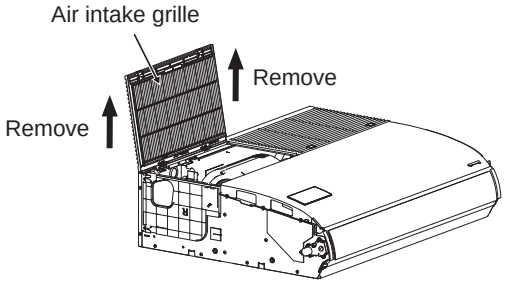
NOTE

Loosen the M8 suspension bolts and expose the axis of bolts less than 8 mm.



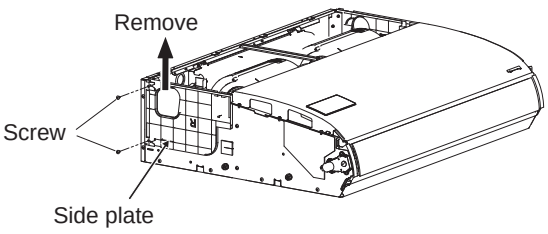
(2) Remove the air intake grille before suspending the indoor unit. First, remove 2 attachment screws fixed with the latches. Open the air intake grille and hold the claws of the hinges on both sides. Then remove the air intake grille and suspension lug located on the left and right side of the indoor unit.





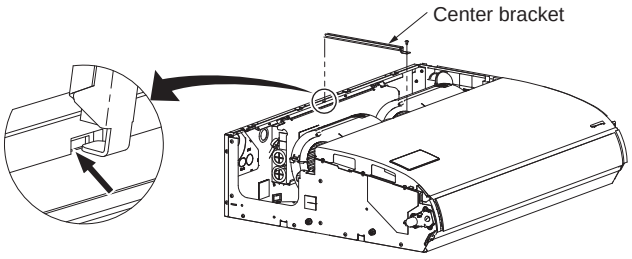
(3) Remove the side plate to the tubing side.

Rear & upper side tubing connection	Remove 2 screws. Slide the side plate in the direction of the arrow and remove it.
Right side tubing connection	Do not remove the side plate.



(4) Remove the center bracket.

When wiring, remove the center bracket if necessary.
When wiring is completed, reinstall the center bracket in its original position.

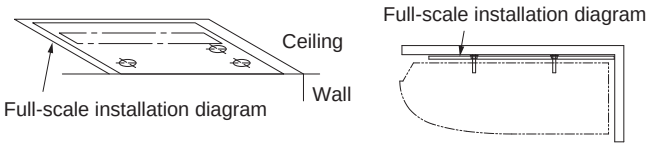


● Suspending the Indoor Unit

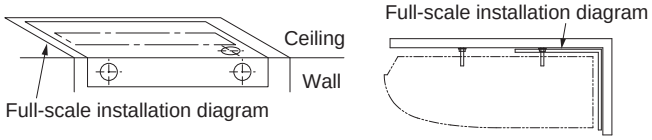
NOTE

Since the diagram is made of paper, it may shrink or stretch slightly because of high temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.

(1) If the full-scale installation diagram is placed on the ceiling, the locations of each suspension bolt can be chosen.
Take a pencil and mark the drill holes.



(2) If the full-scale installation diagram is bent at right angle to the ceiling and wall, the locations of the inlet for indoor tubing and wiring are chosen and the locations of each suspension bolt can also be chosen.
Take a pencil and mark the drill holes.



NOTE

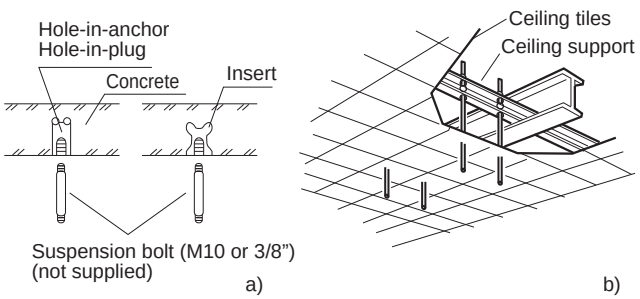
The dimension when the indoor unit is placed tightly against the wall.
When installing away from the wall, drainage gradient should be taken into consideration.

(3) Drill holes at the 4 points indicated on the full-scale diagram.

(4) Depending on the ceiling type:

a) Insert suspension bolts.
or

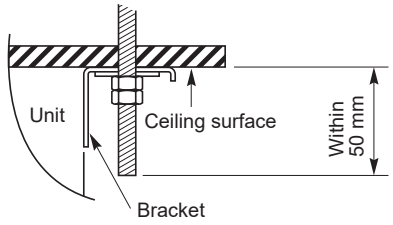
b) Use existing ceiling supports or construct a suitable support.



WARNING

It is important that you use extreme care in supporting the indoor unit from the ceiling. Ensure that the ceiling is strong enough to support the weight of the unit. Before hanging the ceiling unit, test the strength of each attached suspension bolt.

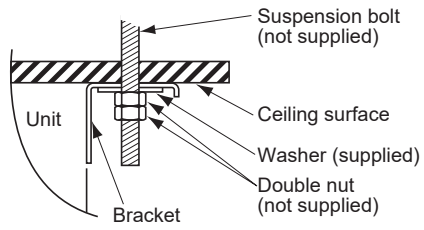
(5) Screw in the suspension bolts, allowing them to protrude from the ceiling.
The distance of each exposed bolt must be of equal length within 50 mm.

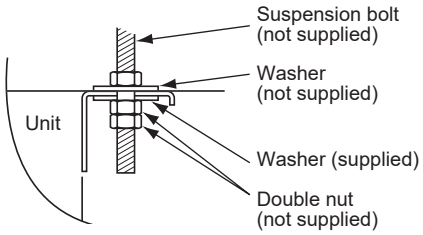


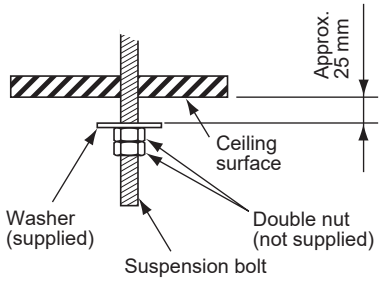
(6) Carry out the preparation for suspending the indoor unit. The suspension method varies depending on whether there is a suspended ceiling or not.

(7) Suspend the indoor unit as follows:

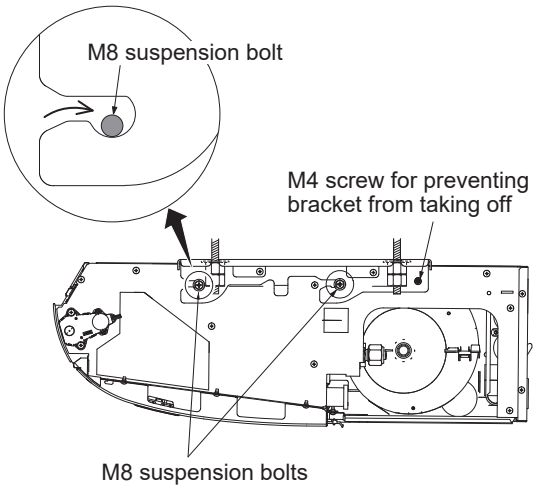
a) Install the bracket to the suspension bolt. Stick it onto the ceiling surface.







b) Suspend the indoor unit to the bracket.
Tighten the M8 suspension bolts and fix the indoor unit in place.



NOTE

The ceiling surface is not always level. Confirm that the indoor unit is evenly suspended. For the installation to be correct, leave a clearance of about 10 mm between the ceiling panel and the ceiling surface and fill the gap with an appropriate insulation or filler material.

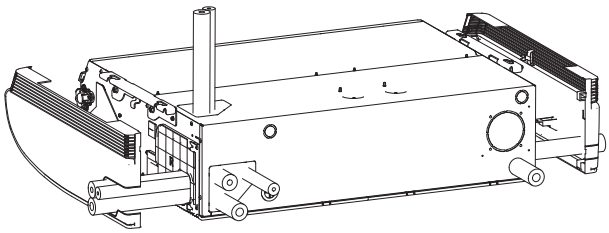
● Duct for Fresh Air (Field supply)

There is a outside air intake duct connection port (cut out hole) at the left-rear of the indoor unit for drawing in fresh air. If it is necessary to draw in fresh air, remove the cover by opening the hole and connecting the duct to the indoor unit through the connection port. See the figure under the section on page 1-11-1-4-2 (3).

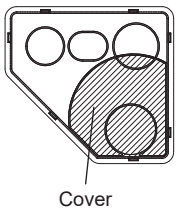
● Shaping the Tubing

- The positions of the refrigerant tubing connections are shown in the figure below. (The tubing can be routed in 3 directions.)

* When routing the tubing out through the top or right sides, cut out the cover of the top panel and cut notches in the side panel. See the figure under the section on page 1-11-1-4-2 (3).



If the tubing is to be routed out together, use a box cutter or similar tool to cut out the part of the cover indicated by the marked area, to match the positions of the tubes. Then draw out the tubing.

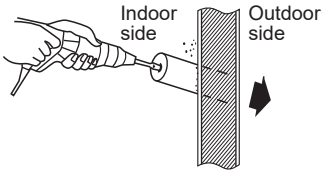


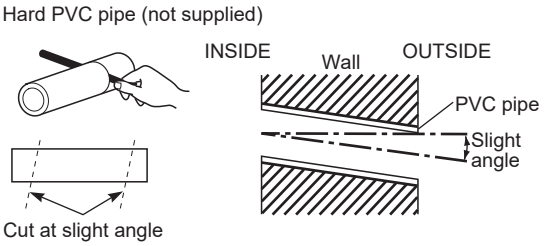
● Installing the Drain Pipe

- Prepare hard PVC pipe for the drain and connect it to the indoor unit drain pipe with the supplied hose band to prevent water leaks.
- Measure the thickness of the wall from the inside to the outside and cut PVC pipe at a slight angle to fit. Insert the PVC pipe in the wall.

NOTE

The hole should be made at a slight downward slant to the outside.





(1) Drain hose connection

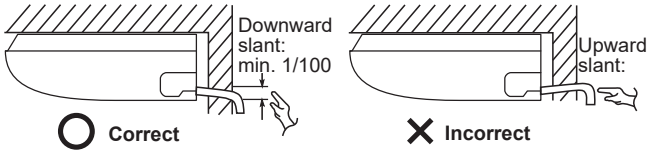
- The drain hose is connected below the refrigerant tubing.

(2) Installing the drain hose

- First insert the drain hose (supplied) to the hose band (supplied) and then install the drain hose to the unit drain port.
- Insert until the drain hose bumps to the end.
- Attach the hose band to make the fixed portion 45°upper gradient according to a vinyl tape (not supplied) of the drain hose (supplied).
- Hose band screw torque is 30 - 35N · cm.
- Wind the vinyl tape not to blow up the hose band.
- Connect both the drain hose and PVC pipe (VP20 or similar material, not supplied). Insert until the PVC pipe bumps to the end and adhere with PVC adhesive.

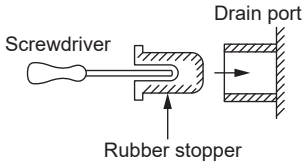
CAUTION

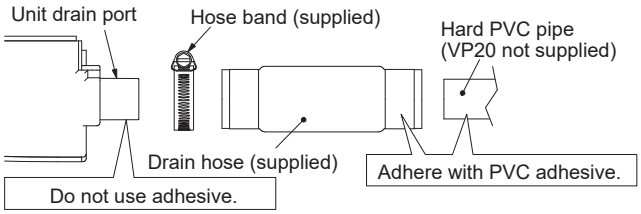
- **Wrap the drain insulator (supplied) between the connection of the drain hose and tubing not to expose the copper tubing. Also, wrap the hose band together. Wrap the hose band with the drain insulator, where the screw is located facing upward. Then, tighten the insulator with a vinyl tape not to cause the detachment. If the tubing parts remain exposed, condensation may occur.**
- **Be sure to use the supplied drain hose.**
- If other commercially available hose bands are used, the drain hose may become pinched or wrinkled and there is danger of water leakage.
  Therefore be sure to use the supplied hose bands.
- Connect the drain pipe so that it slopes downward from the unit to the outside.

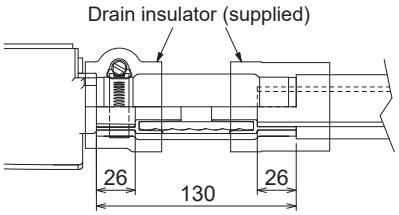


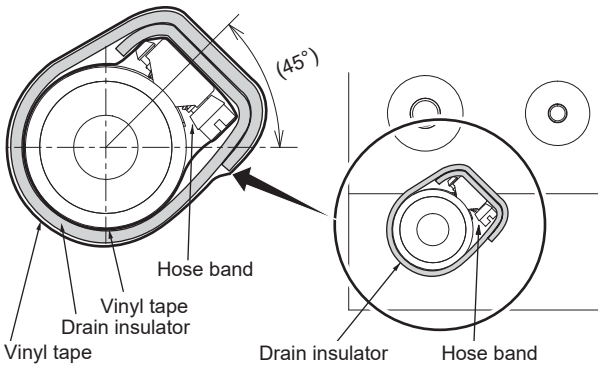
- Never allow water traps to occur in the course of the piping.
- Insulate any piping inside the room to prevent dripping.
- After the drain piping, pour an appropriate amount of water into the drain pan through the opening on the side of the air discharge port. Check the water draining smoothly.
  * If the drain hose is routed through the left side, see the figure under the section “Shaping the Tubing” on page 1-11-1-4-4, and follow the procedure above to install the hose.
    Reattach the rubber stopper removed earlier onto the right side.

The rubber stopper can be inserted easily by using a screwdriver or similar tool to press the stopper into the drain port on the main unit. Press the stopper into the main unit drain port as far as it will go.



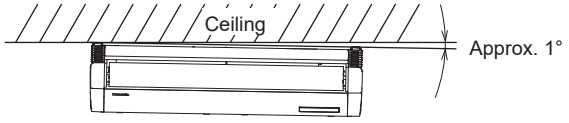




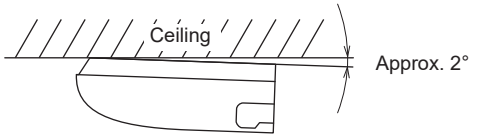


CAUTION

The indoor unit should be slightly tilted downward toward the drain pipe connection side as shown in figure below so that the wastewater can flow smoothly without being trapped in the middle.



Diagonally right down (front view)
(Ex.: Diagonal-right-backwards)



Diagonally backward (side view)

HOW TO PROCESS TUBING

Must ensure mechanical connections be accessible for maintenance purposes.

Connecting the Refrigerant Tubing

NOTE

When connecting flare at indoor side, make sure that the flare connection is used only once. If torqued up and released, the flare must be remade. Once the flare connection was torqued up correctly and leak test was made, thoroughly clean and dry the surface to remove oil, dirt and grease by following instructions of silicone sealant. Apply neutral cure & ammonia-free silicone sealant that is non-corrosive to copper & brass to the external of the flared connection to prevent the ingress of moisture on both the gas & liquid sides. (Moisture may cause freezing and premature failure of the connection.)

Use of the Flaring Method

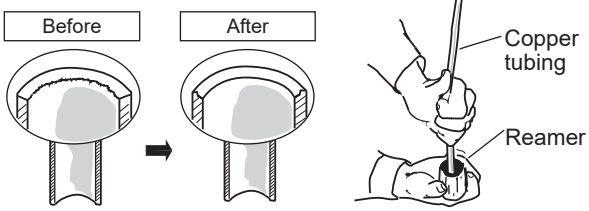
Many of conventional split system air conditioners employ the flaring method to connect refrigerant tubes that run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

Flaring Procedure with a Flare Tool

(1) Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 30 – 50 cm longer than the tubing length you estimate.

(2) Remove burrs at each end of the copper tubing with a tube reamer or a similar tool. This process is important and should be done carefully to make a good flare. Be sure to keep any contaminants (moisture, dirt, metal filings, etc.) from entering the tubing.

Deburring

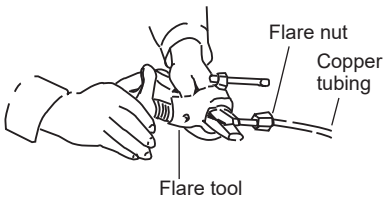


NOTE

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube.

(3) Remove the flare nut from the unit and be sure to mount it on the copper tube.

(4) Make a flare at the end of the copper tube with a flare tool.



NOTE

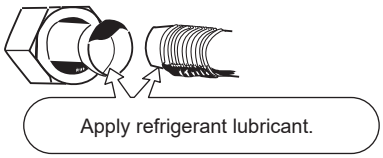
When flared joints are reused, the flare part shall be re-fabricated.
A good flare should have the following characteristics:

- inside surface is glossy and smooth
- edge is smooth
- tapered sides are of uniform length

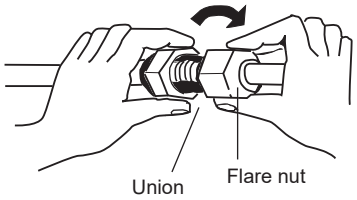
Caution Before Connecting Tubes Tightly

(1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.

(2) Be sure to apply refrigerant lubricant (ether oil) to the inside of the flare nut before making piping connections. This is effective for reducing gas leaks.



(3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match.



- Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.

● **Connecting Tubing Between Indoor and Outdoor Units**

(1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing.

Indoor Unit Tubing Connection Unit : mm

Indoor unit type	S-3650PT3E	S-6071PT3E	S-1014PT3E
Gas tube	ø12.7	ø15.88(ø12.7)	ø15.88
Liquid tube	ø6.35	ø9.52(ø6.35)	ø9.52

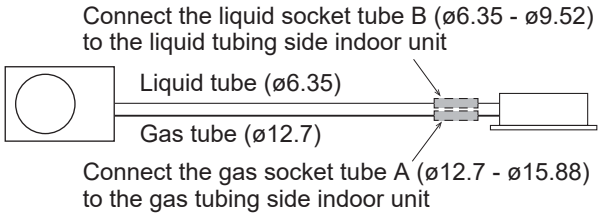
Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-6071PT3E.

The size of parenthesis indicates the connection tube diameter when using the different-diameter-tube joint.

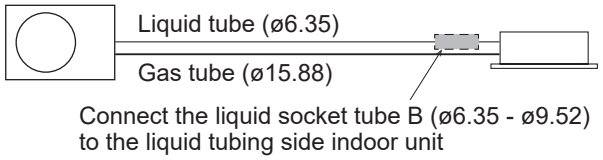
How to use different-diameter-tube joint (supplied)

1) When using with single connection

• Outdoor PZ3 series (Type 60)・PZH3 series (Type 60)



• Outdoor PZ3 series (Type 71)



The following examples show the multiple connections.

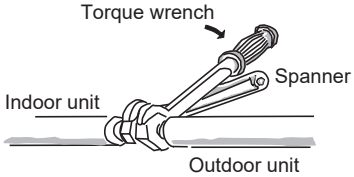
- Connectable or disconnectable units vary depending on a series of outdoor units.
  See “7. TWIN TYPE CONNECTIONS” on page 1-11-2-2-24 and “7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS” on page 1-11-2-4-23 as well.
- Two, three or four indoor units can be operated simultaneously with a single remote controller.
  Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin, triple and double twin system.
  No address setting is necessary.

Applicable “TWIN”, “TRIPLE” and “DOUBLE TWIN” combination table

	Outdoor unit	Type 71 (Only PZH series)	Type 100	Type 125	Type 140
TWIN	combination	U-71 / S-3650 S-3650	U-100 / S-3650 S-3650	U-125 / S-6071 S-6071	U-140 / S-6071 S-6071
TRIPLE	combination (Only PZH series)		U-100 / S-3650 S-3650 S-3650	U-125 / S-3650 S-3650 S-3650	U-140 / S-3650 S-3650 S-3650
DOUBLE TWIN	combination (Only PZH series)			U-125 / S-3650 S-3650 S-3650 S-3650	

(2) To fasten the flare nuts, apply specified torque.

- When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use two spanners. When tightening the flare nuts, use a torque wrench.
  If the flare nuts are over-tightened, the flare may be damaged, which could result in refrigerant leakage and cause injury or asphyxiation to room occupants.



- For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R32 (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table below.

Tube diameter	Tightening torque (approximate)	Tube thickness
ø6.35 (1/4")	14 – 18 N · m {140 – 180 kgf · cm}	0.8 mm
ø9.52 (3/8")	34 – 42 N · m {340 – 420 kgf · cm}	0.8 mm
ø12.7 (1/2")	49 – 55 N · m {490 – 550 kgf · cm}	0.8 mm
ø15.88 (5/8")	68 – 82 N · m {680 – 820 kgf · cm}	1.0 mm

Because the pressure is approximately 1.6 times higher than conventional refrigerant R22 pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.

- In order to prevent damage to the flare caused by over-tightening of the flare nuts, use the table above as a guide when tightening.
- When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 200 mm.

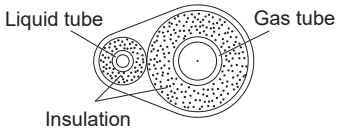
● Insulating the Refrigerant Tubing

Tubing Insulation

Must ensure that pipe-work shall be protected from physical damage.

- Thermal insulation must be applied to all units tubing, including distribution joint (field supply).

Two tubes arranged together



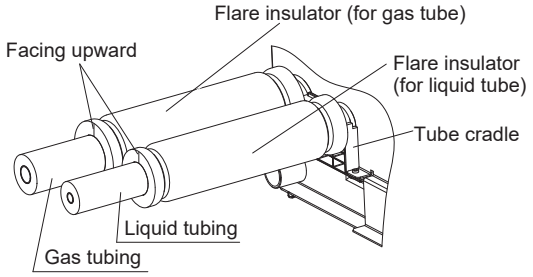
* For gas tubing, the insulation material must be heat resistant to 120°C or above. For other tubing, it must be heat resistant to 80°C or above.
Insulation material thickness must be 10 mm or greater.
If the conditions inside the ceiling exceed DB 30°C and RH 70%, increase the thickness of the gas tubing insulation material by 1 step.

CAUTION

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

Insulation of the flare nuts

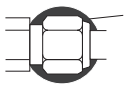
Attach the flare insulator (supplied) just like wrapping around the flare nut (supplied). Match the both slits of flare insulators for gas and liquid tubes facing upward. Tightly attach the end of the flare insulators to the tube cradle without any space. Then clamp the flare insulator with the clampers about 20 mm away from both ends.



Additional Precautions For R32 Models.

Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.

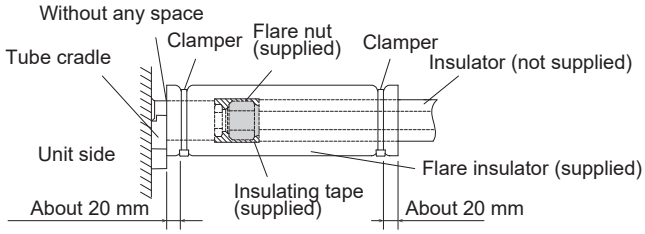


Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

Taping the flare nuts

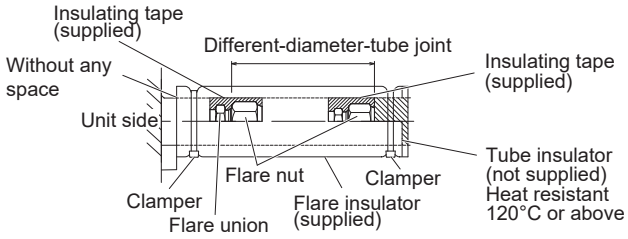
Wind the insulating tape around the flare nuts at the gas/liquid tube connections. Then cover up the tubing connections with the flare insulator. Finally, fasten the insulator at both ends with the supplied vinyl clamps.



NOTE

Tighten the clampers to prevent any condensation that may occur as the copper tubing is exposed.

* Illustration shows when using by S-6071PT3E.
(Only 60PZH3 , PZ3 series)



Insulation material

The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.

CAUTION

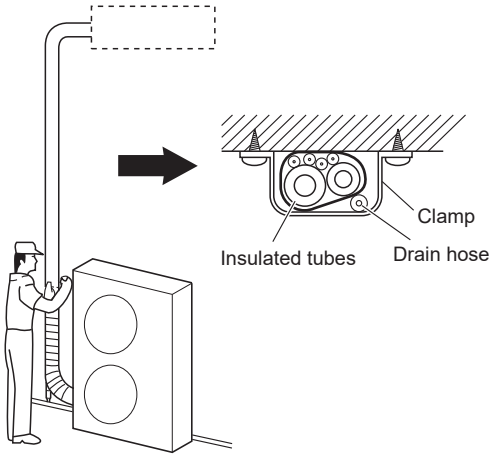
After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack.
Never grasp the drain or refrigerant connecting outlets when moving the unit.

● Taping the Tubes

(1) At this time, the refrigerant tubes (and electrical wiring if local codes permit) should be taped together with armoring tape in 1 bundle. To prevent condensation from overflowing the drain pan, keep the drain hose separate from the refrigerant tubing.

(2) Wrap the armoring tape from the bottom of the outdoor unit to the top of the tubing where it enters the wall. As you wrap the tubing, overlap half of each previous tape turn.

(3) Clamp the tubing bundle to the wall, using 1 clamp approx. each meter.

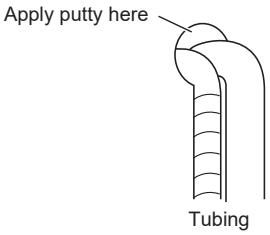


NOTE

Do not wind the armoring tape too tightly since this will decrease the heat insulation effect. Also ensure that the condensation drain hose splits away from the bundle and drips clear of the unit and the tubing.

● Finishing the Installation

After finishing insulating and taping over the tubing, use sealing putty to seal off the hole in the wall to prevent rain and draft from entering.



FINAL PROCEDURE

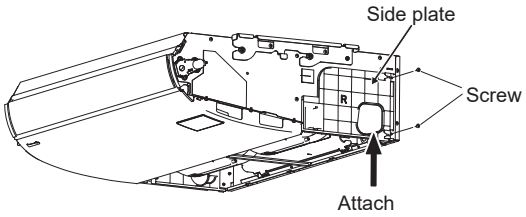
Reinstall the removed part to be placed in its original position.

(See the section “Preparation Before Installation” on page 1-11-1-4-3.)

Then install the supplied side covers (L/R) on both sides of the indoor unit.

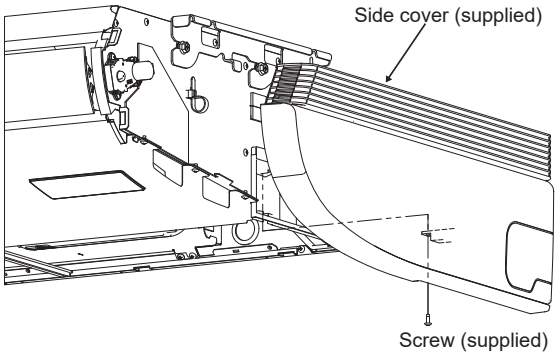
- Attach the supplied side plates.

  Insert the side plates in the direction of the arrow and fix them with 2 screws once you’ve removed.



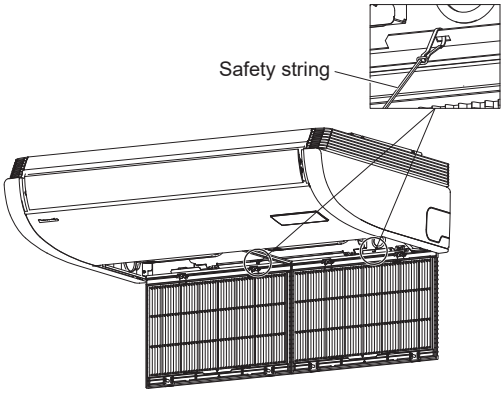
- Attach the supplied side covers.

  Slide the covers from the front side and attach to the claws of the latches.
  Tighten the screws (supplied).



- Attach the air intake grille.
  When attaching the air intake grille, perform the reverse procedure to removing the grille.
  See the section “Preparation Before Installation” on page page 1-11-1-4-3. Be sure to attach the safety string.

  Close the air intake grille and fix the claws of the latches with the screws.



■ HOW TO INSTALL THE TIMER REMOTE CONTROLLER OR HIGH-SPEC WIRED REMOTE CONTROLLER (OPTIONAL PART)

NOTE

See Section “2. TEST RUN”.

■ HOW TO INSTALL WIRELESS REMOTE CONTROLLER

NOTE

See “Section 8. HOW TO INSTALL THE WIRELESS REMOTE CONTROLLER RECEIVER”.

■ GENERAL

This booklet briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning. The installation of pipe-work shall be kept to a minimum.

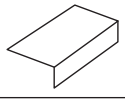
WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
CAUTION	This symbol shows type of flammable refrigerant contained in the system.
CAUTION	This symbol shows that the Operating Instructions should be read carefully.
CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the Technical Manual.
CAUTION	This symbol shows that there is information included in the Operating Instructions and/or Installation Instructions.

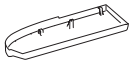
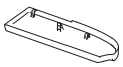
● Tools Required for Installation (not supplied)

1. Flathead screwdriver
2. Phillips head screwdriver
3. Knife or wire stripper
4. Tape measure
5. Carpenter's level
6. Sabre saw or keyhole saw
7. Hacksaw
8. Core bits
9. Hammer
10. Drill
11. Tube cutter
12. Tube flaring tool
13. Torque wrench
14. Adjustable wrench
15. Reamer (for deburring)

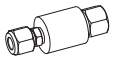
● Accessories Supplied with Unit

The accessory parts are supplied inside the indoor unit. Open the air intake grille of the indoor unit and take out a package of accessories. See "● Preparation Before Installation" on page 1-11-1-4-3.

Part Name	Figure	Q'ty	Remarks
Special washer		4	For temporarily suspending indoor unit from ceiling
Drain insulator		2	For drain hose joint
Flare insulator		1	For gas tube joint
		1	For liquid tube joints
Clamper		6	For flare insulator and wiring
Full-scale installation diagram		1	For positioning installation

Part Name	Figure	Q'ty	Remarks
Drain hose		1	For main unit + PVC pipe joints
Insulating tape		2	For gas and liquid tubes flare nuts
Hose band		1	For drain hose connection
Side cover (R)		1	(Packed in carton box) For right side
Side cover (L)		1	(Packed in carton box) For left side
Screw		2	For side cover (L/R)
Operating Instructions		1	
Installation Instructions		1	

As for S-6071PT3E, the following accessories are additionally provided.

Part Name	Figure	Q'ty	Remarks
Different-diameter-tube joint		1	Gas socket tube A : ø15.88 → ø12.7
		1	Liquid socket tube B : ø9.52 → ø6.35
Insulating tape		2	For gas and liquid tube flare nuts

• Use M10 for suspension bolts.
• Field supply for suspension bolts and nuts.

● Type of Copper Tube and Insulation Material

If you wish to purchase these materials separately from a local source, you will need:

1. Deoxidized annealed copper tube for refrigerant tubing.
2. Foamed polyethylene insulation for copper tubes as required to precise length of tubing.
   Wall thickness of the insulation should be not less than 8 mm.
3. Use insulated copper wire for field wiring. Wire size varies with the total length of wiring.

See "1-10. Electrical Wiring" for details.

CAUTION

Check local electrical codes and regulations before obtaining wire. Also, check any specified instructions or limitations.

● Additional Materials Required for Installation

1. Refrigeration (armored) tape
2. Insulated staples or clamps for connecting wire (See your local codes.)
3. Putty
4. Refrigeration tubing lubricant
5. Clamps or saddles to secure refrigerant tubing
6. Scale for weighing

■ CHECKLIST AFTER INSTALLATION WORK

Work List	No.	Content	Check ☑	Possibility of Failure & Checkpoint
Installation	1	Are the indoor units installed following the content of the section "■ SELECTING THE INSTALLATION SITE"? (on page 1-11-1-4-1)	☐	There is a possibility of light injure or loss of property.
Tubing & Wiring	2	In the case of multiple installation: Is there a wrong tubing connection with another system?	☐	The unit is inoperated or the refrigerant flows into the inoperative unit and the leakage is expected. Check if there is a wrong tubing or wiring connection with another system.
	3	In the case of multiple installation: Is there a wrong wiring connection with another system?	☐	
	4	Is the earth leakage circuit breaker (all-pole switching function provided) installed?	☐	Power failure or short circuit may cause electric shock or fire. Check installation work and ground wire work.
	5	Is there any wrong installation of optional parts or wrong wiring?	☐	
	6	Was the ground wire work performed?	☐	
	7	Are there any wrong power supply wiring, wrong connection wire, wrong signal wire or loose screw?	☐	
	8	Is the thickness of wire in accordance with rule?	☐	
	9	Is the power-supply voltage equal to the nameplate of the unit?	☐	
	10	Was the check of the airtight test, flared tube fitting and gas leakage on the welded portion performed?	☐	If the gas leakage occurs, the unit quality not only becomes inferior but affects environment. Repair it as quickly as possible.
Drain Check	11	Has the adhesive been applied to the drain connecting portion (resin portion) of the indoor unit?	☐	The resin portion cracks after a few months and it may cause water drain.
	12	Is there water leakage?	☐	Since there is a possibility of water drain, repair the drain pipe if the drain failure or water drain occurs.
	13	Indoor unit drain pipe has a downward gradient (1/100 or more) by rule. Is the drain water flowing smoothly?	☐	
Heat Insulation	14	Was the heat insulation work at a suitable location including the flared tube fitting (refrigerant tube & drain pipe) performed properly?	☐	The quality of unit not only becomes inferior but there is a possibility of the water drain. So, perform the heat insulation work properly.
Test Run	15	Did the abnormal sound occur?	☐	Check if there is a fan contact or distortion of the indoor unit.
	16	Did the cool and warm airflow discharge from the indoor unit?	☐	Check if the unit does not operate or there is a wrong tubing or wiring connection with another system.

■ APPENDIX

● Care and Cleaning

WARNING

- **For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.**
- **Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard.**

Air intake and outlet side (Indoor unit)

Clean the air intake and outlet side of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth.

If these parts are stained, use a clean cloth moistened with water. When cleaning the air outlet side, be careful not to force the vanes out of place.

CAUTION

- **Never use solvents or harsh chemicals when cleaning the indoor unit. Do not wipe plastic parts using very hot water.**
- **Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.**
- **The internal coil and other components of outdoor unit must be cleaned regularly. Consult your dealer or service center.**

Air filter

It is recommended that the air filter be cleaned when the ▦ (Filter) appears on the display.

- **After Cleaning**

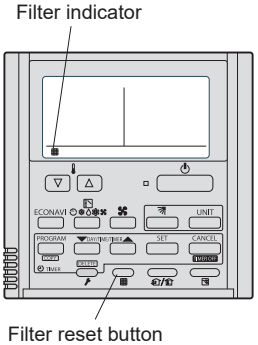
1. After the air filter is cleaned, reinstall it in its original position. Be sure to reinstall in reverse order.
2. [In the case of Timer Remote Controller]

   Press the Filter reset button.
   The ▦ (Filter) indicator on the display goes out.

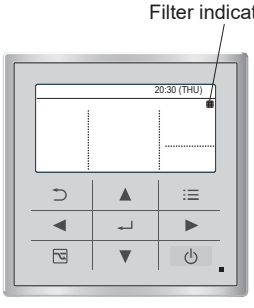
   [In the case of High-spec Wired Remote Controller]

   Refer to the Operating Instructions attached to the optional High-spec Wired Remote Controller.

Timer Remote Controller



High-spec Wired Remote Controller



NOTE

The frequency with which the filter should be cleaned depends on the environment in which the unit is used.
Clean the filter frequently for best performance in the area of dusty or oil spots regardless of filter status.

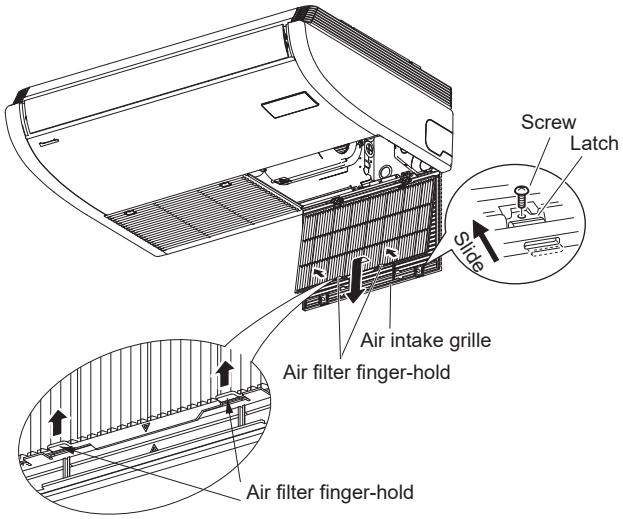
<How to clean the filter>

1. Remove the air filter from the air intake grille.
2. Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, and dry it.

<How to remove the filter>

Ceiling Type (T3)

1. Remove 2 attachment screws fixed with the latches. Take hold of the finger-hold on the air intake grille and press it to the rear, and the grille will open downward.
2. Take hold of the finger-hold on the air filter, pull it toward you.



* Take hold of the finger-hold on the air filter, pull it toward you.

CAUTION

- **Certain metal edges and the condenser fins are sharp and may cause injury if handled improperly; special care should be taken when you clean these parts.**
- **Periodically check the outdoor unit to see if the air outlet or air intake is clogged with dirt or soot.**
- **The internal coil and other components must also be cleaned periodically. Consult your dealer or service center.**

Care: After a prolonged idle period

Check the indoor and outdoor unit air intakes and outlets for blockage; if there is a blockage, remove it.

Care: Before a prolonged idle period

- Operate the fan for half a day to dry out the inside.
- Disconnect the power supply and also turn off the circuit breaker.
- Clean the air filter and replace it in its original position.
- Outdoor unit internal components must be checked and cleaned periodically. Contact your local dealer for this service.

■ Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service.
If it still does not work properly, contact your dealer or a service center.

Indoor unit

Symptom		Cause
Noise	Sound like streaming water during operation or after operation	• Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
	Cracking noise during operation or when operation stops.	Cracking sound due to temperature changes of parts
Odor	Discharged air is smelled during operation.	Indoor odor components, cigarette odor and cosmetic odor accumulated in the air conditioner and its air is discharged. Unit inside is dusty. Consult your dealer.
Dewdrop	Dewdrop gets accumulated near air discharge during operation	Indoor moisture is cooled by cool wind and accumulated by dewdrop.
Fog	Fog occurs during operation in cooling mode. (Places where large amounts of oil mist exist at restaurants.)	• Cleaning is necessary because unit inside (heat exchanger) is dirty. Consult your dealer as technical engineering is required. • During defrost operation
Fan is rotating for a while even though operation stops.		• Fan rotating makes operation smoothly. • Fan may sometimes rotate because of drying heat exchanger due to settings.
Wind-direction changes while operating. Wind-direction setting cannot be made. Wind-direction cannot be changed.		• When air discharge temperature is low or during defrost operation, horizontal wind flow is made automatically. • Flap position is occasionally set up individually.
When wind-direction is changed, flap operates several times and stops at designated position.		When wind-direction is changed, flap operates after searching for standard position.
Dust		Dust accumulation inside indoor unit is discharged.
Poor cooling or heating performance		The indoor unit is initially designed to control the indoor temperature detected by the built-in room sensor inside the indoor unit. Due to indoor unit installation position, however, the built-in sensor may occasionally sense temperature improperly; for example, temperature difference between the ceiling and floor, lighting apparatus, electric fan, windows or waist-high partition walls, etc. In this case, the unit does not operate properly at the desired temperature. You may change the use of the temperature sensor inside the indoor unit to that of the remote controller. Then the desired room temperature can be controlled properly. For details, consult your dealer.

Check Before Requiring Services

Symptom	Cause	Remedy
Air conditioner does not run at all although power is turned on.	Power failure or after power failure	Press ON/OFF operation button on remote controller again.
	Operation button is turned off.	• Switch on power if breaker is turned off. • If breaker has been tripped, consult your dealer without turning it on.
	Fuse blow out.	If blown out, consult your dealer.
Poor cooling or heating performance	Air intake or air discharge port of indoor and outdoor units is clogged with dust or obstacles.	Remove dust or obstruction.
	Fan speed switch is set to “Low”.	Change to “Medium” or “High”.
	Improper temperature settings	See “● Tips for Energy Saving” on this page.
	Room is exposed to direct sunlight in cooling mode.	
	Doors and /or windows are open.	
	Air filter is clogged.	See “● Care and Cleaning” on page 1-11-1-4-12.
	Too much heat sources in room in cooling mode.	Use minimum heat sources and in a short time.
	Too many people in room in cooling mode.	Reduce temperature settings or change to “Medium” or “High”.

If your air conditioner still does not work properly although you checked the points as described above, first stop the operation and turn off the power switch.
Then contact your dealer and report the serial number and symptom.
Never repair your air conditioner by yourself since it is very dangerous for you to do so.

● Tips for Energy Saving

Avoid

- **Do not block the air intake and outlet of the unit. If either is obstructed, the unit will not work well, and may be damaged.**
- Do not let direct sunlight into the room. Use sunshades, blinds or curtains. If the walls and ceiling of the room are warmed by the sun, it will take longer to cool the room.

Do

- Always try to keep the air filter clean. (See “● Care and Cleaning” on page 1-11-1-4-12.) A clogged filter will impair the performance of the unit.
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

NOTE

Should the power fail while the unit is running

If the power supply for this unit is temporarily cut off, the unit will automatically resume operation once power is restored using the same settings before the power was interrupted.

■ IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

■ SERVICING

CAUTION

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, (2) to (6) shall be completed prior to conducting work on the system.

(1) Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

(2) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(3) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(4) If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

(5) No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

(6) Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

(7) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.
- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

(8) Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
Initial safety checks shall include:
- That capacitors are discharged. This shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer’s specifications.

  NOTE:
  The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

■ REMOVAL AND EVACUATION

CAUTION

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:
  • Remove refrigerant.
  • Purge the circuit with inert gas.
  • Evacuate.
  • Purge again with inert gas.
  • Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be "flushed" with Oxygen Free Nitrogen (OFN) to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with Oxygen Free Nitrogen (OFN) and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final Oxygen Free Nitrogen (OFN) charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

■ CHARGING PROCEDURES

NOTE

See "1-11-2. Installation Instructions of Outdoor Unit".

■ DECOMMISSIONING

CAUTION

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
  • Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
  • All personal protective equipment is available and being used correctly.
  • The recovery process is supervised at all times by a competent person.
  • Recovery equipment and cylinders conform to the appropriate standards.
  d) Pump down refrigerant system, if possible.
  e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
  f) Make sure that cylinder is situated on the scales before recovery takes place.
  g) Start the recovery machine and operate in accordance with manufacturer's instructions.
  h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
  i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
  j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
  k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging / discharging.

■ RECOVERY

NOTE

See "11. Recovery" on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6 and 1-11-2-4-6.

1-11-1-5. 4-Way Cassette 60 × 60 Type S-25PY3E, S-36PY3E, S-50PY3E, S-60PY3E

■ SELECTING THE INSTALLATION SITE

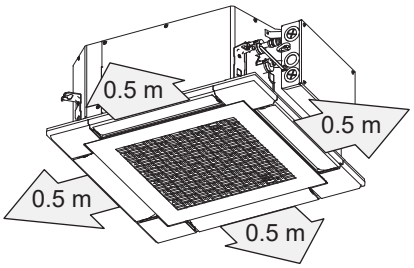
AVOID:

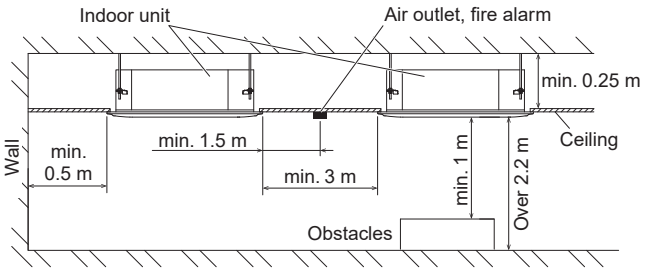
- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- locations near heat sources which may affect the performance of the unit.
- locations where external air may enter the room directly. This may cause “condensation” on the air discharge ports, causing them to spray or drip water.
- locations where the remote controller will be splashed with water or affected by dampness or humidity.
- installing the remote controller behind curtains or furniture.
- locations where high-frequency emissions are generated.

DO:

- select an appropriate position from which every corner of the room can be uniformly cooled.
- select a location where the ceiling is strong enough to support the weight of the unit.
- select a location where tubing and drain pipe have the shortest run to the outdoor unit.
- allow room for operation and maintenance as well as unrestricted airflow around the unit.
- the limitation of the tubing length between the indoor and the outdoor units should be referred to the Installation Instructions of the outdoor unit.
- allow room for mounting the remote controller about 1 m off the floor, in an area that is not in direct sunlight or in the flow of cool air from the indoor unit.
- If the inside of the ceiling is high temperature and high humidity, apply the polyethylene foam or other materials of minimum thickness of 10 mm or more to the unit.

4-Way Cassette 60 × 60 Type





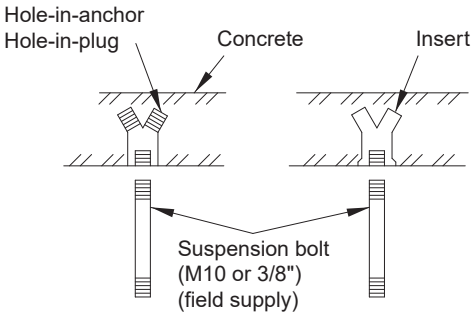
■HOW TO INSTALL THE INDOOR UNIT

●Preparation for Suspending

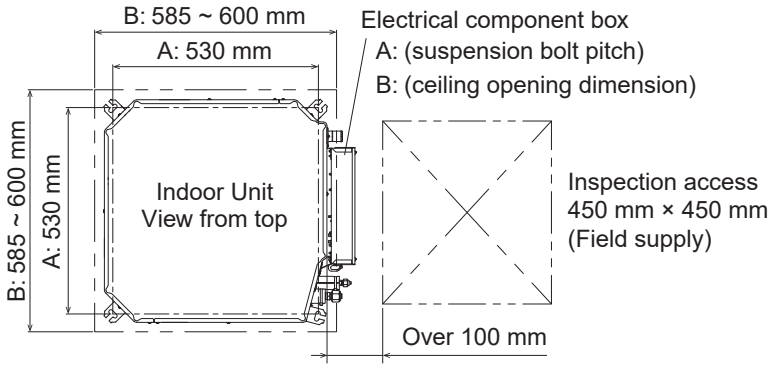
This unit uses a drain pump. Use a carpenter's level to check that the unit is level.

●Suspending the Indoor Unit

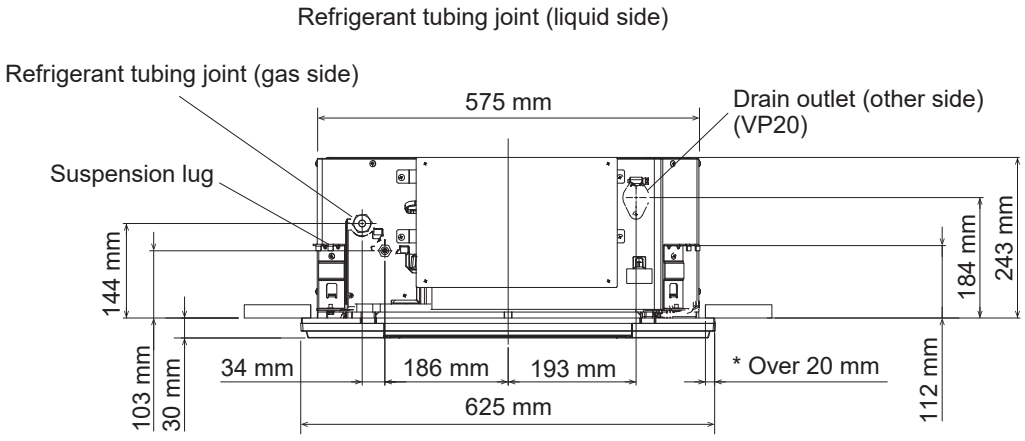
(1) Fix the suspension bolts securely in the ceiling using the method shown in the diagrams, by attaching them to the ceiling support structure, or by any other method that ensures that the unit will be securely and safely suspended.



(2) Follow the diagram to make the holes in the ceiling.
Install the inspection opening on the control box side where maintenance and inspection of the control box and drain pump are easy.



(3) Determine the pitch of the suspension bolts using the supplied full-scale installation diagram (printed on container box).
The diagram show the relationship between the positions of the suspension fitting, unit, and panel.
Use the nut (field supply) and washer (supplied) for upper and lower position of the suspension lug.



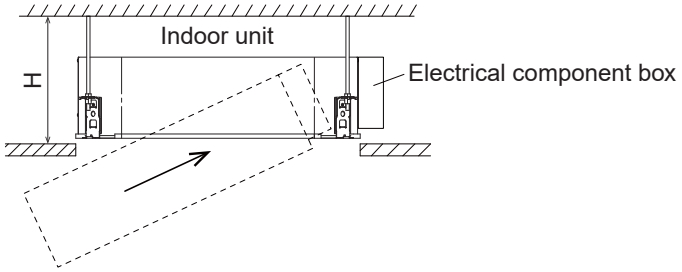
* The overlapping portion between the ceiling and panel for cassette should be kept over 20 mm.

● Placing the Unit Inside the Ceiling

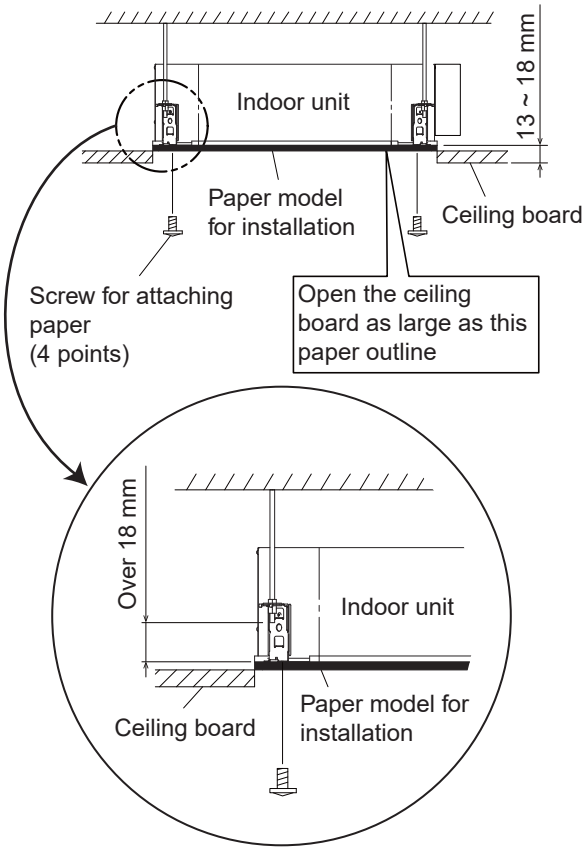
This air conditioner is designed to be installed on the system ceiling. Care must be taken before installation so that the maintenance or relocation can be done instantly. This unit is equipped with the drain pump. Check a tape measure or carpenter's level. Before installing the panel for cassette, complete the work of drain pipe and refrigerant tube installation.

(1) When placing the unit inside the ceiling, determine the pitch of the suspension bolts using the supplied full-scale installation diagram.
Tubing and wiring must be laid inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the tubing and wiring into position for connection to the unit before placing the unit inside the ceiling.

(2) The length of suspension bolts must be appropriate for a distance between the bottom of the bolt and the bottom of the unit of more than 18 mm.
If there is a ceiling opening, install the indoor unit's electrical component box side first in the opening portion.

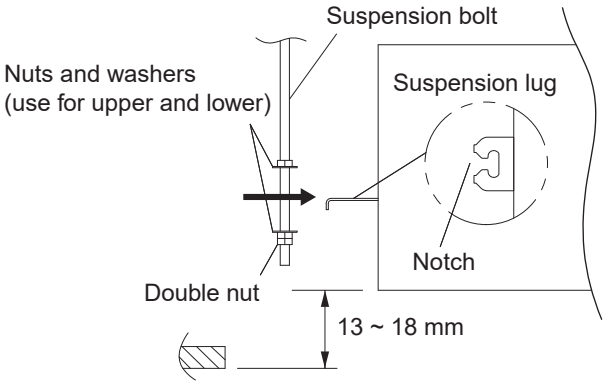


H :
If the roof space is 285 mm or more in height, it is possible to remove the grid system ceiling panel and place the unit inside the system ceiling.
If the roof space is more than 250 mm and less than 285 mm in height, first remove the grid system ceiling panel and T-Bar supporting the system ceiling temporarily, and then place the unit inside the ceiling.



Full-scale installation diagram
(printed on top of container box)

(3) Thread the 3 hexagonal nuts and 2 washers onto each of the 4 suspension bolts. Use 1 nut and 1 washer for the upper side, and 2 nuts and 1 washer for the lower side, so that the unit will not fall off the suspension lugs.



(4) Adjust so that the distance between the unit and the ceiling bottom is 13 to 18 mm.
Tighten the nuts on the upper side and lower side of the suspension lug.

(5) Remove the protective polyethylene used to protect the fan parts during transport.

(6) Check with a tape measure or carpenter's level.

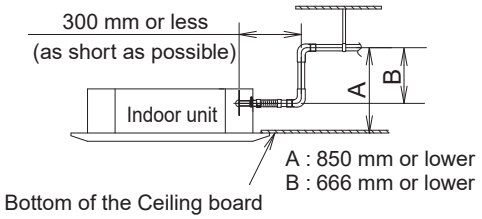
● Installing the Drain Pipe

Before Performing the Installation Drain Piping

(1) Limitations of Raising the Drain Pipe Connection

CAUTION

- The drain pipe can be raised to a maximum height of 850 mm from the bottom of the ceiling.
  Do not attempt to raise it higher than 850 mm.
  Doing so will result in water leakage.

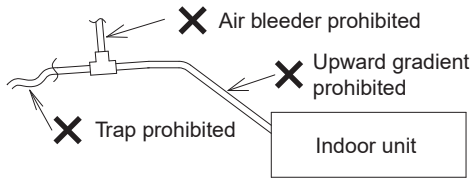


* Length of supplied drain pipe = 250 mm

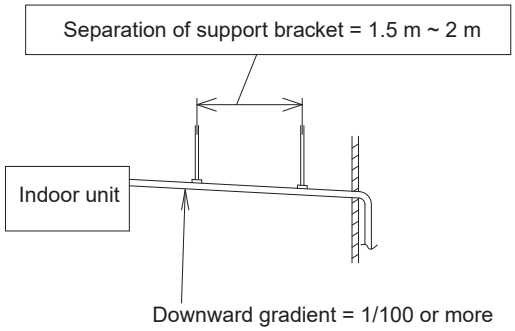
(2) Limitations of Drain Pipe Connection

CAUTION

- Do not install the drain pipe with an upward gradient from the drain port connection. This will cause the drain water to flow backward and leak when the unit is not operating.
- Do not install an air bleeder as this may cause water to spray from the drain pipe outlet.
- Do not provide U-trap or bell-shaped trap in the middle of the drain pipe. Doing so will cause abnormal sound.



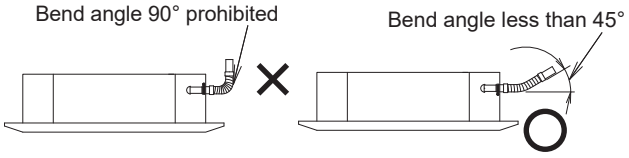
- Make sure the drain pipe has a downward gradient (1/100 or more; downward from drain port connection).



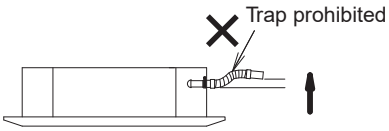
(3) Limitations of Drain Hose Connection

CAUTION

- Do not bend the supplied drain hose 90° or more.
  Bend it less than 45°.



- Do not make a trap in the middle of the supplied drain hose. Doing so will cause abnormal sound.



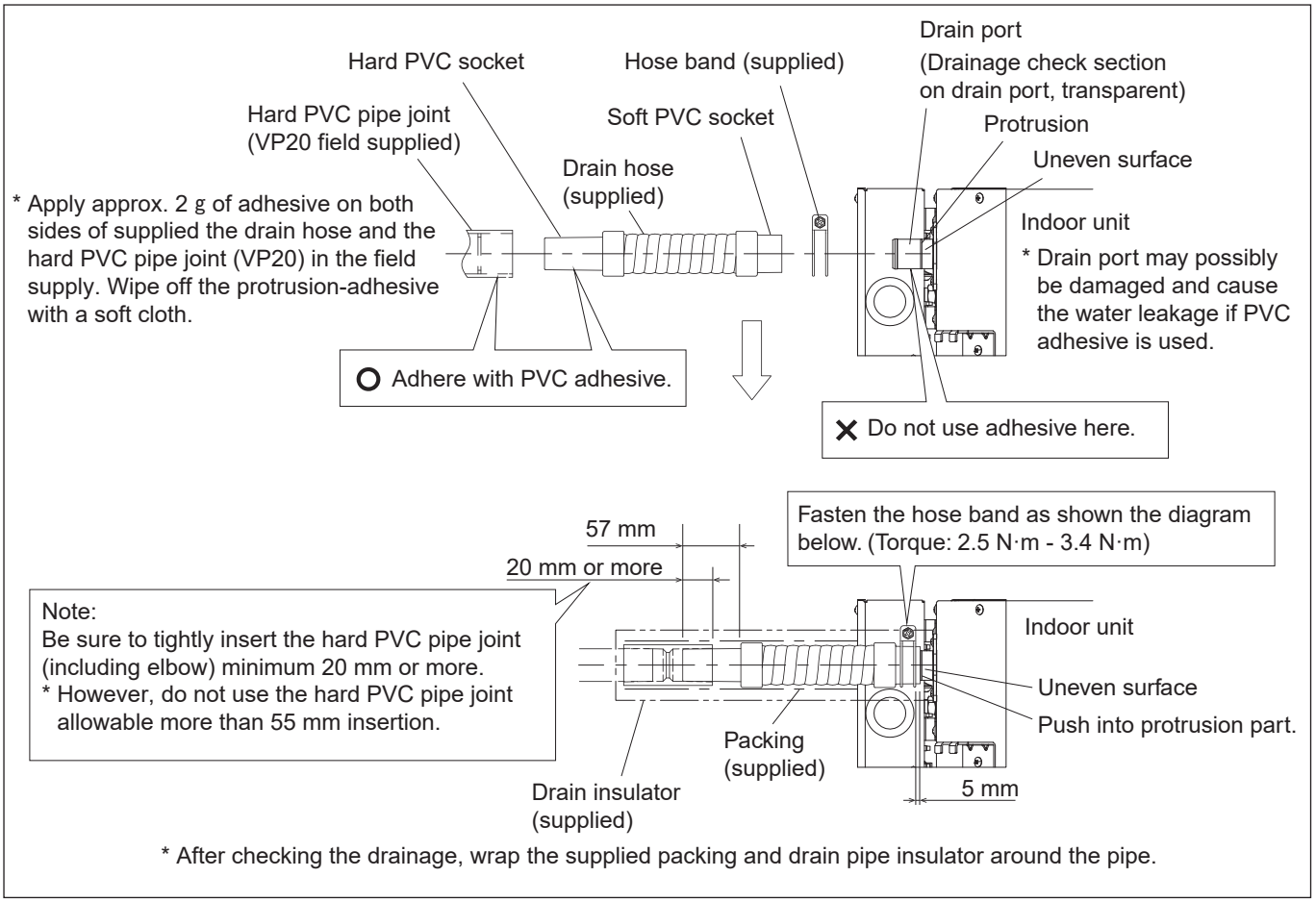
Installing the Drain Pipe

CAUTION

- Do not apply force to the drain port when connecting the drain pipe. Install and fix it near the indoor unit as close as possible.
- Do not use adhesive when connecting the drain port pipe and the drain hose.

(1) How to Install the Drain Pipe

1) First insert the supplied hose band into the drain port pipe. Then make sure the head of the screw is facing toward a technical engineer when placing the screw of the hose band at an upward angle.
2) Insert the soft PVC socket of the supplied drain hose to the drain port pipe. Do not use adhesive when connecting the drain hose to the drain port pipe. Insert it until the tip of the drain hose contacts the uneven surface of the drain port pipe.
3) Move the hose band so that the center position of the hose band can be placed approx. 30 mm away from the external plate of the indoor unit. See diagram below.
4) Screw the drain hose tightly facing the screw of the hose band upward. (Torque: 2.5 N·m -3.4 N·m) (If the screw is tightened beneath the drain hose, the troubles will be generated.)
5) Apply approx. 2 g of adhesive on both sides of the drain hose without connection of the hard PVC socket and the hard PVC pipe joint (VP20) in the field supply.
6) Connect the drain hose and the hard PVC pipe joint so that the adhesive area of both sides can be overlapped. Wipe off the protrusion-adhesive with a soft cloth.



* After checking the drainage, wrap the supplied packing and drain pipe insulator around the pipe.

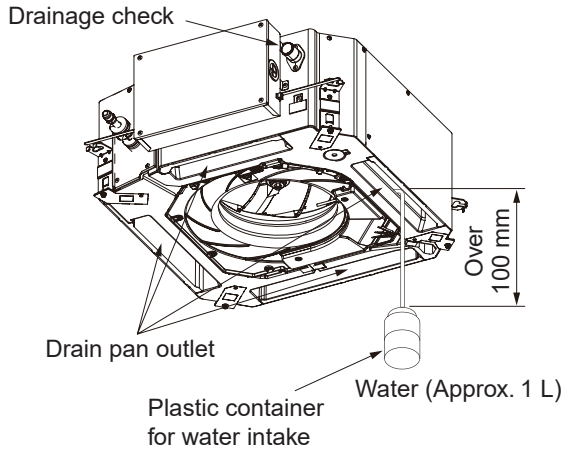
Checking the Drainage

CAUTION **Be careful since the fan will start when you short the pin on the indoor unit control PCB.**

After wiring (see "1-10. Electrical Wiring".) and drain piping are completed, use the following procedure to check that the water will drain smoothly. For this, prepare a bucket and wiping cloth to catch and wipe up spilled water.

(1) Connect power to the power terminal board (L/1, N/2 terminals) inside the electrical component box.

(2) Slowly pour about 1 L of water into the drain pan to check drainage.



(3) Short the check pin (CHK) (6P:1-4) on the indoor unit control PCB and operate the drain pump. Check the water flow through the transparent drain pipe and see if there is any leakage.
* If the check pin (CHK) (6P:1-4) is shorted, the fan starts rotating at high speed and could cause injury.

(4) When the check of drainage is complete, open the check pin (CHK) (6P:1-4) and remount the tube cover.

(5) Checkpoint after installation
After installation of indoor and outdoor units, panels and electrical wiring, check section "■ CHECKLIST AFTER INSTALLATION WORK" on page 1-11-1-5-21.

●Important Note for Wiring 4-Way Cassette 60 × 60 Type

(1) The power supply inlet is located at the lower area of the refrigerant tubing side.
The electrical component box is located at the refrigerant tubing side.

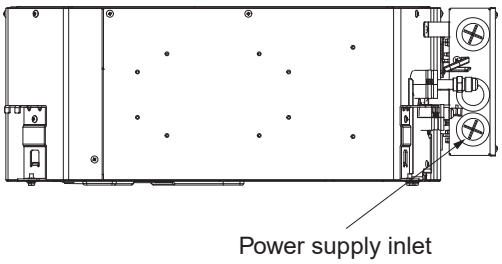
(2) Before installing the panel for cassette, be sure to carry out the wiring connection.

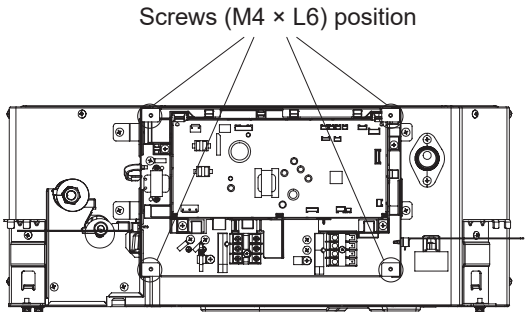
(3) Remove the lid located on the electrical component box by unscrewing the screws (M4 × L6) (×4).

(4) Lead the wires from the power supply inlet to the unit. Be sure to lead the wires through the power supply inlet. Make sure that no wire is caught between the indoor unit and panel for cassette. Otherwise, the unit may cause a fire.

(5) Connect the wires into the terminals through the power supply inlet for the electrical component box.
Fix the wires with a clamping clip.

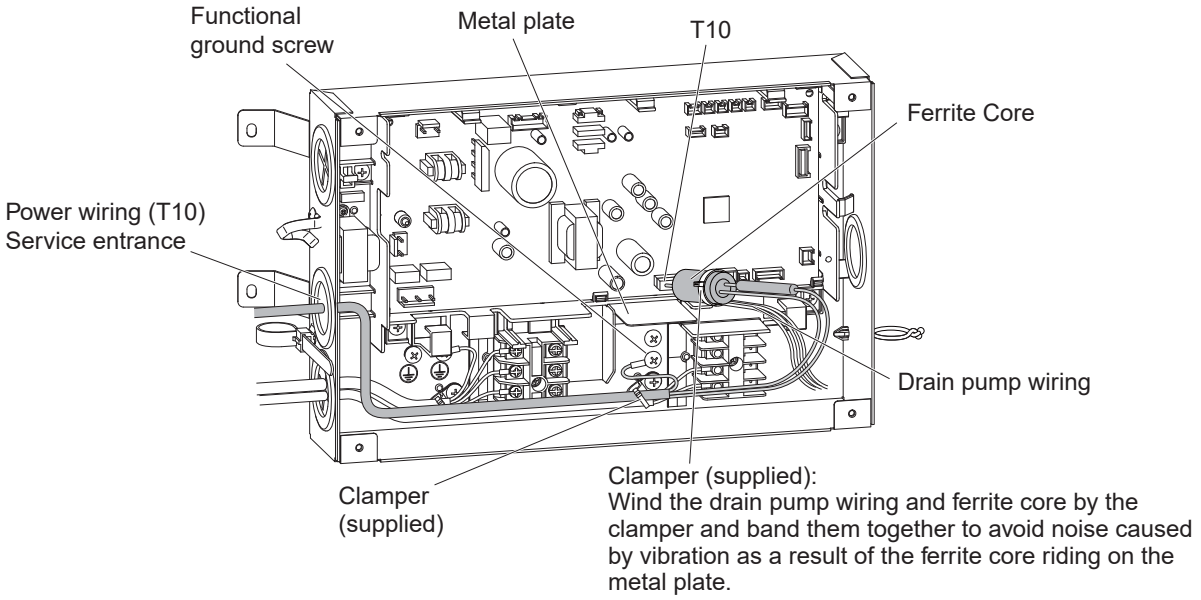
(6) Reinstall the lid of the electrical component box in its original position with paying attention not to have the wires caught in the lid.
See “1-10. Electrical Wiring”.





< When connecting to optional parts >

● Connecting to Schedule Timer or Seri-Para I/O Unit
Connect the wire from Schedule Timer or Seri-Para I/O Unit to the indoor unit control PCB T10 (CN061, Yellow) and functional ground screw.



■ HOW TO PROCESS TUBING

Must ensure mechanical connections be accessible for maintenance purposes.

● Connecting the Refrigerant Tubing

NOTE

When connecting flare at indoor side, make sure that the flare connection is used only once. If torqued up and released, the flare must be remade. Once the flare connection was torqued up correctly and leak test was made, thoroughly clean and dry the surface to remove oil, dirt and grease by following instructions of silicone sealant. Apply neutral cure & ammoniafree silicone sealant that is non-corrosive to copper & brass to the external of the flared connection to prevent the ingress of moisture on both the gas & liquid sides. (Moisture may cause freezing and premature failure of the connection.)

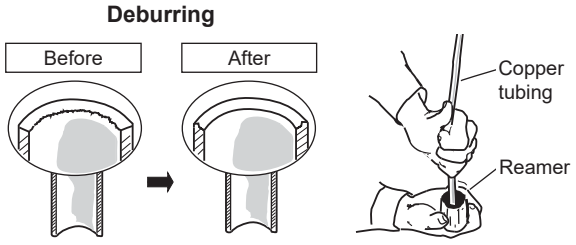
Use of the Flaring Method

Many of conventional split system air conditioners employ the flaring method to connect refrigerant tubes that run between indoor and outdoor units. In this method, the copper tubes are flared at each end and connected with flare nuts.

Flaring Procedure with a Flare Tool

(1) Cut the copper tube to the required length with a tube cutter. It is recommended to cut approx. 30 – 50 cm longer than the tubing length you estimate.

(2) Remove burrs at each end of the copper tubing with a tube reamer or a similar tool. This process is important and should be done carefully to make a good flare. Be sure to keep any contaminants (moisture, dirt, metal filings, etc.) from entering the tubing.

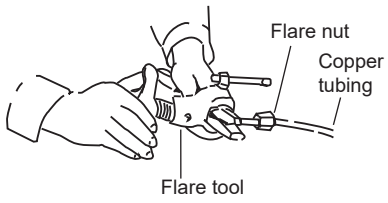


NOTE

When reaming, hold the tube end downward and be sure that no copper scraps fall into the tube.

(3) Remove the flare nut from the unit and be sure to mount it on the copper tube.

(4) Make a flare at the end of the copper tube with a flare tool.



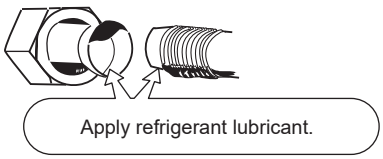
NOTE

When flared joints are reused, the flare part shall be re-fabricated.
A good flare should have the following characteristics:
- inside surface is glossy and smooth
- edge is smooth
- tapered sides are of uniform length

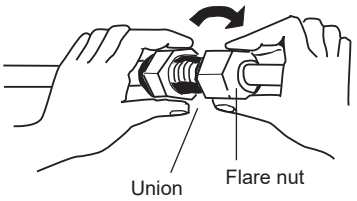
Caution Before Connecting Tubes Tightly

(1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.

(2) Be sure to apply refrigerant lubricant (ether oil) to the inside of the flare nut before making piping connections. This is effective for reducing gas leaks.



(3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match.



- Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.

● Connecting Tubing Between Indoor and Outdoor Units

(1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing

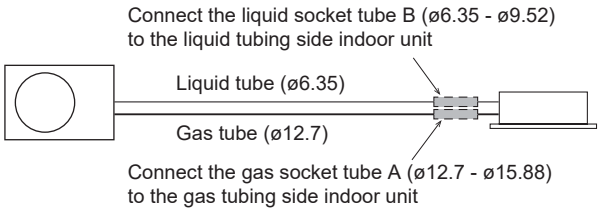
Indoor Unit Tubing Connection Unit : mm

Indoor unit type	S-25, 36, 50PY3E	S-60PY3E
Gas tube	ø12.7	ø15.88 (ø12.7)
Liquid tube	ø6.35	ø9.52 (ø6.35)

Different-diameter-tube joint for the indoor unit tubing connection part is supplied with S-60PY3E.
The size of parenthesis indicates the connection tube diameter when using the different-diameter- tube joint.

How to use different-diameter-tube joint (supplied)

1) When using with single connection
   - Outdoor PZ3 and PZH3 series (Type 60)



The following examples show the multiple connections.

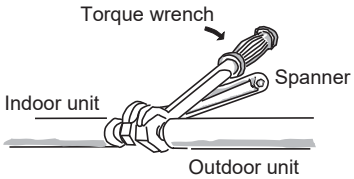
- Connectable or disconnectable units vary depending on a series of outdoor units.
  See “7. TWIN TYPE CONNECTIONS” on page 1-11-2-2-24 and “7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS” on page 1-11-2-4-23 as well.
- Two, three or four indoor units can be operated simultaneously with a single remote controller.
  Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin, triple and double twin system.
  No address setting is necessary.

Applicable “TWIN” “TRIPLE” and “DOUBLE TWIN” combination table

	Outdoor unit	Type 71 (Only PZH series)	Type 100	Type 125	Type 140
TWIN	combination	U-71 → S-36 S-36	U-100 → S-50 S-50	U-125 → S-60 S-60	—
TRIPLE	combination	—	U-100 → S-36 S-36 S-36	—	U-140 → S-50 S-50 S-50
DOUBLE TWIN	combination	—	—	U-125 → S-36 S-36 S-36 S-36	—

(2) To fasten the flare nuts, apply specified torque.

- When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use two spanners. When tightening the flare nuts, use a torque wrench. If the flare nuts are over-tightened, the flare may be damaged, which could result in refrigerant leakage and cause injury or asphyxiation to room occupants.



- For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R410A, R32 (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table below.

Tube diameter	Tightening torque (approximate)	Tube thickness
ø6.35 (1/4")	14 – 18 N · m {140 – 180 kgf · cm}	0.8 mm
ø9.52 (3/8")	34 – 42 N · m {340 – 420 kgf · cm}	0.8 mm
ø12.7 (1/2")	49 – 55 N · m {490 – 550 kgf · cm}	0.8 mm
ø15.88 (5/8")	68 – 82 N · m {680 – 820 kgf · cm}	1.0 mm

  Because the pressure is approximately 1.6 times higher than conventional refrigerant R22 pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.
- In order to prevent damage to the flare caused by over-tightening of the flare nuts, use the table above as a guide when tightening.
- When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 200 mm.

● Insulating the Refrigerant Tubing

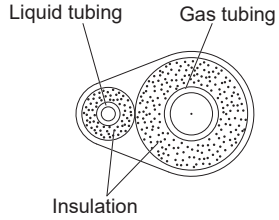
Tubing Insulation

Must ensure that pipe-work shall be protected from physical damage.

- Thermal insulation must be applied to all units tubing, including distribution joint (field supply).
  * For gas tubing, the insulation material must be heat resistant to 120°C or above. For other tubing, it must be heat resistant to 80°C or above.

  Insulation material thickness must be 10 mm or greater.
  If the conditions inside the ceiling exceed DB 30°C and RH 70%, increase the thickness of the gas tubing insulation material by 1 step.

Two tubes arranged together



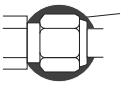
CAUTION

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

Additional Precautions For R32 Models.

Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.

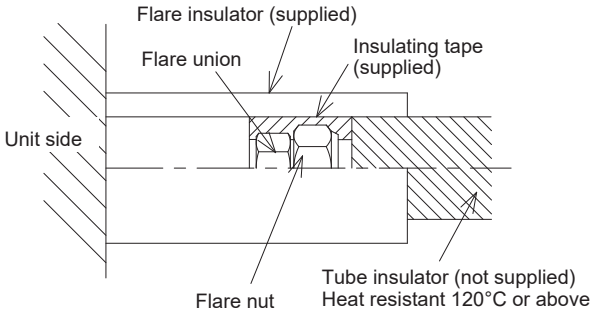


Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

Taping the flare nuts

Wind the insulating tape around the flare nuts at the gas/liquid tube connections. Then cover up the tubing connections with the flare insulator.



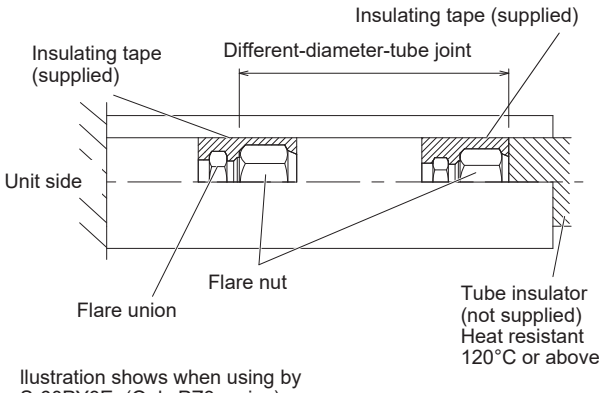


Illustration shows when using by S-60PY3E. (Only PZ3 series)

Insulation material

The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.

NOTE

If noise bothers you from the area between indoor and outdoor units' connection pipes, it is effective to wind the soundproofing materials (field supply) to reduce noise.

CAUTION

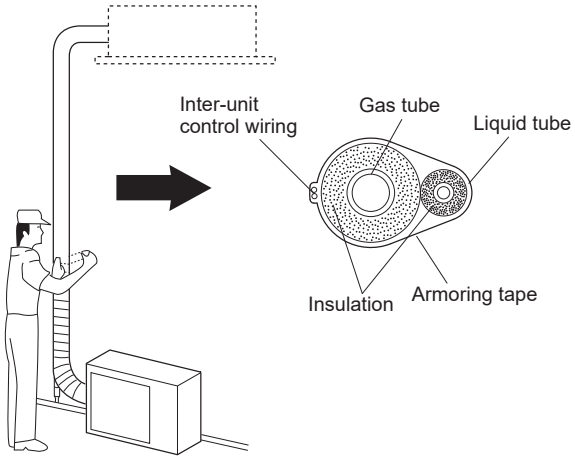
After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack. Never grasp the drain or refrigerant connecting outlets when moving the unit.

● **Taping the Tubes**

(1) At this time, the refrigerant tubes (and electrical wiring if local codes permit) should be taped together with armoring tape in 1 bundle. To prevent condensation from overflowing the drain pan, keep the drain hose separate from the refrigerant tubing.

(2) Wrap the armoring tape from the bottom of the outdoor unit to the top of the tubing where it enters the wall. As you wrap the tubing, overlap half of each previous tape turn.

(3) Clamp the tubing bundle to the wall, using 1 clamp approx. each meter.

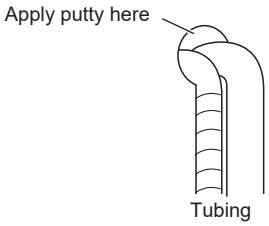


NOTE

Do not wind the armoring tape too tightly since this will decrease the heat insulation effect. Also ensure that the condensation drain hose splits away from the bundle and drips clear of the unit and the tubing.

● **Finishing the Installation**

After finishing insulating and taping over the tubing, use sealing putty to seal off the hole in the wall to prevent rain and draft from entering.



■ **HOW TO INSTALL THE TIMER REMOTE CONTROLLER OR HIGH-SPEC WIRED REMOTE CONTROLLER (OPTIONAL PART)**

NOTE

See Section “2. TEST RUN”.

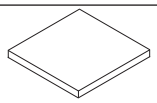
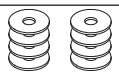
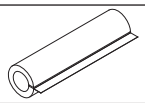
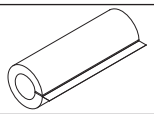
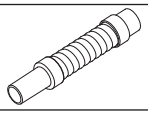
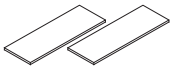
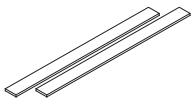
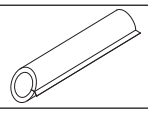
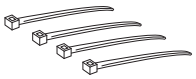
■GENERAL

This booklet briefly outlines where and how to install the air conditioning system. Please read over the entire set of instructions for the indoor and outdoor units and make sure all accessory parts listed are with the system before beginning. The installation of pipe-work shall be kept to a minimum.

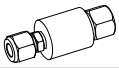
WARNING	This symbol shows that this equipment uses a flammable refrigerant. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.
CAUTION	This symbol shows type of flammable refrigerant contained in the system.
CAUTION	This symbol shows that the Operating Instructions should be read carefully.
CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the Technical Manual.
CAUTION	This symbol shows that there is information included in the Operating Instructions and/or Installation Instructions.

●Accessories Supplied with Unit

(4-Way Cassette 60 × 60)

Part Name	Figure	Q'ty	Remarks
Full-scale installation diagram		1	Printed on container box
Washer		8	For suspension bolts
Screw		4	For full-scale installation diagram
Flare insulator		1	For liquid tube
Flare insulator		1	For gas tube
Drain hose		1	
Hose band		1	For securing drain hose
Packing		2	70 × 220 (mm)
Packing		2	30 × 500 (mm)
Drain insulator		1	
Clamper		4	For electrical wiring
Operating Instructions		1	
Installation Instructions		1	

As for S-60PY3E, the following accessories are additionally provided.

Part Name	Figure	Q'ty	Remarks
Different-diameter-tube joint		1	Gas socket tube A : ø15.88 → ø12.7
		1	Liquid socket tube B : ø9.52 → ø6.35
Insulating tape		2	For gas and liquid tube flare nuts

- Use M10 for suspension bolts.
- Field supply for suspension bolts and nuts.

●Type of Copper Tube and Insulation Material

If you wish to purchase these materials separately from a local source, you will need:

1. Deoxidized annealed copper tube for refrigerant tubing.
2. Foamed polyethylene insulation for copper tubes as required to precise length of tubing.
   Wall thickness of the insulation should be not less than 8 mm.
3. Use insulated copper wire for field wiring. Wire size varies with the total length of wiring.
   See "1-10. Electrical Wiring" for details.

CAUTION

Check local electrical codes and regulations before obtaining wire. Also, check any specified instructions or limitations.

●Additional Materials Required for Installation

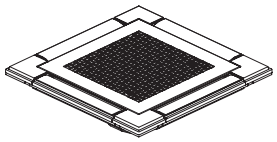
1. Refrigeration (armored) tape
2. Insulated staples or clamps for connecting wire (See your local codes.)
3. Putty
4. Refrigeration tubing lubricant
5. Clamps or saddles to secure refrigerant tubing
6. Scale for weighing

■HOW TO INSTALL THE PANEL FOR CASSETTE

4-Way Cassette 60 × 60 Type
CZ-KPY4

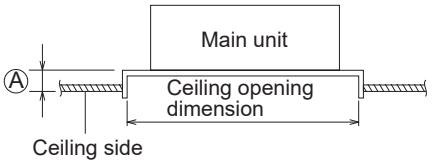
Accessories

Panel for cassette ×1



●Preparation for Panel for Cassette Installation

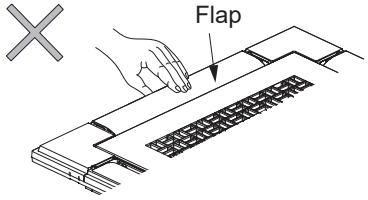
(1) Checking the unit position
1) Check that the ceiling hole is within this range: 585 mm × 585 mm to 595 mm × 595 mm
2) Confirm that the position of the indoor unit and the ceiling as shown in the diagram. If the positions of the ceiling surface and unit do not match, air leakage, water leakage, flap operation failure, or other problems may occur.



Ⓐ: Be sure to necessarily make a space within the range of 13 mm ~ 18 mm.
If not within this range, malfunction or other trouble may occur.

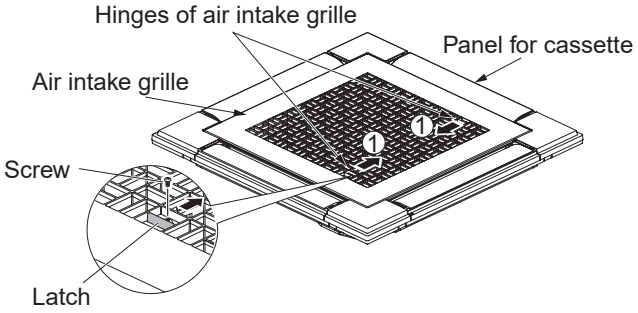
⚠ CAUTION

- **Never place the panel face-down. Either hang it vertically or place it on top of a projecting object. Placing it face-down will damage the surface.**
- **Do not touch the flap or apply force to it. (This may cause flap malfunction.)**

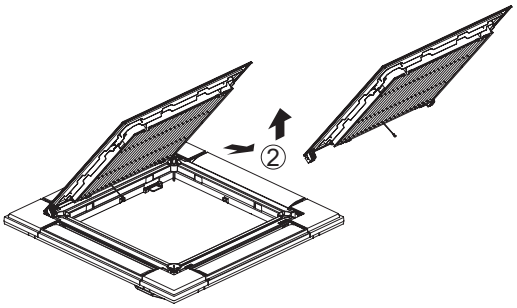


● How to Install the Panel for Cassette

(1) Removing the air intake grille
1) Remove the 2 screws on the latch of the air intake grille. (Reattach the air intake grille after installation of the panel for cassette.)
2) Slide the air intake grille catches in the direction shown by the arrows①to open the grille.

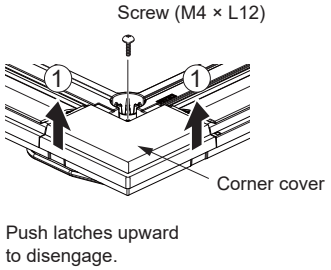


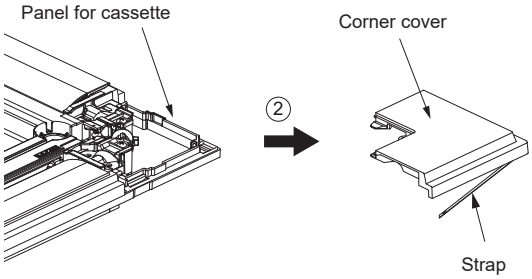
3) With the air intake grille opened, remove the grille hinge from the panel for cassette by sliding it in the direction shown by the arrow②. (Reattach the air intake grille after installation of the panel for cassette.)



(2) Removing the corner cover

Push the latches on the corner cover in the direction of the arrow①and remove them by sliding in the direction of the arrow②.





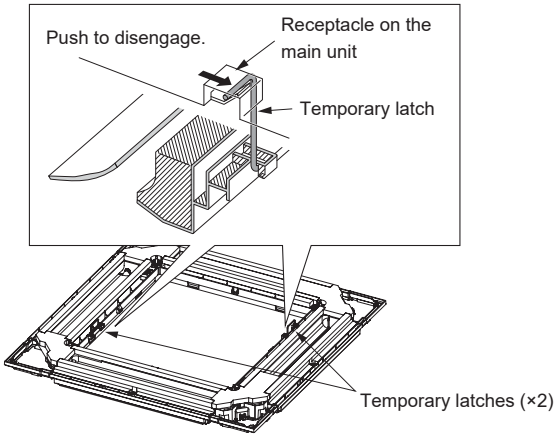
(3) Installing the panel for cassette

The power must be turned ON in order to change the flap angle. (Do not attempt to move the flap by hand. Doing so may damage the flap.)

1) Hang the temporary latches on the inside of the panel for cassette to the receptacle on the unit to temporarily attach the panel for cassette in place.

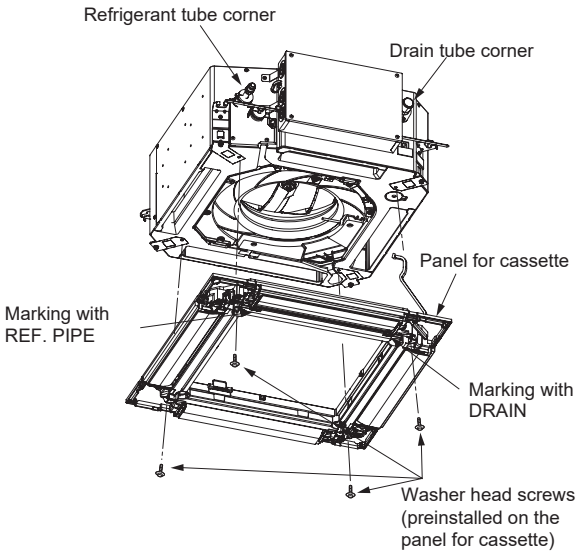
• The panel for cassette must be installed in the correct direction relative to the unit. Align the REF. PIPE and DRAIN marks on the panel for cassette corner with the correct positions on the unit.

• When removing the panel for cassette, push the temporary latches outward while holding the panel for cassette.



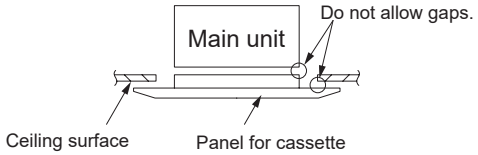
2) Align the panel installation holes and the unit screw holes.

3) Tighten the provided washer head screws at the 4 panel installation locations so that the panel is attached tightly to the unit.

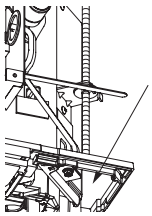


4) Check that the panel is attached tightly to the ceiling.

• At this time, make sure that there are no gaps between the unit and the panel for cassette, or between the panel for cassette and the ceiling surface.



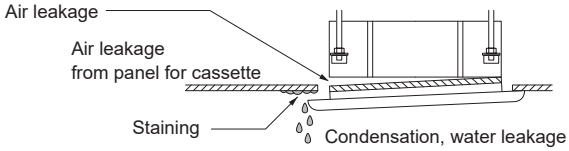
• If there is a gap between the panel and the ceiling, leave the panel for cassette attached and make fine adjustments to the installation height of the unit to eliminate the gap with the ceiling.



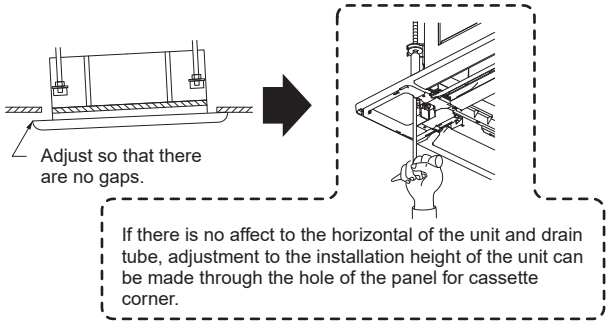
Make fine adjustment by a wrench or other tools to the installation height of the unit to eliminate the gap with the ceiling through the holes of the corner cover.

⚠ CAUTION

• **If the screws are not sufficiently tightened, trouble such as that shown in the figure below may occur. Be sure to tighten the screws securely.**



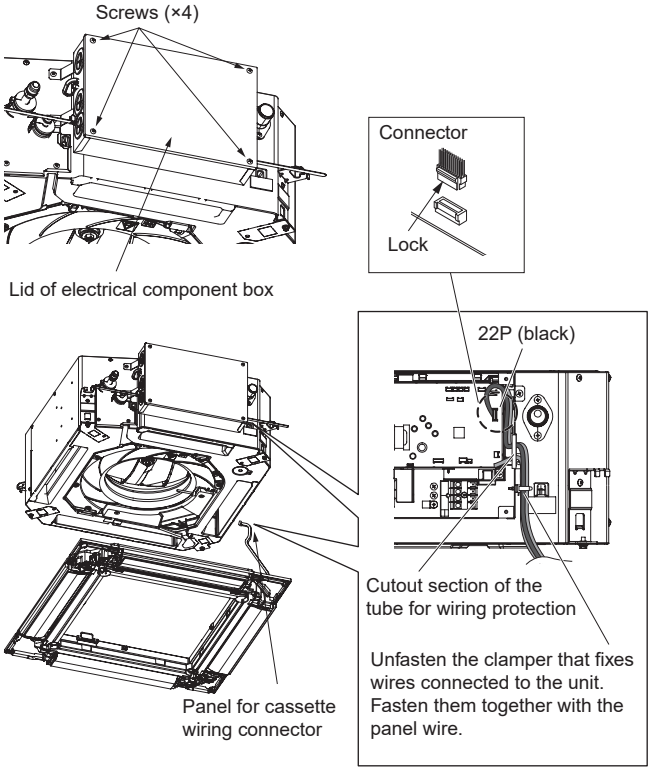
• **If a gap remains between the ceiling surface and the panel for cassette even after the screws are tightened,adjust the height of the unit again.**



(4) Wiring the Panel for Cassette

1) Open the cover of the electrical component box for the indoor unit control PCB.
2) Connect the 22P connector (white) from the panel for cassette to the connector on the indoor unit control PCB in the unit electrical component box. In this case, expose the cutout section of the tube for the wiring protection to the outside from the electrical component box and fix it with the clamper attached to the electrical component box.

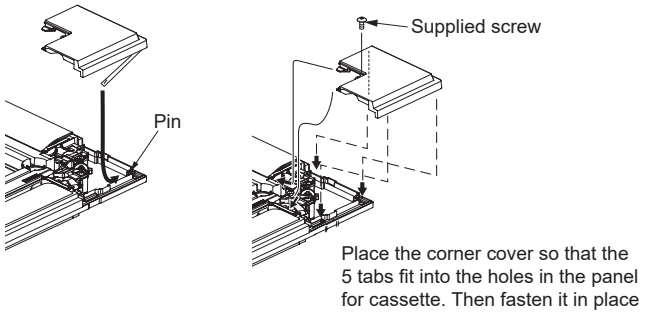
- Insert connector lock facing PCB edge until it is locked in place. (If not connected completely, the Auto Flap will not operate and “P09” is displayed on the remote controller.)
- Check that the wiring connector is not caught between the electrical component box and the cover.
- Check that the wiring connector is not caught between the unit and the panel for cassette.



(5) How to Attach the Corner & Air Intake Grille

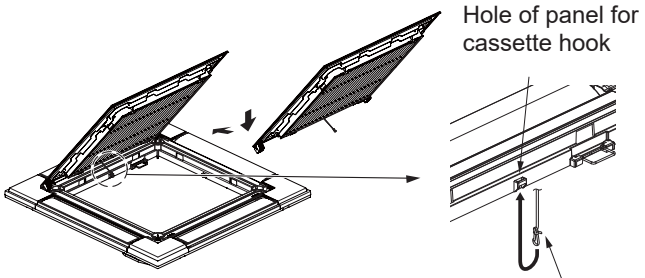
A. Attaching the corner cover

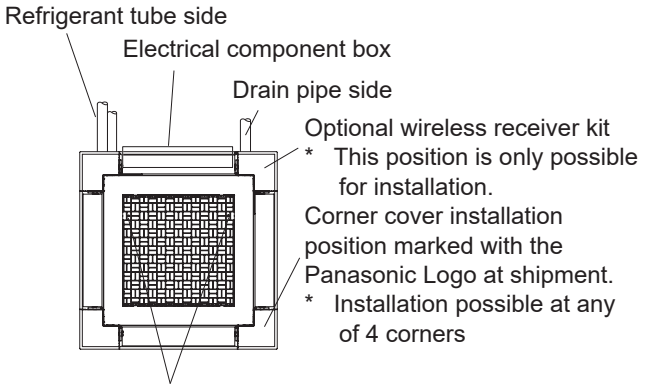
1) Check that the safety strap from the corner cover is fastened to the panel for cassette pin, as shown in the figure.
2) Use the supplied screws to attach the corner cover to the panel for cassette.

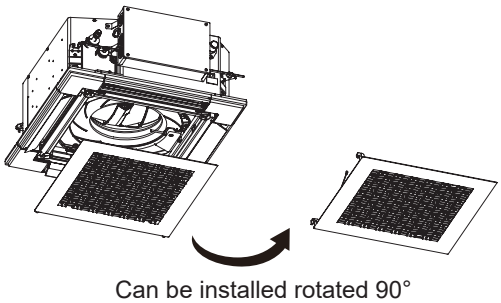


B. Attaching the air intake grille

- To install the air intake grille, follow the steps for “Removing the grille” in the reverse order. By rotating the air intake grille, it is possible to attach the grille onto the panel for cassette from any of 4 directions. Coordinate the directions of the air intake grilles when installing multiple units, and change the directions according to customer’s requests.
- When attaching the air intake grille, be careful that the flap lead wire does not become caught.
- Be sure to attach the safety strap that prevents the air intake grille from dropping off to the panel for cassette unit as shown in the figure below.
- With this panel for cassette, the directions of the air intake grille lattices when installing multiple units, and the position of the label showing the company name on the corner panel, can be changed according to customer’s requests, as shown in the figure below. However, the wireless signal receiver can only be installed at the refrigerant-tubing corner of the ceiling unit.



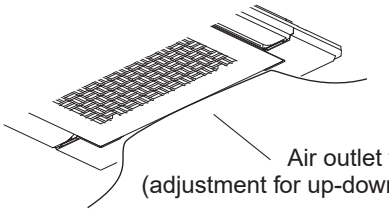




● **Others**

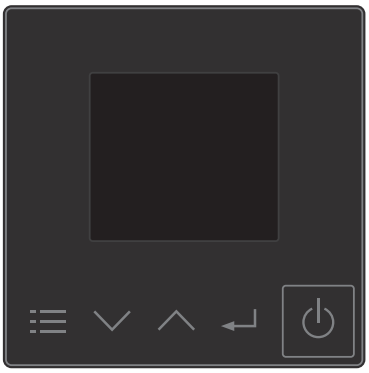
1. Checking After Installation
   1) Check that there are no gaps between the unit and the panel for cassette, or between the panel for cassette and the ceiling surface.
      * Gaps may cause water leakage and condensation.
   2) Check that the wiring is securely connected.
      * If it is not securely connected, the auto flap will not operate. (“P09” is displayed on the remote controller.) In addition, the water leakage and condensation may occur.
2. Operating the Wireless Remote Controller
   For details of installation, refer to the Installation Instructions attached to the optional Wireless Remote Controller.

3. Setting the Flap Separately
   1) The 4-air outlet flap can be adjusted separately during operation. When not adjusted separately, all flaps operate in the same manner.



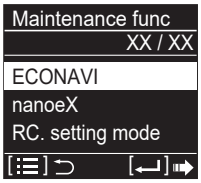
<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.

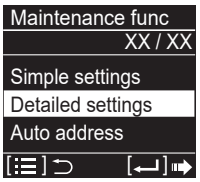


CZ-RTC6 series

① Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

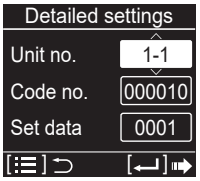


② Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.



The “Detailed settings” screen appears on the LCD display.

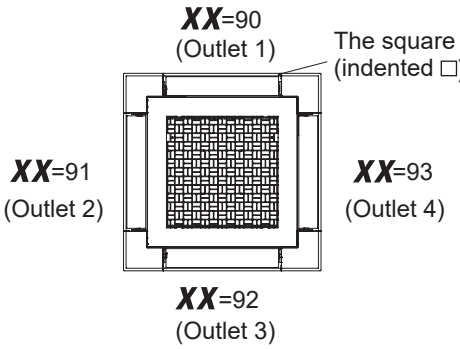
③ Select the “Unit no.” by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step④.



If the ☰ button is pressed, proceed to Step⑥.

④ Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

Change the “Code no.” one digit at a time so that it becomes [0000XX] along with the following procedures.



Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

Change the value by pressing the ∨ or ∧ button.
After changing all digits, press the ↵ button and proceed to Step⑤.

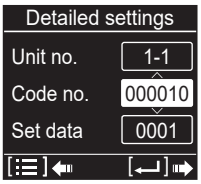


Fig. A

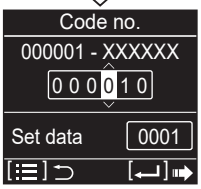


Fig. B

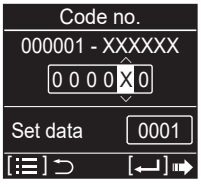
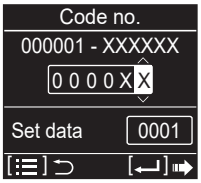


Fig. C



⑤ Select one of the Setting Data “YYYY” by pressing the ▽ or △ button.

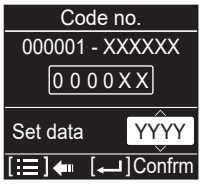
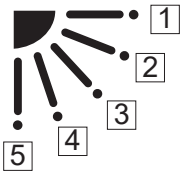


Fig. D

* Setting data “ YYYY”

Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

Flap position

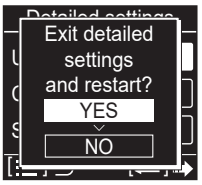


NOTE

The flap swings during the operation under “Setting the Flap Separately”.
At this time, the unselected flaps are moved to the position 1.

After selecting “Set data” , press the ↵ button. (If setting continuously, follow the procedures from **Fig. A**.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step③).

⑥ If the ☰ button is pressed under the display Step③, the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button.

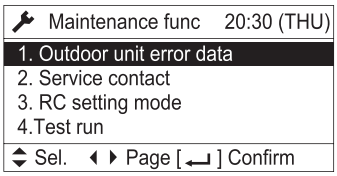


1

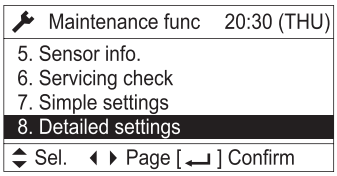
<Procedure of CZ-RTC5B>

Stop the system before performing these steps.

① Keep pressing the ⮌ , ↵ and ► buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

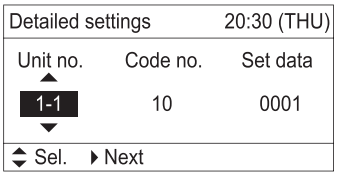


② Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◄ or ► button.
Select “8. Detailed settings” on the LCD display and press the ↵ button.

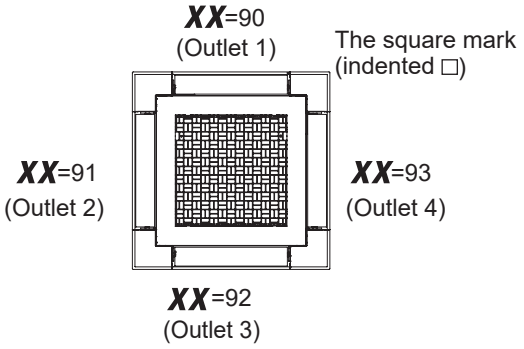


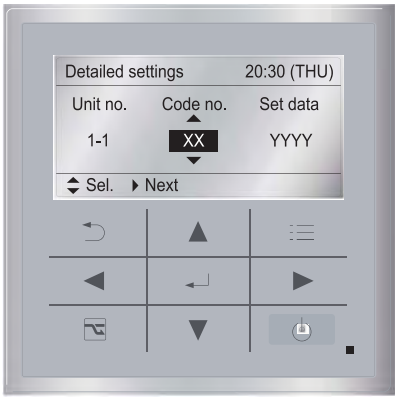
The “Detailed settings” screen appears on the LCD display.

③ Select the “Unit no.” by pressing the ▼ or ▲ button for changes.



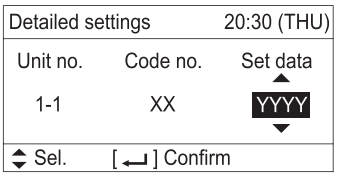
④ Select the “Code no.” by pressing ◄ or ► button.
Change the “Code no.” to “**XX**” by pressing the ▼ or ▲ button (or keeping it pressed).



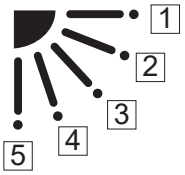


CZ-RTC5B

⑤ Select the “Set data” by pressing the ◄ or ► button.
Select one of the Setting Data “YYYY” by pressing the ▼ or ▲ button.
Then press the ↵ button.



Flap position

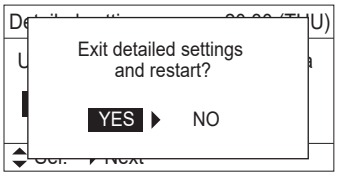


* Setting data “***YYYY***”

Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

NOTE
The flap swings during the operation under “Setting the Flap Separately”.
At this time, the unselected flaps are moved to the position 1.

⑥ Press the ⮌ button.
The “Exit detailed settings and restart?” (Detailed setting-end) screen appears on the LCD display.
Select “YES” and press the ↵ button.



If you wish to change the selected indoor unit, follow the step③.

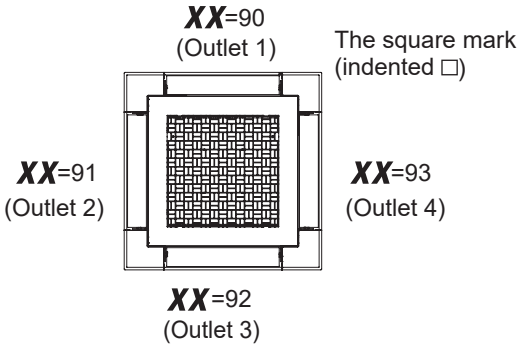
<Procedure of CZ-RTC4>

Stop the system before performing these steps.

① Press and hold the , SET and CANCEL buttons simultaneously for 4 seconds or longer.

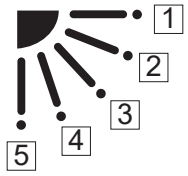
② If group control is in effect, press the UNIT button to set. At this time, the fan at the indoor unit begins and select the address (unit no.) of the indoor unit operating.

③ Designate the item code "***XX***" by adjusting the Temperature Setting ▽/△ buttons.



④ Press the timer time DAY/ /TIMER buttons to select the desired setting data.

Flap position



* Setting data "***YYYY***"

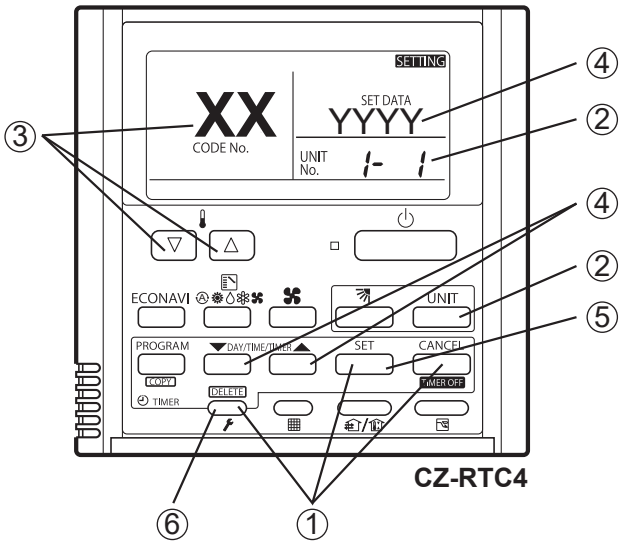
Setting data	Flap position during operation
0000	Without separate setting
0001	Swing
0002	Move to position 1 and stay
0003	Move to position 2 and stay
0004	Move to position 3 and stay
0005	Move to position 4 and stay
0006	Move to position 5 and stay

NOTE

The flap swings during the operation under "Setting the Flap Separately".
At this time, the unselected flaps are moved to the position 1.

⑤ Press the SET button.
(The display stops blinking and remains lit, and setting is completed.)
If you wish to change the selected indoor unit, follow the step ②.

⑥ Press the button to return to normal remote controller display.



CZ-RTC4

■ CHECKLIST AFTER INSTALLATION WORK

Work List	No.	Content	Check ☑	Possibility of Failure & Checkpoint
Installation	1	Are the indoor units installed following the content on page 1-11-1-5-1 "■ SELECTING THE INSTALLATION SITE"?	☐	There is a possibility of light injure or loss of property.
Tubing & Wiring	2	In the case of multiple installation: Is there a wrong tubing connection with another system?	☐	The unit is inoperated or the refrigerant flows into the inoperative unit and the leakage is expected. Check if there is a wrong tubing or wiring connection with another system.
	3	In the case of multiple installation: Is there a wrong wiring connection with another system?	☐	
	4	Is the earth leakage circuit breaker (all-pole switching function provided) installed?	☐	Power failure or short circuit may cause electric shock or fire. Check installation work and ground wire work.
	5	Is there any wrong installation of optional parts or wrong wiring?	☐	
	6	Was the ground wire work performed?	☐	
	7	Are there any wrong power supply wiring, wrong connection wire, wrong signal wire or loose screw?	☐	
	8	Is the thickness of wire in accordance with rule?	☐	
	9	Is the power-supply voltage equal to the nameplate of the unit?	☐	
	10	Was the check of the airtight test, flared tube fitting and gas leakage on the welded portion performed?	☐	If the gas leakage occurs, the unit quality not only becomes inferior but affects environment. Repair it as quickly as possible.
Drain Check	11	Has the adhesive been applied to the drain connecting portion (resin portion) of the indoor unit?	☐	The resin portion cracks after a few months and it may cause water drain.
	12	Is there water leakage?	☐	Since there is a possibility of water drain, repair the drain pipe if the drain failure or water drain occurs.
	13	Indoor unit drain pipe has a downward gradient (1/100 or more) by rule. Is the drain water flowing smoothly?	☐	
Heat Insulation	14	Was the heat insulation work at a suitable location including the flared tube fitting (refrigerant tube & drain pipe) performed properly?	☐	The quality of unit not only becomes inferior but there is a possibility of the water drain. So, perform the heat insulation work properly.
Test Run	15	Did the abnormal sound occur?	☐	Check if there is a fan contact or distortion of the indoor unit.
	16	Did the cool and warm airflow discharge from the indoor unit?	☐	Check if the unit does not operate or there is a wrong tubing or wiring connection with another system.

■ APPENDIX

● Care and Cleaning

WARNING

- **For safety, be sure to turn the air conditioner off and also to disconnect the power before cleaning.**
- **Do not pour water on the indoor unit to clean it. This will damage the internal components and cause an electric shock hazard.**

Air intake and outlet side (Indoor unit)

Clean the air intake and outlet side of the indoor unit with a vacuum cleaner brush, or wipe them with a clean, soft cloth. If these parts are stained, use a clean cloth moistened with water. When cleaning the air outlet side, be careful not to force the vanes out of place.

CAUTION

- **Never use solvents or harsh chemicals when cleaning the indoor unit. Do not wipe plastic parts using very hot water.**
- **Some metal edges and the fins are sharp and may cause injury if handled improperly; be especially careful when you clean these parts.**
- **The internal coil and other components of outdoor unit must be cleaned regularly. Consult your dealer or service center.**

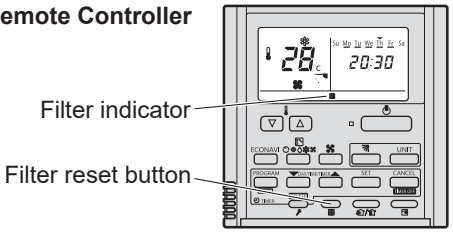
Air filter

The air filter collects dust and other particles from the air and should be cleaned at regular intervals or when the filter indication (▦) on the display of the remote controller (wired type) shows that the filter needs cleaning. If the filter gets blocked, the efficiency of the air conditioner drops greatly.

Type	Y3
Period	6 months

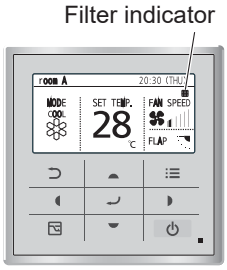
- **After Cleaning**
  1. After the air filter is cleaned, reinstall it in its original position. Be sure to reinstall in reverse order.
  2. [In the case of Timer Remote Controller]
     Press the Filter reset button.
     The ▦ (Filter) indicator on the display goes out.

Timer Remote Controller



[In the case of High-spec Wired Remote Controller and Wired Remote Controller]
Refer to the Operating Instructions attached to the optional High-spec Wired Remote Controller or optional Wired Remote Controller.

High-spec Wired Remote Controller



Wired Remote Controller



NOTE

The frequency with which the filter should be cleaned depends on the environment in which the unit is used.
Clean the filter frequently for best performance in the area of dusty or oil spots regardless of filter status.

<How to clean the filter>

1. Remove the air filter from the air intake grille.
2. Use a vacuum cleaner to remove light dust. If there is sticky dust on the filter, wash the filter in lukewarm, soapy water, rinse it in clean water, and dry it.

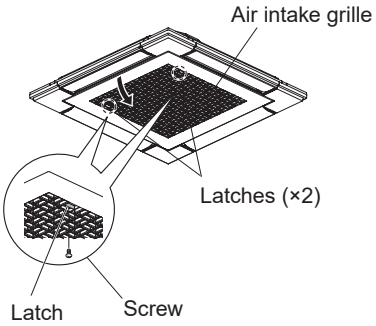
<How to remove the filter>
4-Way Cassette 60 × 60 Type :

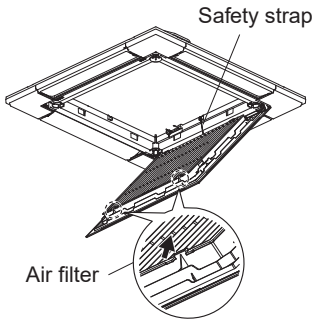
1. Use a screwdriver to remove the bolt screw on each side for the two latches. (Be sure to reattach the two bolt screws after cleaning.)
2. Slide the latches of the air intake grille in the direction of the inside to open the grille.
3. The air intake grille opens downward.

CAUTION

- **When cleaning the air filter, never remove the safety strap. If it is necessary to remove it for servicing and maintenance inside, be sure to reinstall the safety strap securely (hook on the grille side) after the work.**
- **When the filter has been removed, rotating parts (such as the fan), electrically charged areas, etc. will be exposed in the unit's opening. Bear in mind the dangers that these parts and areas pose, and proceed with the work carefully.**

4. Push the bottom of the air filter up and pull it toward you. The air filter will be disengaged.





CAUTION

- **Certain metal edges and the condenser fins are sharp and may cause injury if handled improperly; special care should be taken when you clean these parts.**
- **Periodically check the outdoor unit to see if the air outlet or air intake is clogged with dirt or soot.**
- **The internal coil and other components must also be cleaned periodically. Consult your dealer or service center.**

Care: After a prolonged idle period

Check the indoor and outdoor unit air intakes and outlets for blockage; if there is a blockage, remove it.

Care: Before a prolonged idle period

- Operate the fan for half a day to dry out the inside.
- Disconnect the power supply and also turn off the circuit breaker.
- Clean the air filter and replace it in its original position.
- Outdoor unit internal components must be checked and cleaned periodically. Contact your local dealer for this service.

● Troubleshooting

If your air conditioner does not work properly, first check the following points before requesting service. If it still does not work properly, contact your dealer or a service center.

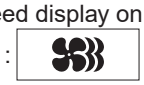
Indoor unit

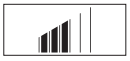
Symptom		Cause
Noise	Sound like streaming water during operation or after operation	• Sound of refrigerant liquid flowing inside unit • Sound of drainage water through drain pipe
	Cracking noise during operation or when operation stops.	Cracking sound due to temperature changes of parts
Odor	Discharged air is smelled during operation.	Indoor odor components, cigarette odor and cosmetic odor accumulated in the air conditioner and its air is discharged. Unit inside is dusty. Consult your dealer.
Dewdrop	Dewdrop gets accumulated near air discharge during operation	Indoor moisture is cooled by cool wind and accumulated by dewdrop.
Fog	Fog occurs during operation in cooling mode. (Places where large amounts of oil mist exist at restaurants.)	• Cleaning is necessary because unit inside (heat exchanger) is dirty. Consult your dealer as technical engineering is required. • During defrost operation
Fan is rotating for a while even though operation stops.		• Fan rotating makes operation smoothly. • Fan may sometimes rotate because of drying heat exchanger due to settings. • Fan may sometimes rotate in internal cleaning operation mode for a while.
Wind-direction changes while operating. Wind-direction setting cannot be made. Wind-direction cannot be changed.		• When air discharge temperature is low or during defrost operation, horizontal wind flow is made automatically. • Flap position is occasionally set up individually.
When wind-direction is changed, flap operates several times and stops at designated position.		When wind-direction is changed, flap operates after searching for standard position.
Dust		Dust accumulation inside indoor unit is discharged.
Poor cooling or heating performance		The indoor unit is initially designed to control the indoor temperature detected by the built-in room sensor inside the indoor unit. Due to indoor unit installation position, however, the built-in sensor may occasionally sense temperature improperly; for example, temperature difference between the ceiling and floor, lighting apparatus, electric fan, windows or waist-high partition walls, etc. In this case, the unit does not operate properly at the desired temperature. You may change the use of the temperature sensor inside the indoor unit to that of the remote controller. Then the desired room temperature can be controlled properly. For details, consult your dealer.

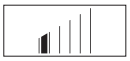
Check Before Requiring Services

Symptom	Cause	Remedy
Air conditioner does not run at all although power is turned on.	Power failure or after power failure	Press ON/OFF operation button on remote controller again.
	Operation button is turned off.	• Switch on power if breaker is turned off. • If breaker has been tripped, consult your dealer without turning it on.
	Fuse blow out.	If blown out, consult your dealer.
Poor cooling or heating performance	Air intake or air discharge port of indoor and outdoor units is clogged with dust or obstacles.	Remove dust or obstruction.
	Fan speed switch is set to “Low”.*	Change to “Medium” or “High”.*
	Improper temperature settings	See “●Tips for Energy Saving”.
	Room is exposed to direct sunlight in cooling mode.	
	Doors and /or windows are open.	
	Air filter is clogged.	See “●Care and Cleaning” on page 1-11-1-5-22.
	Too much heat sources in room in cooling mode.	Use minimum heat sources and in a short time.
	Too many people in room in cooling mode.	Reduce temperature settings or change to “Medium” or “High”.*

* Fan speed display on the remote controller

High :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Medium :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

Low :  (CZ-RTC4),  (CZ-RTC5B, CZ-RTC6*)

If your air conditioner still does not work properly although you checked the points as described above, first stop the operation and turn off the power switch. Then contact your dealer and report the serial number and symptom. Never repair your air conditioner by yourself since it is very dangerous for you to do so.

●Tips for Energy Saving
Avoid

- **Do not block the air intake and outlet of the unit. If either is obstructed, the unit will not work well, and may be damaged.**
- Do not let direct sunlight into the room. Use sunshades, blinds or curtains. If the walls and ceiling of the room are warmed by the sun, it will take longer to cool the room.

Do

- Always try to keep the air filter clean. (See “●Care and Cleaning” on page 1-11-1-5-22.) A clogged filter will impair the performance of the unit.
- To prevent conditioned air from escaping, keep windows, doors and any other openings closed.

NOTE

Should the power fail while the unit is running
If the power supply for this unit is temporarily cut off, the unit will automatically resume operation once power is restored using the same settings before the power was interrupted.

■ IMPORTANT INFORMATION REGARDING THE REFRIGERANT USED

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

■ SERVICING

CAUTION

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, (2) to (6) shall be completed prior to conducting work on the system.

(1) Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

(2) All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

(3) The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

(4) If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

(5) No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

(6) Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

(7) Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.
- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

(8) Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
Initial safety checks shall include:
- That capacitors are discharged. This shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity of earth bonding.

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer’s specifications.

  NOTE:
  The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

■ REMOVAL AND EVACUATION

CAUTION

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:
  - Remove refrigerant.
  - Purge the circuit with inert gas.
  - Evacuate.
  - Purge again with inert gas.
  - Open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be “flushed” with Oxygen Free Nitrogen (OFN) to render the unit safe.
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

■ CHARGING PROCEDURES

NOTE

See “1-11-2. Installation Instructions of Outdoor Unit”.

■ DECOMMISSIONING

CAUTION

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
    - Mechanical handling equipment is available, if required, for handling refrigerant cylinders.
    - All personal protective equipment is available and being used correctly.
    - The recovery process is supervised at all times by a competent person.
    - Recovery equipment and cylinders conform to the appropriate standards.

  d) Pump down refrigerant system, if possible.
  e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
  f) Make sure that cylinder is situated on the scales before recovery takes place.
  g) Start the recovery machine and operate in accordance with manufacturer’s instructions.
  h) Do not overfill cylinders. (No more than 80 % volume liquid charge).
  i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
  j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
  k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment charging / discharging.

■ RECOVERY

NOTE

See “11. Recovery” on page 1-11-2-1-7, 1-11-2-2-7, 1-11-2-3-6 and 1-11-2-4-6.

1-11-2. Outdoor Unit

1-11-2-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

⚠ WARNING	
❗	The appliance shall be stored, installed and operated in a well ventilated room with indoor floor area larger than A_{min} (m^2) [see Check of Density Limit] and without any continuously operating ignition source. Keep away from open flames, any operating gas appliances or any operating electric heater. Else, it may explode and cause injury or death.
❗	The mixing of different refrigerants within a system is prohibited. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety. Therefore, check beforehand. [The charging port thread diameter for R32 and R410A is 12.7 mm (1/2 inch).]
❗	Ensure that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)
❗	Operation, maintenance, repairing and refrigerant recovery should be carried out by trained and certified personnel in the use of flammable refrigerants and as recommended by the manufacturer. Any personnel conducting an operation, servicing or maintenance on a system or associated parts of the equipment should be trained and certified.
❗	Any part of refrigerating circuit (evaporators, air coolers, AHU, condensers or liquid receivers) or piping should not be located in the proximity of heat sources, open flames, operating gas appliance or an operating electric heater.
❗	The user/owner or their authorized representative shall regularly check the alarms, mechanical ventilation and detectors, at least once a year, where as required by national regulations, to ensure their correct functioning.
❗	A logbook shall be maintained. The results of these checks shall be recorded in the logbook.
❗	In case of ventilations in occupied spaces shall be checked to confirm no obstruction.
❗	Before a new refrigerating system is put into service, the person responsible for placing the system in operation should ensure that trained and certified operating personnel are instructed on the basis of the instruction manual about the construction, supervision, operation and maintenance of the refrigerating system, as well as the safety measures to be observed, and the properties and handling of the refrigerant used.
❗	The general requirement of trained and certified personnel are indicated as below: a) Knowledge of legislation, regulations and standards relating to flammable refrigerants; and, b) Detailed knowledge of and skills in handling flammable refrigerants, personal protective equipment, refrigerant leakage prevention, handling of cylinders, charging, leak detection, recovery and disposal; and, c) Able to understand and to apply in practice the requirements in the national legislation, regulations and Standards; and, d) Continuously undergo regular and further training to maintain this expertise.
❗	Air-conditioner piping in the occupied space shall be installed in such a way to protect against accidental damage in operation and service.
❗	Precautions shall be taken to avoid excessive vibration or pulsation to refrigerating piping.
❗	Ensure protection devices, refrigerating piping and fittings are well protected against adverse environmental effects (such as the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris).
❗	Expansion and contraction of long runs piping in refrigerating systems shall be designed and installed securely (mounted and guarded) to minimize the likelihood hydraulic shock damaging the system.
❗	Protect the refrigerating system from accidental rupture due to moving furniture or reconstruction activities.
❗	To ensure no leaking, field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure (>1.04MPa, max 4.15MPa). No leak shall be detected.

⚠ CAUTION

1. General
   - Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.
   - Must ensure that pipe-work shall be protected from physical damage.
   - Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.
   - Must ensure mechanical connections be accessible for maintenance purposes.
   - In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
   - When disposal of the product, do follow to the precautions in #11 and comply with national regulations.
   - In case of field charge, the effect on refrigerant charge caused by the different pipe length has to be quantified, measured and labelled.
     Always contact to local municipal offices for proper handling.
   - Ensure the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
   - Ensure refrigerant charge not to leak.
   - Wear appropriate protective equipment, including respiratory protection, as conditions warrant.
   - Keep all sources of ignition and hot metal surfaces away.

2. Servicing

2-1. Qualification of workers

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in theuse of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- The system is inspected, regularly supervised and maintained by a trained and certified service personnel who is employed by the person user or party responsible.

2-2. Checks to the area

- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised.
  For repair to the refrigerating system, the precautions in #2-3 to #2-7 must be followed before conducting work on the system.

2-3. Work procedure

- Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.

2-4. General work area

- All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.
- Avoid working in confined spaces. Always ensure away from source, at least 2 meter of safety distance, or zoning of free space area of at least 2 meter in radius.

2-5. Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.
- In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.
- In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.

2-6. Presence of fire extinguisher

- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.
- Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

2-7. No ignition sources

- No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. They must not be smoking when carrying out such work.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- “No Smoking” signs shall be displayed.

2-8. Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

2-9. Checks to the refrigerating equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer’s technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants.
  - The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
  - The ventilation machinery and outlets are operating adequately and are not obstructed.
  - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
  - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
  - Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.

2-10. Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- Initial safety checks shall include but not limit to:-
  - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
  - That there is no live electrical components and wiring are exposed while charging, recovering or purging the system.
  - That there is continuity of earth bonding.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer’s technical department for assistance.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- The owner of the equipment must be informed or reported so all parties are advised thereinafter.

3. Repairs to sealed components
- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE:
- The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment.
- Intrinsically safe components do not have to be isolated prior to working on them.

4. Repair to intrinsically safe components
- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

5. Cabling
- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

6. Detection of flammable refrigerants
- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.
- The following leak detection methods are deemed acceptable for all refrigerant systems.
  - No leaks shall be detected when using detection equipment with a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0, 25 times the maximum allowable pressure (>1.04MPa, max 4.15MPa) for example, a universal sniffer.
  - Electronic leak detectors may be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration.
    (Detection equipment shall be calibrated in a refrigerant-free area.)
  - Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
  - Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed.
  - Leak detection fluids are also suitable for use with most refrigerants, for example, bubble method and fluorescent method agents. The use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
  - If a leak is suspected, all naked flames shall be removed/extinguished.
  - If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. The precautions in #7 must be followed to remove the refrigerant.

7. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used.
  However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:

  • remove refrigerant -> • purge the circuit with inert gas -> • evacuate -> • purge with inert gas -> • open the circuit by cutting or brazing

- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be purged with OFN to render the appliance safe. (remark: OFN = Oxygen Free Nitrogen, type of inert gas)
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Purging shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and there is ventilation available.

8. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.
  - Ensure that contamination of different refrigerants does not occur when using charging equipment.
  - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
  - Cylinders shall be kept in an appropriate position according to the instructions.
  - Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
  - Label the system when charging is complete (if not already).
  - Extreme care shall be taken not to over fill the refrigerating system.
- Prior to recharging the system it shall be pressure tested with OFN (see #7).
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.
- Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

9. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.
- It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with instructions.

h) Do not over fill cylinders. (No more than 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion,dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

10. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

11. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

■ Check of Density Limit

● Outdoor

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

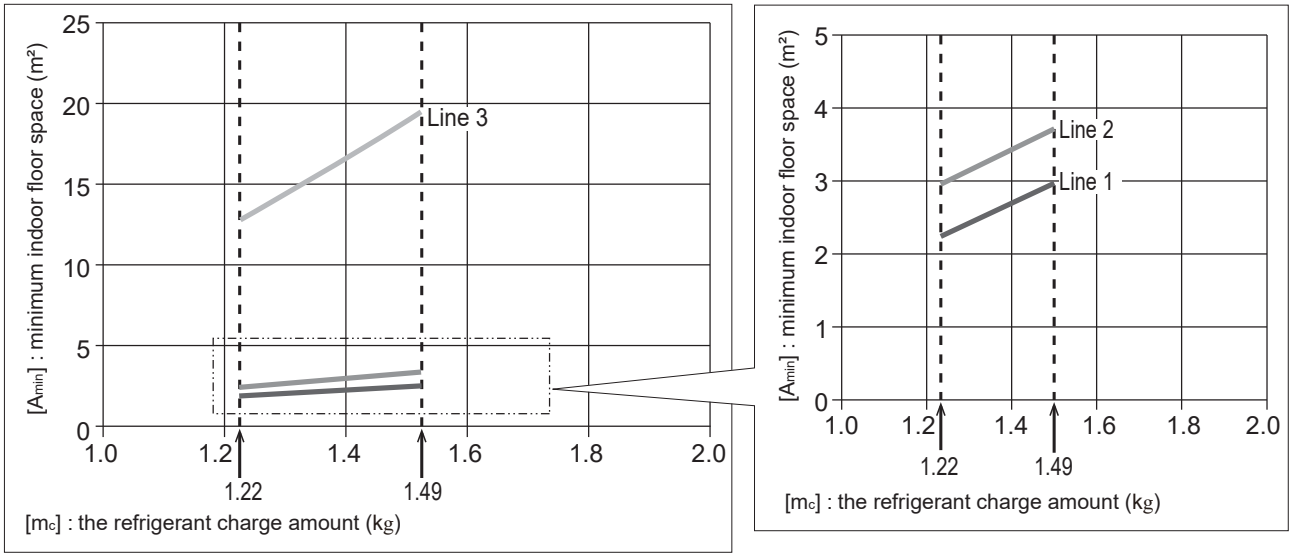


Table 1-11-2-1-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$m_c \leq 1.22$: Can be installed
$1.22 < m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-11-2-1-1 and below.
Fig. 1-11-2-1-1, Table 1-11-2-1-2.
Fig. 1-11-2-1-2, Table 1-11-2-1-4.
Fig. 1-11-2-1-3, Table 1-11-2-1-5.
Fig. 1-11-2-1-4, Table 1-11-2-1-6.
Fig. 1-11-2-1-5, Table 1-11-2-1-7.
$m_c > m_{max}$: Cannot be installed

	U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A
m_{max} (kg)	0.95	0.95	1.33	1.30	1.49

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-1-20.

(conditions : U-71PZ3E5A Total pipe length = 40 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 1.32 \text{ kg} + (0.017 \text{ kg} * (40 \text{ m} - 30 \text{ m})) = 1.49 \text{ kg}$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

● **Indoor**

4-Way Cassette Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

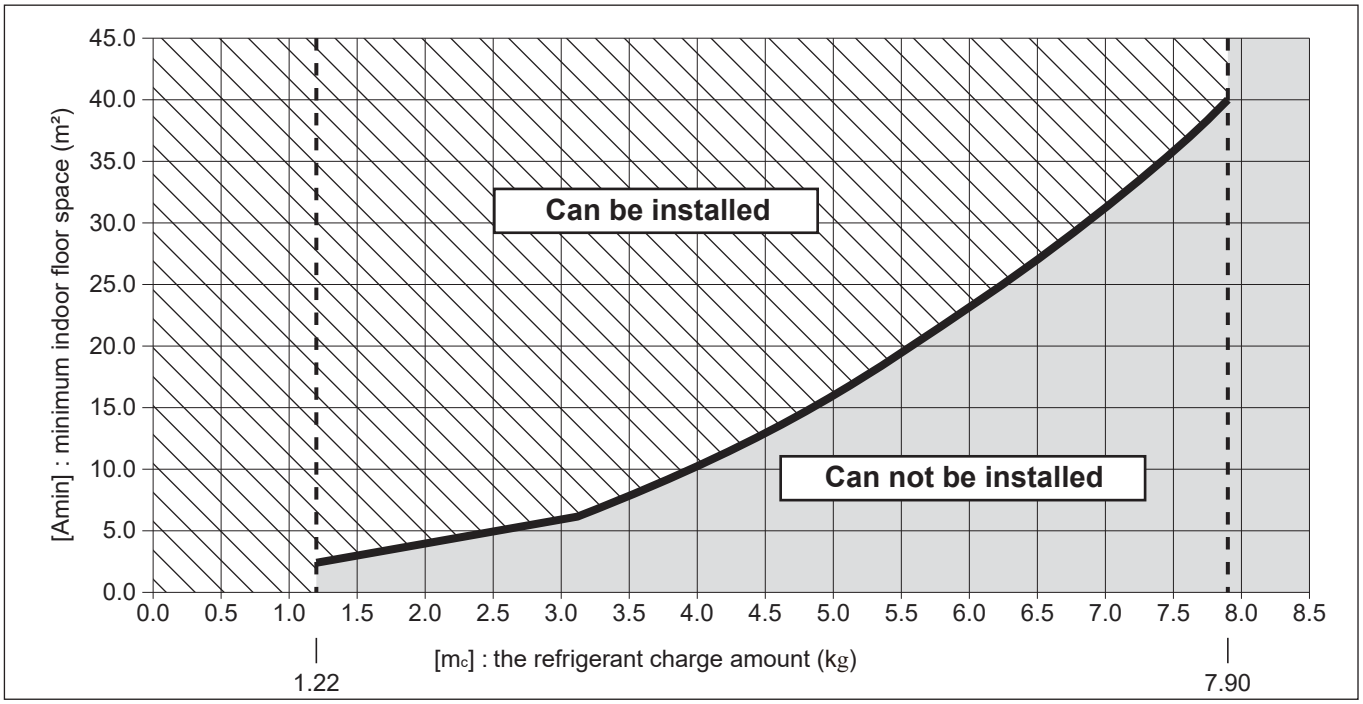


Fig. 1-11-2-1-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-1-2

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8

Middle Static Pressure Duct Type

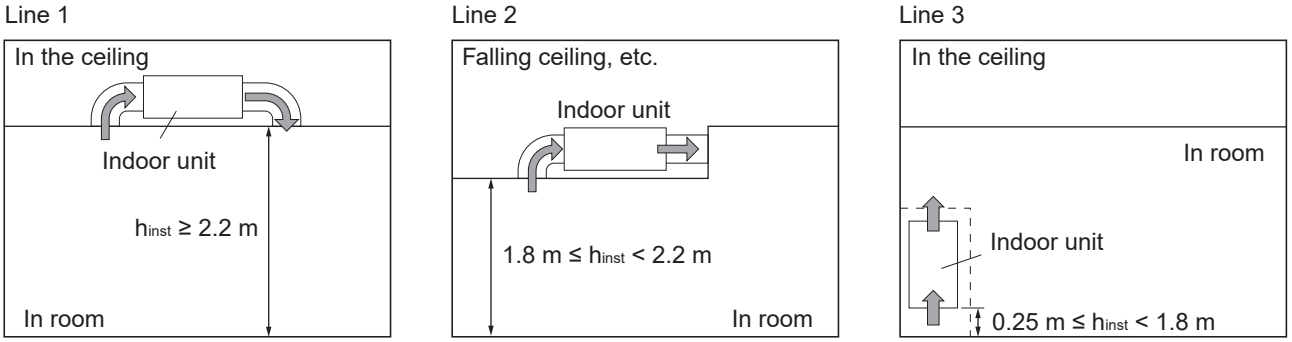
The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

Table 1-11-2-1-3

Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	Middle Static Pressure Duct (Horizontal installation)	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Middle Static Pressure Duct (Horizontal installation)	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct (Vertical installation)	Line 3



The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:
Use the graph or Table 1-11-2-1-4 to determine the minimum indoor floor space.

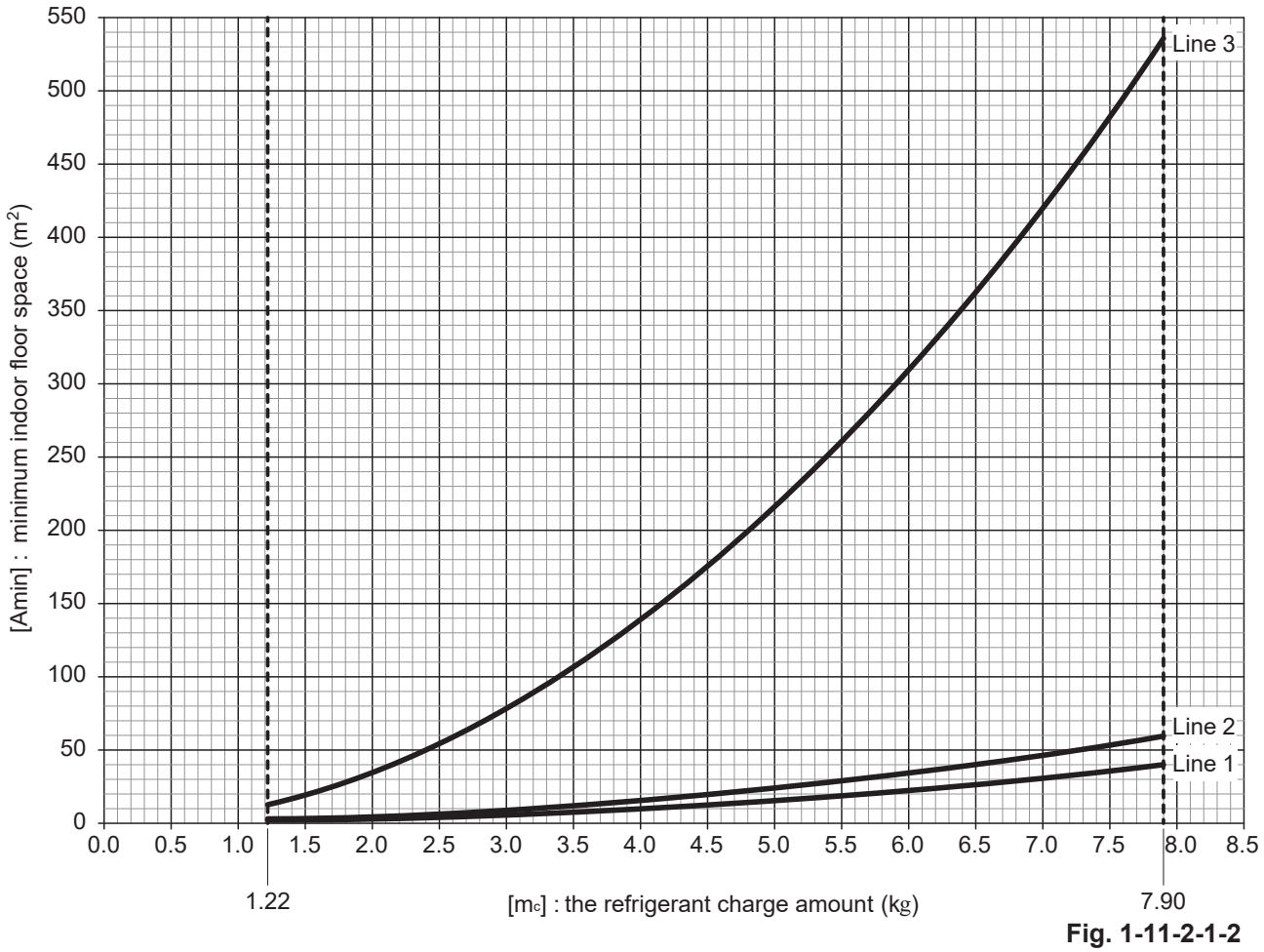


Fig. 1-11-2-1-2

Table 1-11-2-1-4

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
1.22	2.5	3.0	12.8
1.3	2.6	3.2	14.5
1.4	2.8	3.4	16.8

$m_c \leq 1.22$: Can be installed

$1.22 < m_c \leq m_{max}$: Can be installed above “Density Limit Line” *1

*1 See Table 1-11-2-1-3 and Fig. 1-11-2-1-2 of indoor unit when deciding “Density Limit Line”.

Wall Mounted Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

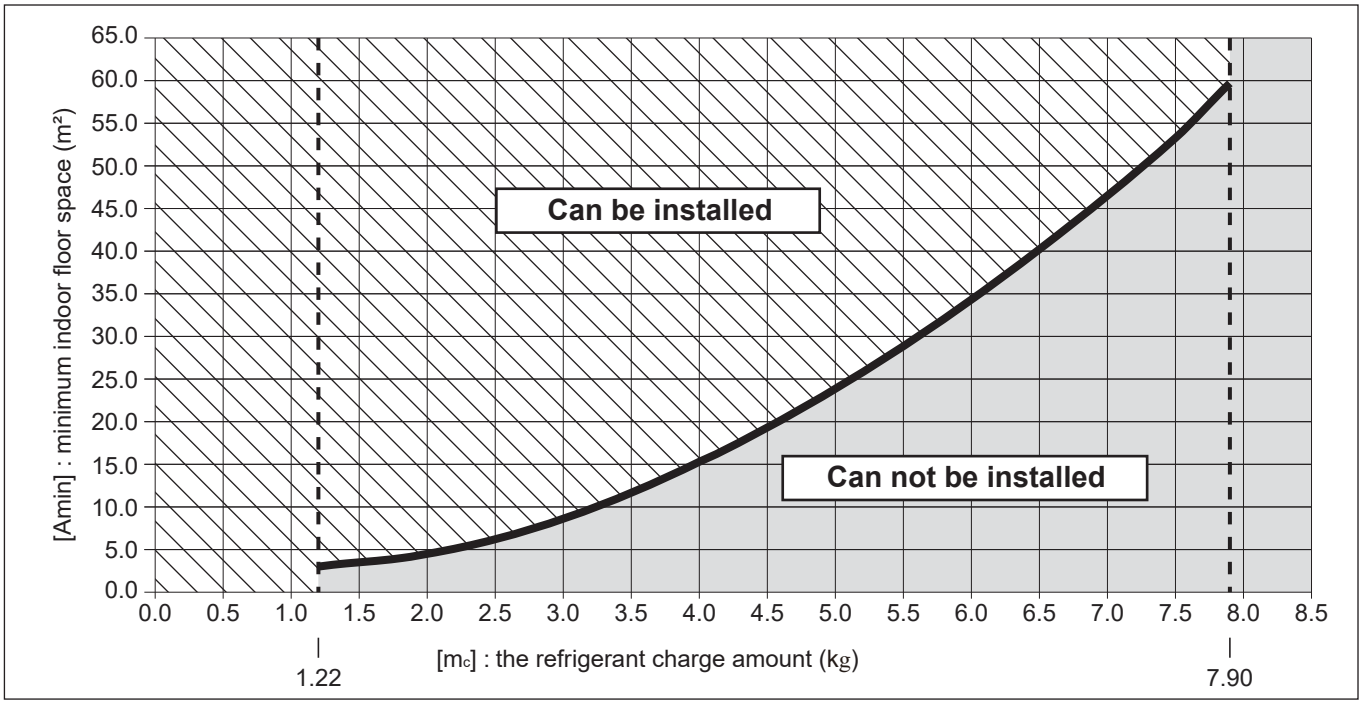


Fig. 1-11-2-1-3

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-1-5

[m_c]	[Amin]
1.22	3.0
1.3	3.2
1.4	3.4

Ceiling Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

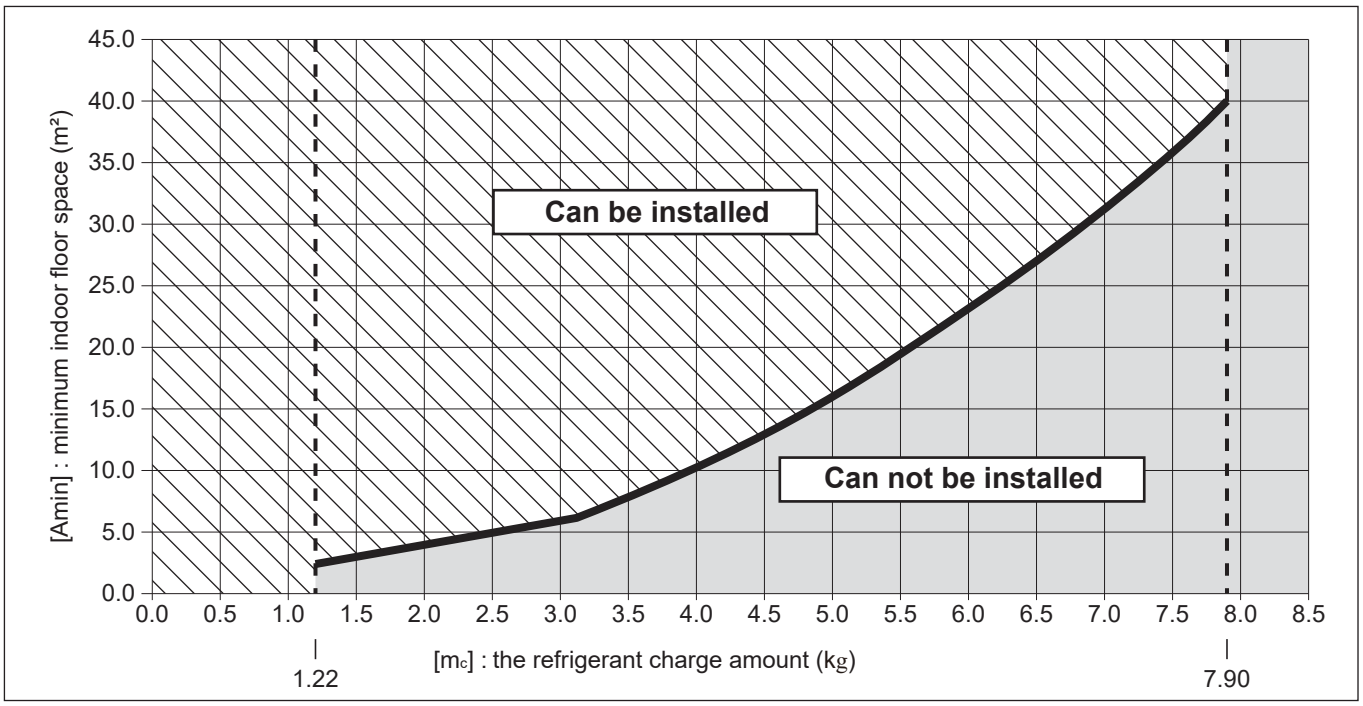


Fig. 1-11-2-1-4

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-1-6

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8

4-Way Cassette 60 × 60 Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space in each room of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-1-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

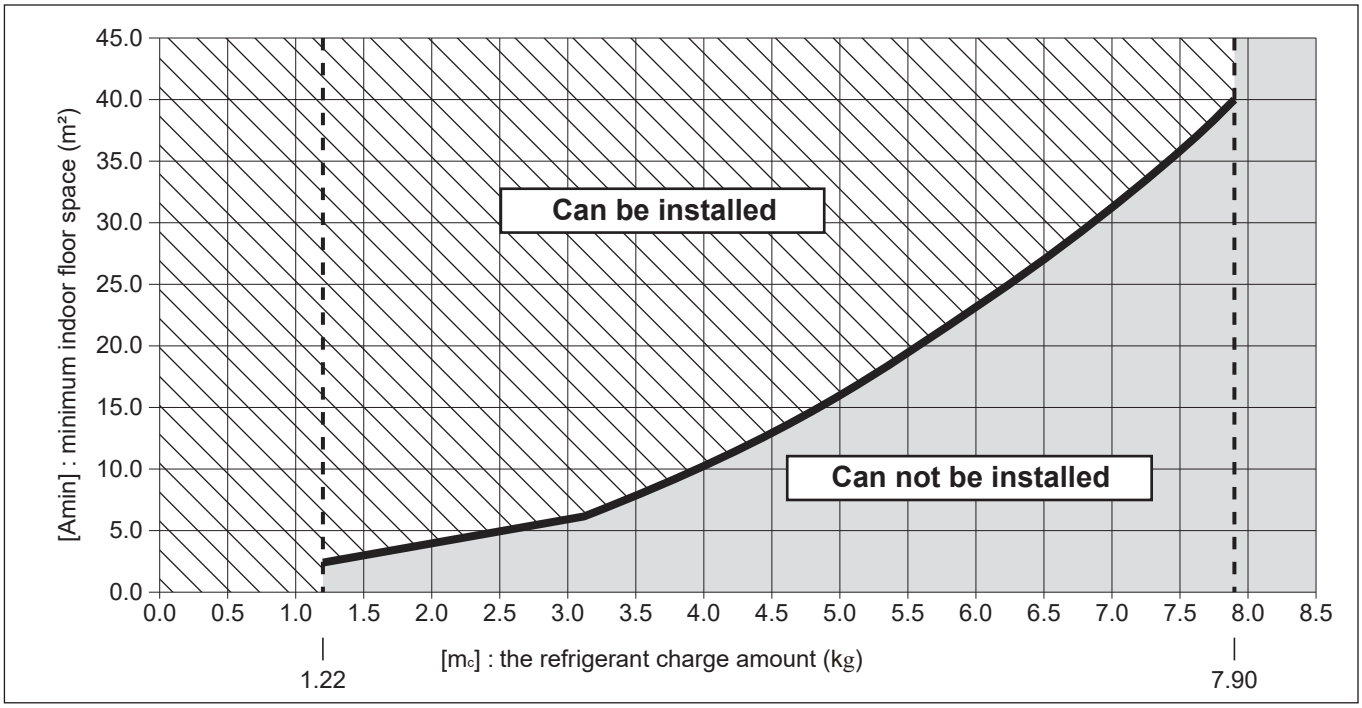


Fig. 1-11-2-1-5

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-1-7

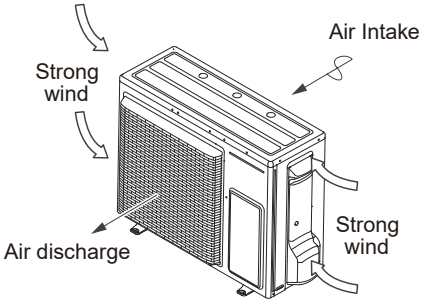
[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8

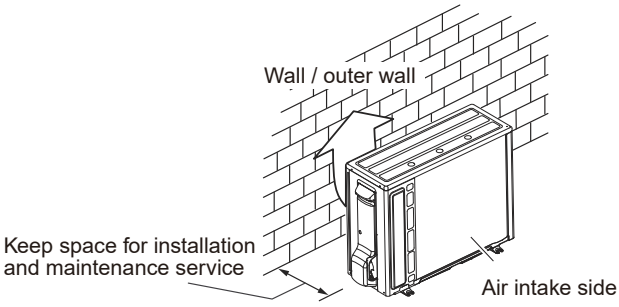
Please install according to 「Warning」「Caution」on page1-11-2-1-1 to 1-11-2-1-7.

1. SELECT THE OUTDOOR UNIT INSTALLATION LOCATION

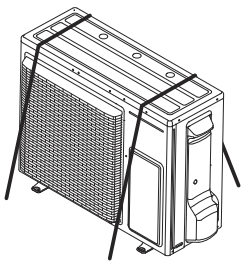
⚠ Warning	Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

1. Install the unit once you have checked that the installation location matches the following conditions.
   - A location with sufficient ventilation.
   - Possibly a location that is sheltered from rain or direct sunlight and is well-ventilated so that hot and cool air does not build up.
   - A location where the area around the discharge is not exposed to animals or plants which could adversely affect the release of hot or cool air from the unit.
   - A location where the discharge and operation noise will not be a nuisance to the neighbours.
   - A location that can support the product's weight or vibrations and secured for horizontal installation wherever possible.
   - A location that does not obstruct the air discharge or intake.
   - A location where there is no danger of flammable or corrosive gas leaks.
   - A location that provides space for installation and service.
   - A location that allows the pipe and cable length fixture for internal and external connections.
   - It may need two or more people to carry out the installation work.
2. See the diagram below for the installation location which is exposed to strong wind.
   - If a strong wind of more than 5 m/sec blows to the area directly in front of the discharge, the outdoor unit's air flow is reduced and the outflow may re-enter (short circuit) causing the following outcome: "Reduced capacity", "Increased frost formation during heating" or "Operation stopped due to increased pressure".Should an exceptionally strong wind blow to the area directly in front of the discharge of the outdoor unit; there is the risk of damage due to the fan's high-speed reverse rotation.
   - If the direction of the prevailing wind is known when operating the unit, place the unit at an appropriate angle to the wind's direction so that the discharge faces towards a building or a wall.





3. If installing at locations prone to snowfall, install the unit as high as possible with suitable roofing which shelters the unit from snow.
4. Avoid installing the unit in locations where there are petroleum products (such as machine oil), saline content (such as coastal areas), sulphurous gas and where high frequency noise is generated.
5. Place the indoor and outdoor unit, power cords and connection cable between outdoor and indoor unit at a minimum distance of 1 meter or more away from televisions and radios. This is to avoid interference to picture and/or sound.
   (However, depending on the electromagnetic waves, noise interference may still occur even with the 1 meter separation.)
6. For restaurants and kitchens, avoid installing at locations which draws oil and steam.
   Plastic parts can deteriorate from droplets of oil and steam or it can cause falling parts or water leakage.
7. Avoid installing at the location where cutting oil mist or iron powder is present.
8. If there is an immense voltage fluctuation due to the location's problem, ensure to split the power supply.
9. When installing the product in a place where it will be affected by typhoon or strong wind such as wind blowing between buildings, including the rooftop of a building and a place where there is no building in surroundings, fix the product with an overturn prevention wire, etc.
10. Ensure to assign several people or use a mechanical lift, etc. to transport the unit.



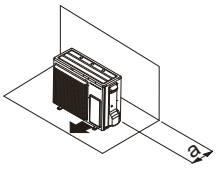
2. SELECTING THE LOCATION FOR INSTALLATION SERVICE

Please secure necessary space to guarantee performance and service & maintenance.
For multiple installations, please secure enough space to enable removal of side face screws between units. (unit:mm)

(A) When an obstruction is present on the air inlet side

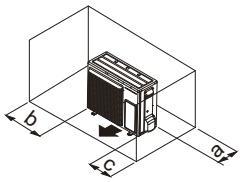
• When the upward area is open

(1) One outdoor unit installed individually
Obstruction only on air inlet side



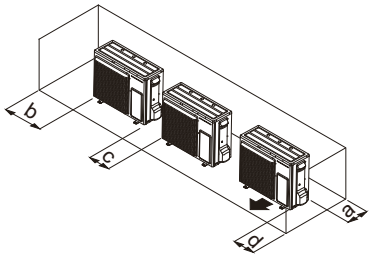
a	50 mm or more

Obstruction on both sides



a	50 mm or more
b	50 mm or more
c	250 mm or more

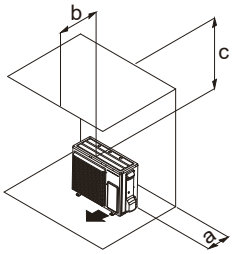
(2) Two or more outdoor units installed side by side
Obstructions on both sides



a	200 mm or more
b	150 mm or more
c	250 mm or more
d	250 mm or more

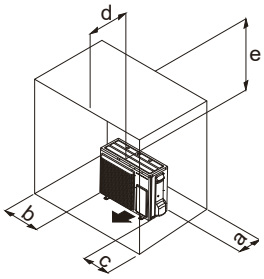
• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually
Obstruction only on air inlet side



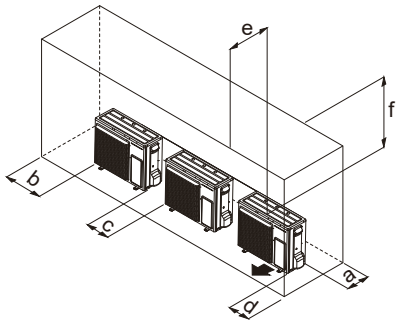
a	50 mm or more
b	500 mm or less
c	300 mm or more

Obstruction also on the air inlet side and both sides



a	50 mm or more
b	50 mm or more
c	250 mm or more
d	500 mm or less
e	1,000 mm or more

(2) Two or more outdoor units installed side by side
Obstruction also on the air inlet side and both sides

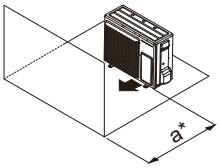


a	400 mm or more
b	1,000 mm or more
c	250 mm or more
d	250 mm or more
e	500 mm or less
f	1,000 mm or more

(B) When an obstruction is present on the air outlet side

• When the upward area is open

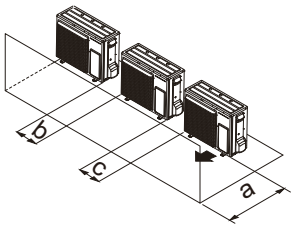
(1) One outdoor unit installed individually



a	500 mm or more

* When also using the air-discharge chamber, provide a space of 500 mm or more.

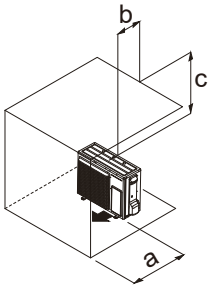
(2) Two or more units installed side by side



a	1,000 mm or more
b	250 mm or more
c	250 mm or more

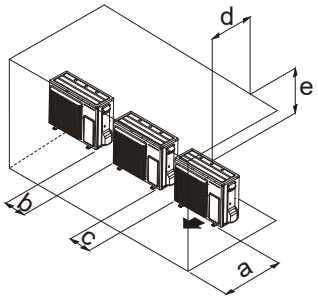
• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually



a	500 mm or more
b	500 mm or less
c	300 mm or more

(2) Two or more units installed side by side



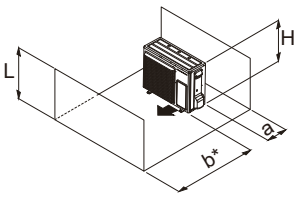
a	500 mm or more
b	250 mm or more
c	250 mm or more
d	500 mm or less
e	1,000 mm or more

(C) When an obstruction is present on both the air inlet and air outlet sides

Case 1: When an obstruction on the air outlet side is higher than the outdoor unit (L > H)
(There is no height restriction on the air inlet side.)

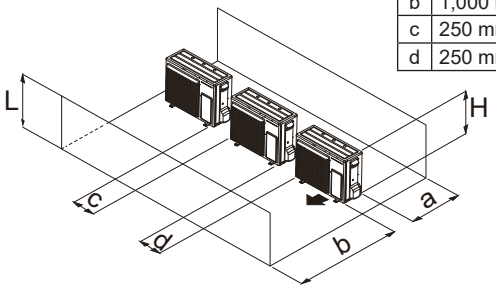
• When the upward area is open

(1) One outdoor unit installed individually



a	100 mm or more
b	500 mm or more

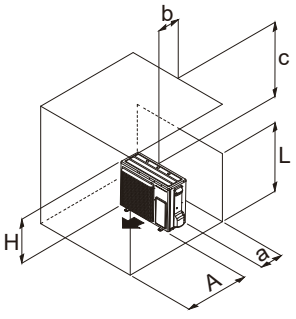
(2) Two or more units installed side by side



a	200 mm or more
b	1,000 mm or more
c	250 mm or more
d	250 mm or more

• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually



a	200 mm or more
b	500 mm or less
c	1,000 mm or more

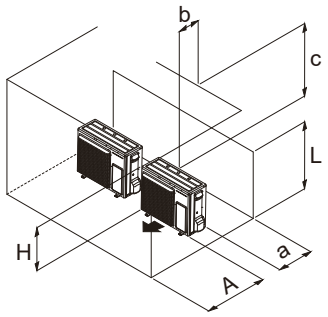
The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

	L	A
L ≤ H	0 < L ≤ 1/2H	300
	1/2H < L ≤ H	500
H < L	Install the frame to achieve L ≤ H.	

Close the area under the frame so that the outlet air does not bypass there.

(2) Only two outdoor units installed side by side



a	200 mm or more
b	500 mm or less
c	1,000 mm or more

The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

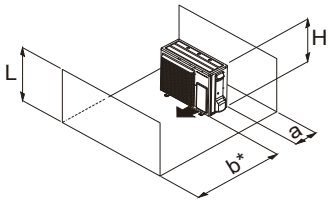
	L	A
L ≤ H	0 < L ≤ 1/2H	500
	1/2H < L ≤ H	750
H < L	Install the frame to achieve L ≤ H.	

Close the area under the frame so that the outlet air does not bypass there.
Only two outdoor units can be installed side by side.

Case 2: When an obstruction on the air outlet side is lower than the outdoor unit (L ≤ H)
(There is no height restriction on the air inlet side.)

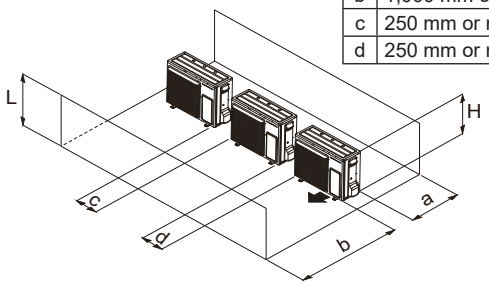
• When the upward area is open

(1) One outdoor unit installed individually



a	100 mm or more
b	500 mm or more

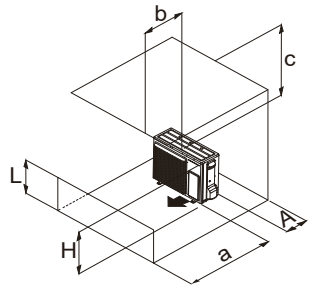
(2) Two or more units installed side by side



a	100 mm or more
b	1,000 mm or more
c	250 mm or more
d	250 mm or more

• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually



a	500 mm or more
b	500 mm or less
c	1,000 mm or more

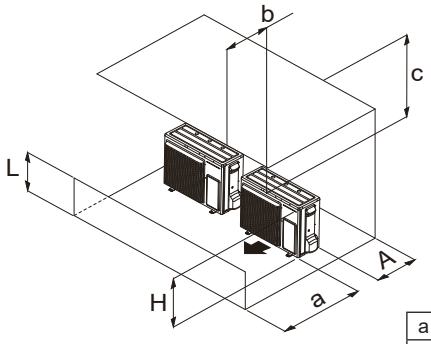
The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

	A
L ≤ H	200
H < L	Install the frame to achieve L ≤ H.

Close the area under the frame so that the outlet air does not bypass there.

(2) Only two outdoor units installed side by side



a	1,000 mm or more
b	500 mm or less
c	1,000 mm or more

The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

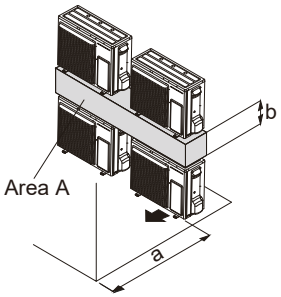
	A
L ≤ H	200
H < L	Install the frame to achieve L ≤ H.

Close the area under the frame so that the outlet air does not bypass there.
Only two outdoor units can be installed side by side.

(D) When outdoor units are stacked

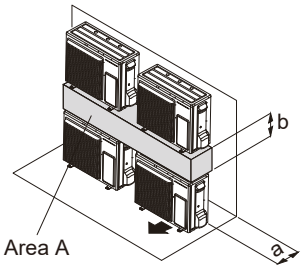
Only two outdoor units can be stacked.
For drain treatment, a space of at least 400 mm is required between the upper and lower outdoor units.
Close the area A (gap between the upper outdoor unit and lower outdoor unit) so that the outlet air does not bypass there.

(1) Obstruction on the air outlet side



a	500 mm or more
b	400 mm

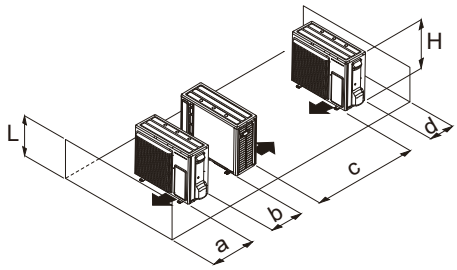
(2) Obstruction on the air inlet side



a	200 mm or more
b	400 mm

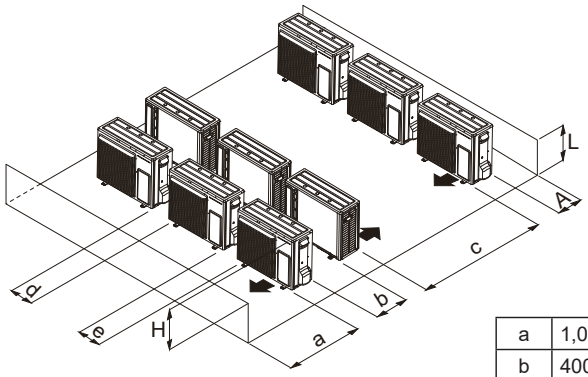
(E) When outdoor units are installed in rows, such as on a rooftop (L < H)

(1) One outdoor unit installed in each row



a	500 mm or more
b	300 mm or more
c	1,000 mm or more
d	50 mm or more

(2) Two or more units installed side by side.



a	1,000 mm or more
b	400 mm or more
c	2,000 mm or more
d	250 mm or more
e	250 mm or more

The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

	A
L ≤ H	150
H < L	Installation is not allowed.

The values described above are the least space to optimize application performance.
If any service area is needed for service according to field circumstance, obtain enough service space.

• The above mentioned distance is required for optimal unit performance.
Allow as much space as possible in order to obtain the best performance from the units.

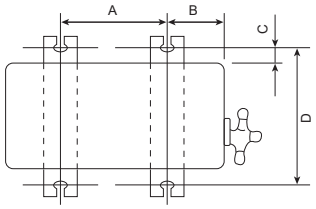
3. TRANSPORT AND INSTALL THE OUTDOOR UNIT

● Transporting

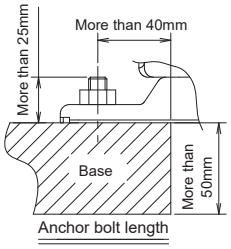
1. Transport the outdoor unit in its original packaging as close as possible to the installation location.
2. In the event that the unit needs to be lifted or suspended, use a rope or belt and use cloth or wood as padding to avoid damaging the unit.
3. Use the side handles to carry the unit and be careful not to touch the fan with your hand or any objects.

● Installation

1. Read the “Select the outdoor unit installation location” thoroughly before installing the outdoor unit.
2. When installing to a concrete or solid surface, use M10 or a W 3/8 bolts and nuts to secure the unit. Ensure that it installed upright on a horizontal plane. (Use an anchor bolt for the installation as shown in the diagram below.)
3. Avoid installing on the slanted roof.
4. In the even where the roof is at risk of receiving oscillations or vibrations, secure the unit with a seismic isolating mount or vibration absorbing rubber.
5. The drain water will be discharged from the unit during heating or defrosting operation mode. Select an appropriate location with good drainage system. (In the winter, there is risk of slipping due to freezing, and depending on the installation set up there is risk of drain water running overhead.)
   - ※ Please consult us if installing drain elbows.
   - ※ In cold regions (where the outdoor temperature can drop to beloy 0° for 2 to 3 consecutive days), the drain water may freeze and may prevent the fan from operating.For this case, do not use the drain elbow.



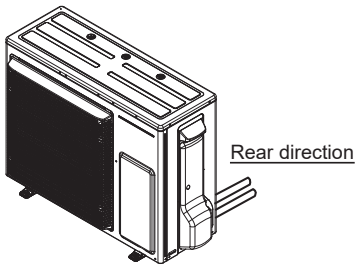
Model	A	B	C	D
U-25***	540 mm	160 mm	18.5 mm	330 mm
U-36***				
U-50***				
U-60***	613 mm	131 mm	24 mm	360.5 mm
U-71***				



4. REFRIGERANT INSTALLATION

For indoor unit refrigerant piping installation, see “■ HOW TO PROCESS TUBING” under 1-11-1. Installation Instructions of Indoor Unit.

1. Precautions during refrigerant installation.
   - Use clean pipes with no dust inside.
     The pipe may corrode with the presence of fluorine dust which will adversely affect the refrigerant piping system due to deterioration of the refrigerant oil, etc.
   - This unit is specifically for R32. Ensure to adhere to the following items and install accordingly:
     - Use pipe cutters and flaring tools which are specially designed for use with R32.
     - When connecting with flaring tools, coat the flare section with ether-based oil.
     - Ensure to use flare nuts supplied with the unit when connecting this unit.
     - Only for storing or for open pipes.
     - Set the lower limit of the allowable pipe length to 3m.
       If the pipe is shorter than 3m, the refrigerant may become overfilled and a problem such as abnormal high pressure could occur.
     - Carefully handle the liquid refrigerant, as it may cause a frostbite.
     - Do not release refrigerants during the piping works for installing, re-installing and repairing refrigeration parts.



Specification for pipe connecting indoor unit to outdoor unit.

			U-25PZ3E5	U-36PZ3E5	U-50PZ3E5	U-60PZ3E5A	U-71PZ3E5A
Pipe outer diameter	Liquid	mm (in.)	6.35 (1/4)				
	Gas	mm (in.)	12.7 (1/2)				15.88 (5/8)
Maximum pipe length		(m)	15		20	40	
Maximum elevation	Outdoor unit is placed higher	(m)	15			30	
	Outdoor unit is placed lower	(m)				15	20
Charge-less pipe length		(m)	3 ~ 7.5			3 ~ 30	
Additional charge per 1 m		(g)	10		15		17
Refrigerant charged at shipment		(kg)	0.87		1.14	1.15	1.32
Total refrigerant amount		(kg)	0.95		1.33	1.30	1.49

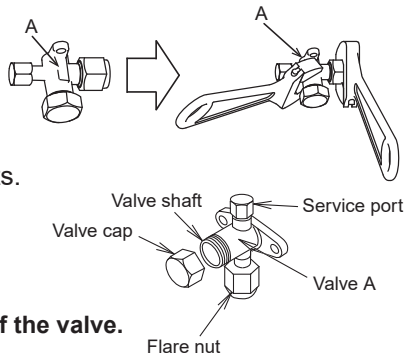
Piping Thickness:

Size mm (in.)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)
Thickness. mm	≥ 0.8	≥ 0.8	≥ 0.8	≥ 1.0
Material	Temper-O (Soft copper tube)			

Precautions when operating the 3-way valve for piping installation

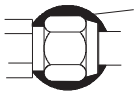
- Do not open the 3-way valve until the piping installation is completed.
  - It is closed during shipment.
  - When removing or tightening the gas tube flare nut, use 2 adjustable wrenches together:
    one at the gas tube flare nut, and the other at part A.
- See the following table for the tightening torque of the 3-way valve flare nuts.
  - If the nuts are over tightened, they may cause the flares to break or leak.
- Do not add additional force to the valve's cover.
  - Using spanners on the cover or valve itself (other than the hexagonal parts) may cause gas leakage.

  Avoid using spanners on the cover or parts other than the hexagonal part of the valve.



Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.



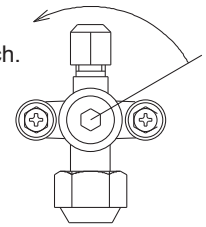
Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

		Tightening torque (approx.)
Valve cap (Valve size)	ø6.35 (1/4")	14N•m~18N•m (140kgf•cm~180kgf•cm)
	ø12.7 (1/2")	49N•m~55N•m (490kgf•cm~550kgf•cm)
	ø15.88	48.0N•m~59.8N•m (480kgf•cm~598kgf•cm)
Service port		10.7N•m~14.7N•m (107kgf•cm~147kgf•cm)

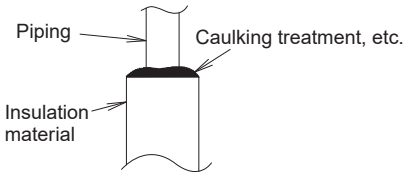
[3-way valve operation method]

- Use an Allen wrench.
  Direction to open



Opening : Open the cover and turn the Allen wrench counter-clockwise until it stops.

Closing : Open the cover and turn the Allen wrench clockwise until it stops.



Precautions for handling the valve cap

- Ensure not to scratch the inner surface of the valve or the end of the valve shaft.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for handling the service ports

- Use a push-rod with a charge hose.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for connecting the pipes

- For proper connection, align the union and flare straight with each other.
- Ensure that the pipes do not come into contact with the compressor's bolts or exterior panel.
- There is a risk of condensation from the 3-way valve coming out between the insulation material and the indoor unit's piping when you install the outdoor unit above then the indoor unit. Ensure to caulk the connection parts.

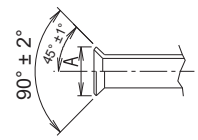
Precautions for insulation installation

Maximum temperature limit of gas or liquid piping is 120 °C

- In high humidity environment, reinforce the insulation material for the refrigerant piping. Failure to do so may result in condensation on the surface of the insulation material.
- Use materials with good heat-resistant properties as the heat insulator for the pipes. Ensure to insulate both the gas side and liquid side pipes.
  If the pipes are not adequately insulated, condensation and water leakages may occur.
- Ensure that the current insulation covers the pipes up to the unit's connecting part.
  If the piping is exposed, it may cause condensation or burn (when touch the pipe).

Precautions for flare nut installation

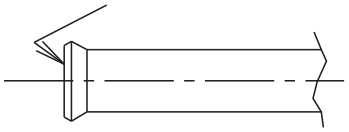
- Dimensions when adding flare nuts and the tightening torque

Piping size	Tightening torque (approx.)	Flare section dimensions A	Flare configuration
ø 6.35	18.0 N•m (180 kgf•cm)	8.7 ~ 9.1 mm	
ø 9.52	42.0 N•m (420 kgf•cm)	12.8 ~ 13.2 mm	
ø 12.7	55.0 N•m (550 kgf•cm)	16.2 ~ 16.6 mm	
ø 15.88	65.0 N•m (650 kgf•cm)	19.3 ~ 19.7 mm	

After piping connection has completed, ensure there is no gas leakage.

- When tightening the flare nut, coat the flares (inner surface only) with refrigerant oil on the flares Firstly, screw in 3-4 turns by hand.
  * Ensure not to get oil on the screw part.
  Refrigerant oil used is ether-based.
- Once the piping connections are completed, perform leakage inspection using nitrogen gas.
- When flared joints are reused, the flare part shall be re-fabricated.

Application for ether-based oil



INCASE OF REUSING EXISTING REFRIGERANT PIPING

*** Observe the followings to decide reusing the existing refrigerant piping.Poor refrigerant piping could result in product failure.**

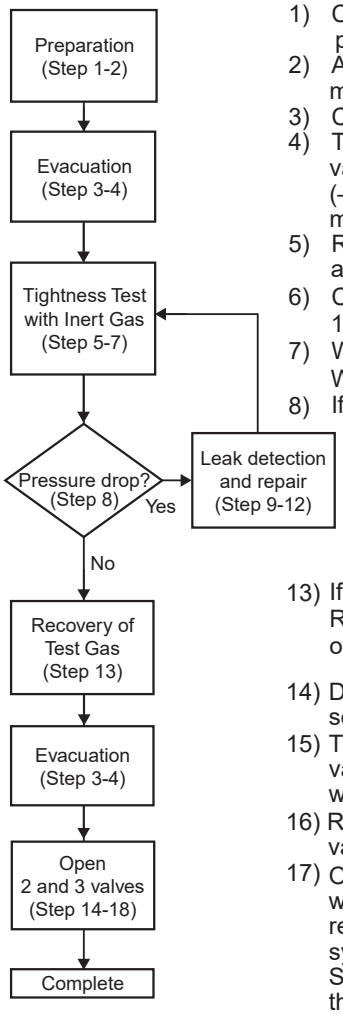
- In the circumstances listed below, do not reuse any refrigerant piping. Instead, make sure to install a new piping.
  - Heat insulation is not provided for either liquid-side or gas-side piping or both.
  - The existing refrigerant pipe has been left in an open condition.
  - The diameter and thickness of the existing refrigerant piping does not meet the requirement. (See above tables)
  - The piping length and elevation does not meet the requirement. (See above tables)
  - Use only R32 or R410A genuine branch pipe.
- Perform proper pump down for operated product before reuse piping.
- In the circumstances listed below, clean it thoroughly before reuse.
  - Pump down operation cannot be performed for the existing air conditioner.
  - The compressor has a failure history.
  - Oil color is darken. (ASTM 4.0 and above)
  - The existing air conditioner is gas/oil heat pump type.
- Do not reuse the flare to prevent gas leak. Make sure to install a new flare.
- If there is a welded part on the existing refrigerant piping, conduct a gas leak check on the welded part.
- Replace deteriorated heat insulating material with a new one. Heat insulating material is required for both liquid-side and gas-side piping.

5. AIR TIGHTNESS TEST ON THE REFRIGERATING SYSTEM

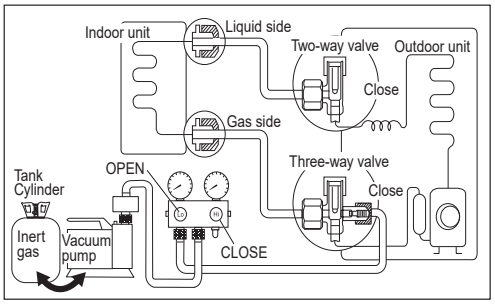
AIR PURGING METHOD IS PROHIBITED FOR R32 SYSTEM

Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation.
There is no extra refrigerant in the outdoor unit for air purging.

- Before system is charged with refrigerant and before the refrigerating system is put into operation, below site test procedure procedure and acceptance criteria shall be vertified by the certified technicians, and/or the installer.
- Be sure to check whole system for gas leakage.



1) Connect a charging hose with a push pin to the Low side of a charging set and the service port of the 3-way valve.
2) Attach the gauge manifold set correctly and tightly. Make sure that both valves of the manifold gauge (low pressure and high pressure) is in close position.
3) Connect the center hose of the manifold gauge to a vacuum pump.
4) Turn on the power switch of the vacuum pump, then turn open the low side manifold gauge valve and make sure that the needle in the gauge moves from 0 cmHg (0 MPa) to –76 cmHg (–0.1 MPa). This process continues for approximately ten minutes. Then close the low side manifold gauge valve.
5) Remove the vacuum pump from the centre hose and connect the center hose to cylinder of any applicable inert gas as test gas.
6) Charge test gas into the system and wait until the pressure within the system to reach min. 1.04 MPa (10.4 barg).
7) Wait and monitor the pressure reading on the gauges. Check if there is any pressure drop. Waiting time depends on the size of the system.
8) If there is any pressure drop, perform step 9-12. If there is no pressure drop, perform step 13.
9) Use Gas Leak Detector to check for leaks. Must use the detection equipment with a sensitivity of 5 grams per year of test gas or better.
10) Move the probe along the air conditioning system to check for leaks, and mark for repair.
11) Any leak detected and marked shall be repaired
12) After repair, repeat evacuation steps 3-4 and tightness test steps 5-7. Check the pressure drop as in step 8.
13) If no leak, Recover the test gas. Perform evacuation of steps 3-4. Then proceed to step 14.
14) Disconnect the charging hose from the service port of the 3-way valve.
15) Tighten the service port caps of the 3-way valve at a torque of 18 N•m with a torque wrench.
16) Remove the valve caps of both of the 2-way valve and 3-way valve.
17) Open both of the valves, using a hexagonal wrench (4 mm). It is recommended to allow refrigerant slowly flow into the refrigerant system to prevent refrigerant freezing. Slightly open 2-way valve for 5 seconds then close the valve. Repeat this action for 3 cycles then fully open the valve.
18) Mount back the valve caps onto the 2-way valve and the 3-way valve to complete this process.



Notes:
Recommended use of any of the following leak detector,
I) Universal Sniffer leak detector
II) Electronic halogen leak detector
III) Ultrasonic Leak Detector

6. REGARDING REFRIGERANT FILLING

Precautions during refrigerant filling

- Use tools that are designed specifcally for R32, for pressure resistance and to prevent mixing impurities.
- Fill the refrigerant from the 3-way valve's service port on the liquid-side.

For filling and replacing all refrigerant (For refilling due to a leak)

- For refilling refrigerant, first collect all residual refrigerant and after vacuum dehydration using the vacuum pump. Refill the refrigerant according to the prescribed amount stated on the placard affixed to this unit.

Precautions after the pipes' connection have completed

- Ensure to open the 3-way valve after completing the piping installation, leak test and vacuuming. If it is closed during operation, it can lead to compressor failure.

1-11-2-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

⚠ WARNING	
❗	The appliance shall be stored, installed and operated in a well ventilated room with indoor floor area larger than A_{min} (m^2) [see Check of Density Limit] and without any continuously operating ignition source. Keep away from open flames, any operating gas appliances or any operating electric heater. Else, it may explode and cause injury or death.
❗	The mixing of different refrigerants within a system is prohibited. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety. Therefore, check beforehand. [The charging port thread diameter for R32 and R410A is 12.7 mm (1/2 inch).]
❗	Ensure that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)
❗	Operation, maintenance, repairing and refrigerant recovery should be carried out by trained and certified personnel in the use of flammable refrigerants and as recommended by the manufacturer. Any personnel conducting an operation, servicing or maintenance on a system or associated parts of the equipment should be trained and certified.
❗	Any part of refrigerating circuit (evaporators, air coolers, AHU, condensers or liquid receivers) or piping should not be located in the proximity of heat sources, open flames, operating gas appliance or an operating electric heater.
❗	The user/owner or their authorized representative shall regularly check the alarms, mechanical ventilation and detectors, at least once a year, where as required by national regulations, to ensure their correct functioning.
❗	A logbook shall be maintained. The results of these checks shall be recorded in the logbook.
❗	In case of ventilations in occupied spaces shall be checked to confirm no obstruction.
❗	Before a new refrigerating system is put into service, the person responsible for placing the system in operation should ensure that trained and certified operating personnel are instructed on the basis of the instruction manual about the construction, supervision, operation and maintenance of the refrigerating system, as well as the safety measures to be observed, and the properties and handling of the refrigerant used.
❗	The general requirement of trained and certified personnel are indicated as below: a) Knowledge of legislation, regulations and standards relating to flammable refrigerants; and, b) Detailed knowledge of and skills in handling flammable refrigerants, personal protective equipment, refrigerant leakage prevention, handling of cylinders, charging, leak detection, recovery and disposal; and, c) Able to understand and to apply in practice the requirements in the national legislation, regulations and Standards; and, d) Continuously undergo regular and further training to maintain this expertise.
❗	Air-conditioner piping in the occupied space shall be installed in such a way to protect against accidental damage in operation and service.
❗	Precautions shall be taken to avoid excessive vibration or pulsation to refrigerating piping.
❗	Ensure protection devices, refrigerating piping and fittings are well protected against adverse environmental effects (such as the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris).
❗	Expansion and contraction of long runs piping in refrigerating systems shall be designed and installed securely (mounted and guarded) to minimize the likelihood hydraulic shock damaging the system.
❗	Protect the refrigerating system from accidental rupture due to moving furniture or reconstruction activities.
❗	To ensure no leaking, field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure (>1.04MPa, max 4.15MPa). No leak shall be detected.

⚠ CAUTION

1. General
   - Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.
   - Must ensure that pipe-work shall be protected from physical damage.
   - Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.
   - Must ensure mechanical connections be accessible for maintenance purposes.
   - In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
   - When disposal of the product, do follow to the precautions in #11 and comply with national regulations.
   - In case of field charge, the effect on refrigerant charge caused by the different pipe length has to be quantified, measured and labelled.
     Always contact to local municipal offices for proper handling.
   - Ensure the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
   - Ensure refrigerant charge not to leak.
   - Wear appropriate protective equipment, including respiratory protection, as conditions warrant.
   - Keep all sources of ignition and hot metal surfaces away.

2. Servicing Qualification

2-1. Qualification of workers

- Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Servicing shall be performed only as recommended by the manufacturer.
- The system is inspected, regularly supervised and maintained by a trained and certified service personnel who is employed by the person user or party responsible.

2-2. Checks to the area

- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised.
  For repair to the refrigerating system, the precautions in #2-3 to #2-7 must be followed before conducting work on the system.

2-3. Work procedure

- Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.

2-4. General work area

- All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.
- Avoid working in confined spaces. Always ensure away from source, at least 2 meter of safety distance, or zoning of free space area of at least 2 meter in radius.

2-5. Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.
- In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.
- In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.

2-6. Presence of fire extinguisher

- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.
- Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

2-7. No ignition sources

- No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. They must not be smoking when carrying out such work.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- “No Smoking” signs shall be displayed.

2-8. Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

2-9. Checks to the refrigerating equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer’s technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants.
  - The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
  - The ventilation machinery and outlets are operating adequately and are not obstructed.
  - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
  - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
  - Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance
    which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.

2-10. Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- Initial safety checks shall include but not limit to:-
  - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
  - That there is no live electrical components and wiring are exposed while charging, recovering or purging the system.
  - That there is continuity of earth bonding.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer’s technical department for assistance.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- The owner of the equipment must be informed or reported so all parties are advised thereinafter.

3. Repairs to sealed components
- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE:
- The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment.
- Intrinsically safe components do not have to be isolated prior to working on them.

4. Repair to intrinsically safe components
- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

5. Cabling
- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

6. Detection of flammable refrigerants
- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.
- The following leak detection methods are deemed acceptable for all refrigerant systems.
  - No leaks shall be detected when using detection equipment with a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0, 25 times the maximum allowable pressure (>1.04MPa, max 4.15MPa) for example, a universal sniffer.
  - Electronic leak detectors may be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration.
    (Detection equipment shall be calibrated in a refrigerant-free area.)
  - Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
  - Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed.
  - Leak detection fluids are also suitable for use with most refrigerants, for example, bubble method and fluorescent method agents. The use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
  - If a leak is suspected, all naked flames shall be removed/extinguished.
  - If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. The precautions in #7 must be followed to remove the refrigerant.

7. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used.
  However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:

  • remove refrigerant -> • purge the circuit with inert gas -> • evacuate -> • purge with inert gas -> • open the circuit by cutting or brazing

- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be purged with OFN to render the appliance safe. (remark: OFN = Oxygen Free Nitrogen, type of inert gas)
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Purging shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and there is ventilation available.

8. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.
  - Ensure that contamination of different refrigerants does not occur when using charging equipment.
  - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
  - Cylinders shall be kept in an appropriate position according to the instructions.
  - Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
  - Label the system when charging is complete (if not already).
  - Extreme care shall be taken not to over fill the refrigerating system.
- Prior to recharging the system it shall be pressure tested with OFN (see #7).
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.
- Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

9. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.
- It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with instructions.

h) Do not over fill cylinders. (No more than 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

10. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

11. Recovery

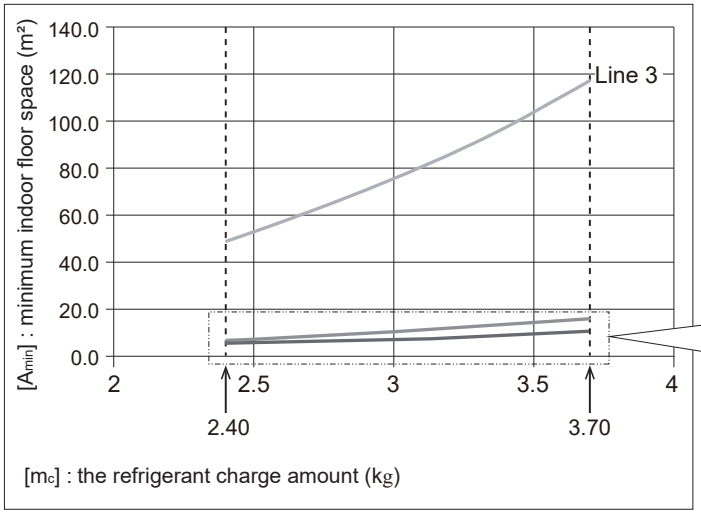
- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

■ Check of Density Limit

● Outdoor

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:



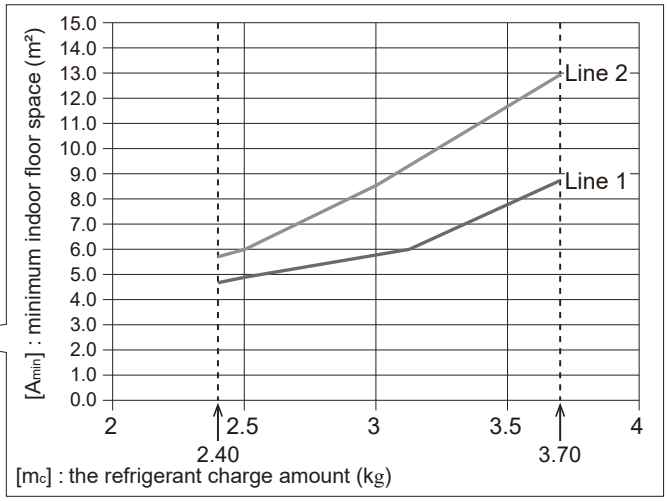


Table 1-11-2-2-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$2.40 \leq m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-11-2-2-1 and below.
Fig. 1-11-2-2-1, Table 1-11-2-2-2.
Fig. 1-11-2-2-2, Table 1-11-2-2-4.
Fig. 1-11-2-2-3, Table 1-11-2-2-5.
Fig. 1-11-2-2-4, Table 1-11-2-2-6.
Fig. 1-11-2-2-5, Table 1-11-2-2-7.

$m_c > m_{max}$: Cannot be installed

	U-100PZ3E5 U-100PZ3E8	U-125PZ3E5, U-140PZ3E5 U-125PZ3E8, U-140PZ3E8
m_{max}	3.30 kg	3.70 kg

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-2-20.

(conditions : U-140PZ3E5 Total pipe length = 50 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 2.80 \text{ kg} + (0.045 \text{ kg} * (50 \text{ m} - 30 \text{ m})) = 3.70 \text{ kg}$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

● **Indoor**

4-Way Cassette Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-2-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

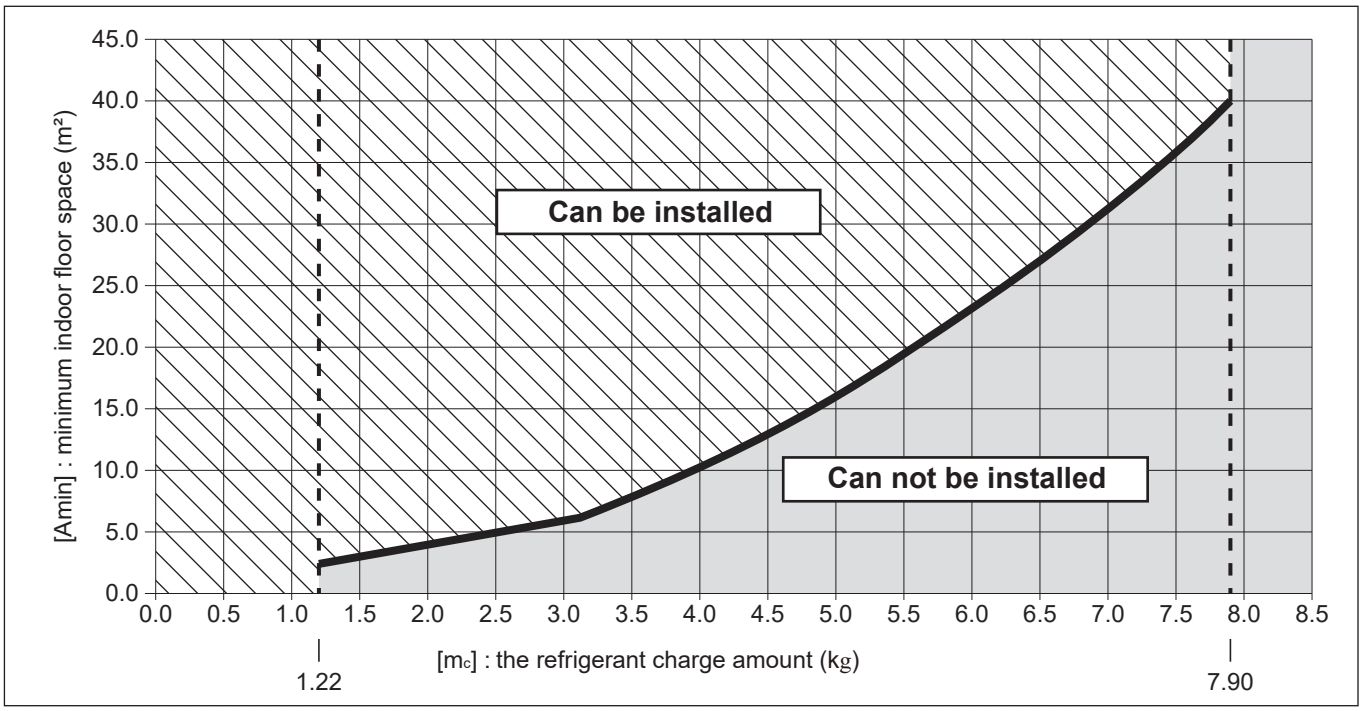


Fig. 1-11-2-2-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-2-2

[m_c]	[Amin]
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.6
3.3	7.0
3.4	7.4
3.5	7.9
3.6	8.3
3.7	8.8

Middle Static Pressure Duct Type

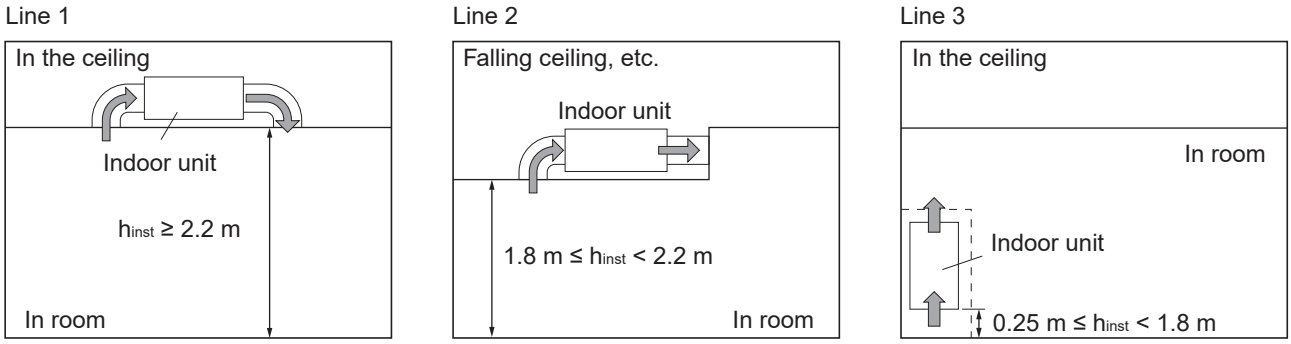
The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-2-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

Table 1-11-2-2-3

Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	Middle Static Pressure Duct (Horizontal installation)	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Middle Static Pressure Duct (Horizontal installation)	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct (Vertical installation)	Line 3



The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:
Use the graph or Table 1-11-2-2-4 to determine the minimum indoor floor space.

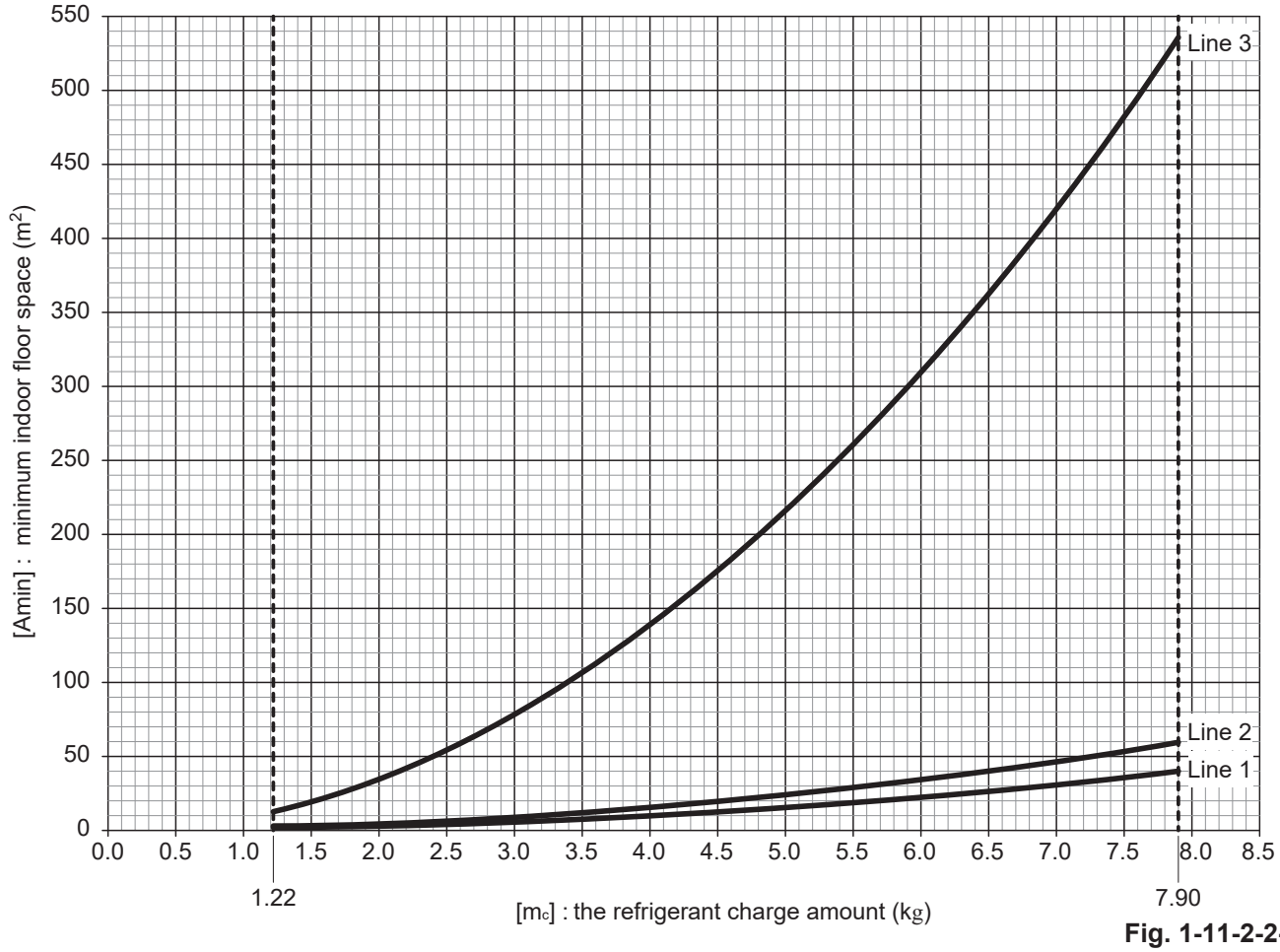


Fig. 1-11-2-2-2

Table 1-11-2-2-4

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
2.4	4.8	5.8	49.4
2.5	5.0	6.1	53.6
2.6	5.2	6.5	58.0
2.7	5.4	7.0	62.6
2.8	5.6	7.5	67.3
2.9	5.8	8.1	72.2
3.0	6.0	8.6	77.2
3.1	6.2	9.2	82.5
3.2	6.6	9.8	87.9
3.3	7.0	10.4	93.4
3.4	7.4	11.1	99.2
3.5	7.9	11.7	105.1
3.6	8.3	12.4	111.2
3.7	8.8	13.1	117.5

$m_c \leq 1.22$: Can be installed
$1.22 < m_c \leq m_{max}$: Can be installed above “Density Limit Line” *1
*1 See Table 1-11-2-2-3 and the Fig. 1-11-2-2-2 when deciding “Density Limit Line”.

Wall Mounted Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-2-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

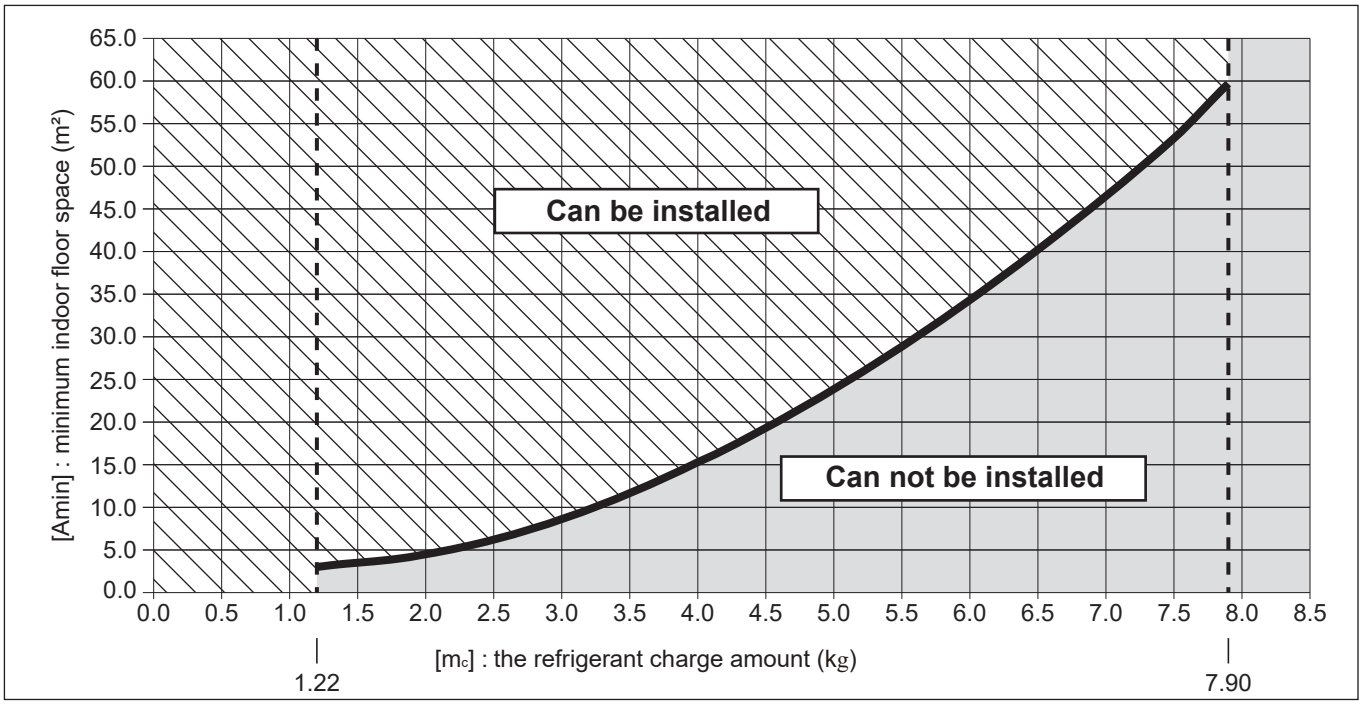


Fig. 1-11-2-2-3

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-2-5

[m_c]	[Amin]
1.22	3.0
1.3	3.2
1.4	3.4
1.5	3.7
1.6	3.9
1.7	4.2
1.8	4.4
1.9	4.6
2.0	4.9
2.1	5.1
2.2	5.4
2.3	5.6
2.4	5.9
2.5	6.1
2.6	6.4
2.7	6.9
2.8	7.5

[m_c]	[Amin]
2.9	8.0
3.0	8.6
3.1	9.1
3.2	9.7
3.3	10.3
3.4	11.0
3.5	11.6
3.6	12.3
3.7	13.0

Ceiling Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-2-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

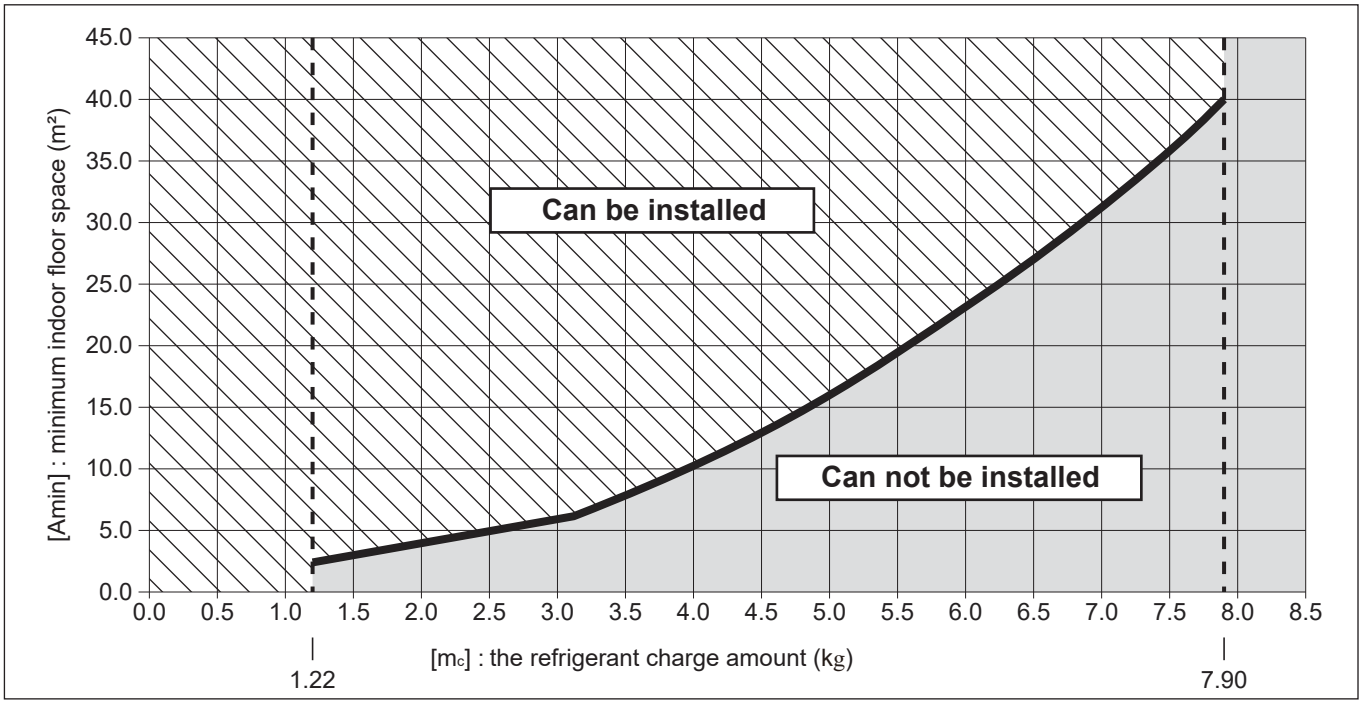


Fig. 1-11-2-2-4

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-2-6

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8
1.5	3.0
1.6	3.2
1.7	3.4
1.8	3.6
1.9	3.8
2.0	4.0
2.1	4.2
2.2	4.4
2.3	4.6
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6

[m_c]	[Amin]
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.5
3.3	6.9
3.4	7.4
3.5	7.8
3.6	8.3
3.7	8.7

4-Way Cassette 60 × 60 Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space in each room of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-2-20.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

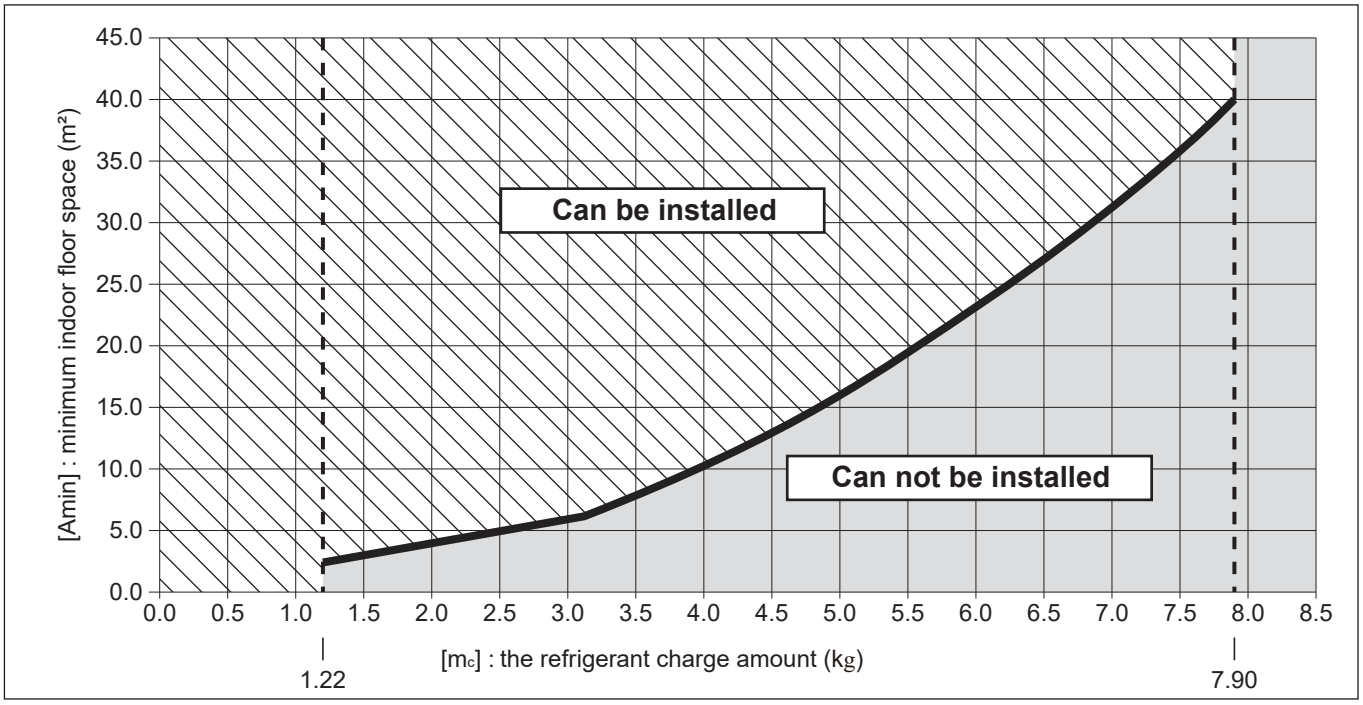


Fig. 1-11-2-2-5

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-2-7

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8
1.5	3.0
1.6	3.2
1.7	3.4
1.8	3.6
1.9	3.8
2.0	4.0
2.1	4.2
2.2	4.4
2.3	4.6
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6

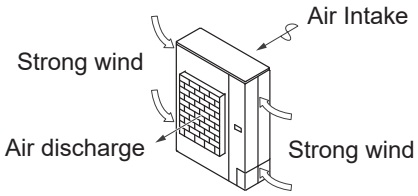
[m_c]	[Amin]
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.5
3.3	6.9
3.4	7.4
3.5	7.8
3.6	8.3
3.7	8.7

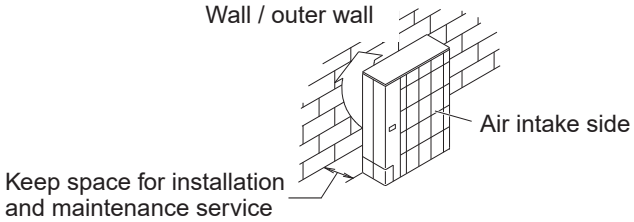
Please install according to 「Warning」「Caution」on page1-11-2-2-1 to 1-11-2-2-7.

1. SELECT THE OUTDOOR UNIT INSTALLATION LOCATION

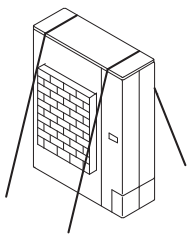
⚠ Warning	Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

1. Install the unit once you have checked that the installation location matches the following conditions.
   - A location with sufficient ventilation.
   - Possibly a location that is sheltered from rain or direct sunlight and is well-ventilated so that hot and cool air does not build up.
   - A location where the area around the discharge is not exposed to animals or plants which could adversely affect the release of hot or cool air from the unit.
   - A location where the discharge and operation noise will not be a nuisance to the neighbours.
   - A location that can support the product's weight or vibrations and secured for horizontal installation wherever possible.
   - A location that does not obstruct the air discharge or intake.
   - A location where there is no danger of flammable or corrosive gas leaks.
   - A location that provides space for installation and service.
   - A location that allows the pipe and cable length fixture for internal and external connections.
   - It may need two or more people to carry out the installation work.
2. See the diagram below for the installation location which is exposed to strong wind.
   - If a strong wind of more than 5 m/sec blows to the area directly in front of the discharge, the outdoor unit's air flow is reduced and the outflow may re-enter (short circuit) causing the following outcome: "Reduced capacity", "Increased frost formation during heating" or "Operation stopped due to increased pressure". Should an exceptionally strong wind blow to the area directly in front of the discharge of the outdoor unit; there is the risk of damage due to the fan's high-speed reverse rotation.
   - If the direction of the prevailing wind is known when operating the unit, place the unit at an appropriate angle to the wind's direction so that the discharge faces towards a building or a wall.





3. If installing at locations prone to snowfall, install the unit as high as possible with suitable roofing which shelters the unit from snow.
4. Avoid installing the unit in locations where there are petroleum products (such as machine oil), saline content (such as coastal areas), sulphurous gas and where high frequency noise is generated.
5. Place the indoor and outdoor unit, power cords and connection cable between outdoor and indoor unit at a minimum distance of 1 meter or more away from televisions and radios. This is to avoid interference to picture and/or sound. (However, depending on the electromagnetic waves, noise interference may still occur even with the 1 meter separation.)
6. For restaurants and kitchens, avoid installing at locations which draws oil and steam. Plastic parts can deteriorate from droplets of oil and steam or it can cause falling parts or water leakage.
7. Avoid installing at the location where cutting oil mist or iron powder is present.
8. If there is an immense voltage fluctuation due to the location's problem, ensure to split the power supply.
9. When installing the product in a place where it will be affected by typhoon or strong wind such as wind blowing between buildings, including the rooftop of a building and a place where there is no building in surroundings, fix the product with an overturn prevention wire, etc.
10. Ensure to assign several people or use a mechanical lift, etc. to transport the unit.



2. SELECTING THE LOCATION FOR INSTALLATION SERVICE

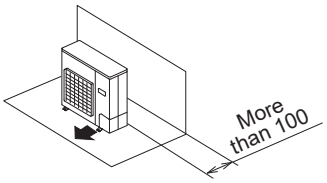
Please secure necessary space to guarantee performance and service & maintenance.
For multiple installations, please secure enough space to enable removal of side face screws between units. (unit:mm)

(A) If there are obstacles at the intake

- If the upper part is open

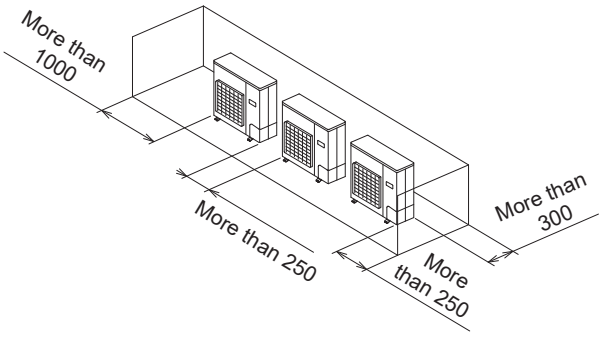
① For separate installation location

• Only if there are obstacles at the intake

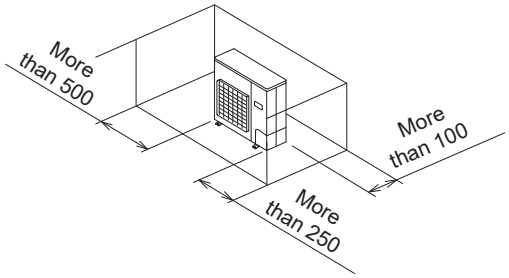


② For multiple units (more than 2 units)

• If there are obstacles on both sides



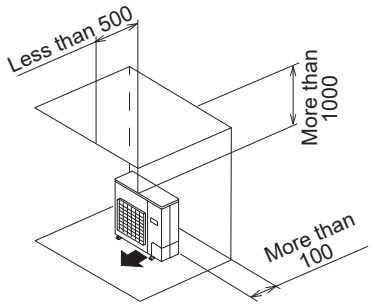
• If there are obstacles on both sides



- If there are obstacles above the unit

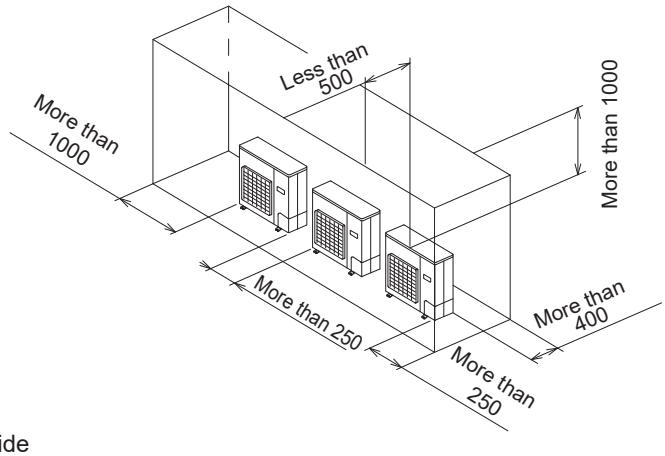
① For separate installation location

• Only if there are obstacles at the intake

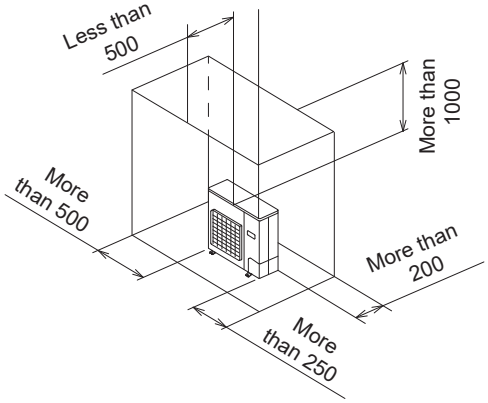


② For multiple units (more than 2 units)

• If there are obstacles on both sides



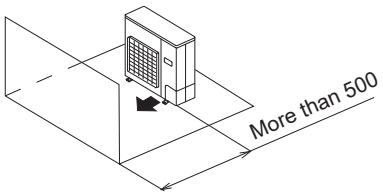
• If there are obstacles on the intake and the other side



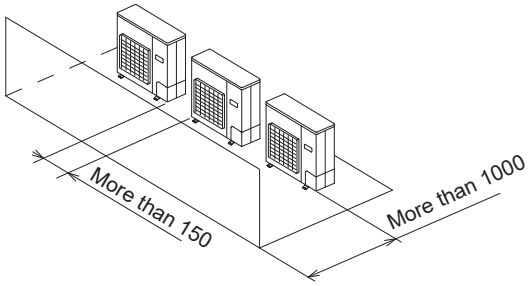
(B) If there are obstacles at the discharge

- If the upper part is open

① For separate installation location

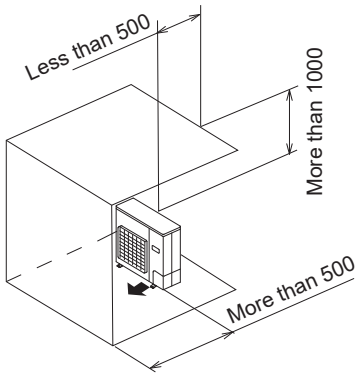


② For multiple units (more than 2 units)

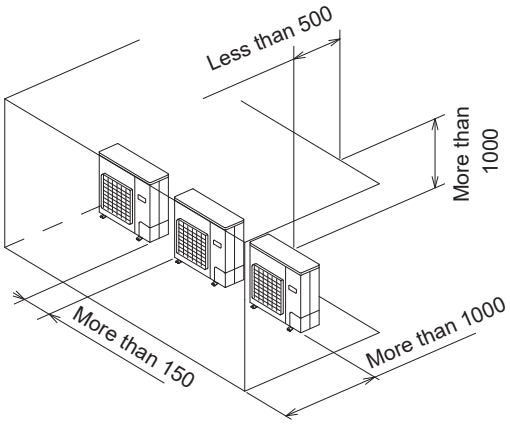


- If there are obstacles above the unit

① For separate installation location



② For multiple units (more than 2 units)

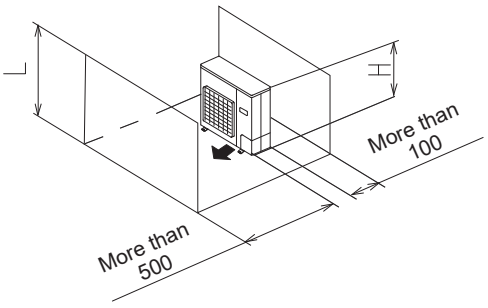


(C) If there are obstacles on both the intake and discharge

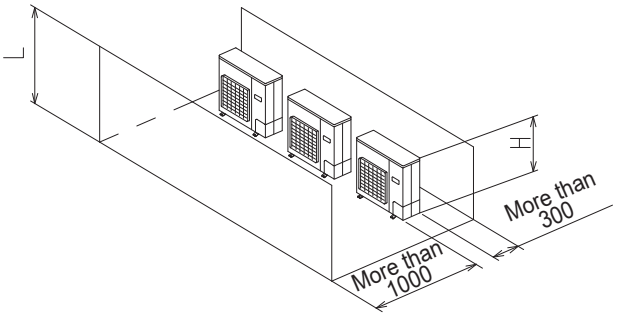
Pattern 1 If there is an obstacle that is higher than the unit on the intake side.
(There is no limit to the height of the obstacle above the discharge.)

- If the upper part is open

① For separate installation location



② For multiple units (more than 2 units)



L > H

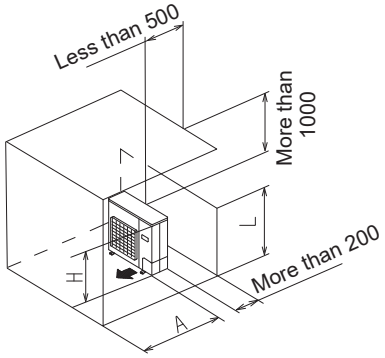
● If there are obstacles above the unit

① For separate installation location

• The dimensions for H, A and L are shown in the following table.

	L	A
L ≤ H	0 < L ≤ 1/2 H	500
	1/2H < L ≤ H	750
H < L	Install a pedestal or mount so that L ≤ H	

• Cover the bottom part of the pedestal or mount so that air does not go through it.



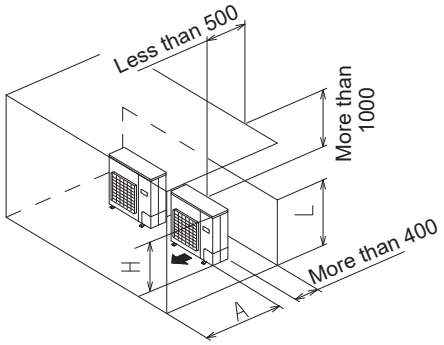
② For multiple units (up to 2 units)

• The dimensions for H, A and L are shown in the following table.

	L	A
L ≤ H	0 < L ≤ 1/2 H	1000
	1/2H < L ≤ H	1250
H < L	Install a pedestal or mount so that L ≤ H	

• Cover the bottom part of the pedestal or mount so that air does not bypass it.

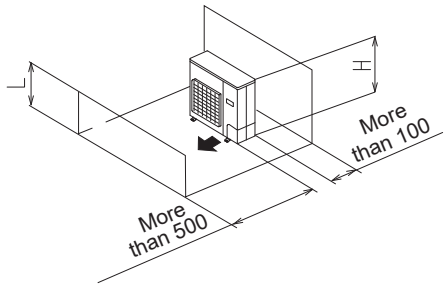
• A limit of only 2 units can be installed.



Pattern 2 If there is an obstacle that is higher than the unit on the discharge side. (There is no limit to the height of the obstacle ab

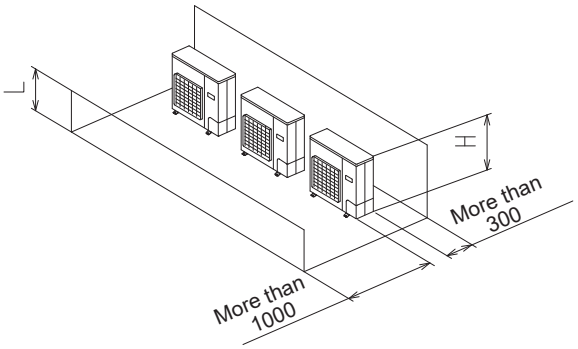
● If the upper part is open

① For separate installation location



L ≤ H

② For multiple units (more than 2 units)



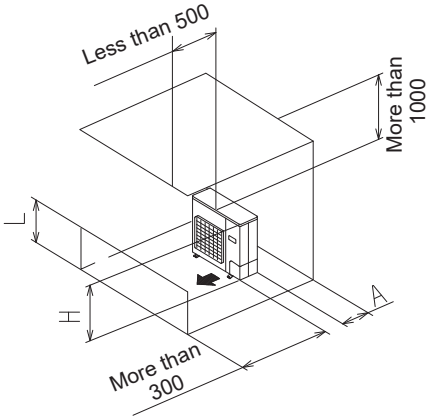
● If there are obstacles above the unit

① For separate installation location

• The dimensions for H, A and L are shown in the following table.

	A
L ≤ H	100
H < L	Install a pedestal or mount so that L ≤ H

• Cover the bottom part of the pedestal or mount so that air does not go through it.



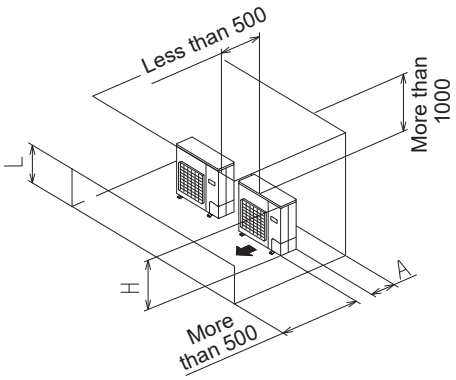
② For multiple units (up to 2 units)

• The dimensions for H, A and L are shown in the following table.

	A
L ≤ H	400
H < L	Install a pedestal or mount so that L ≤ H

• Cover the bottom part of the pedestal or mount so that air does not bypass it.

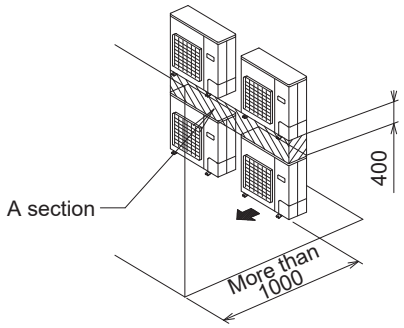
• A limit of only 2 units can be installed.



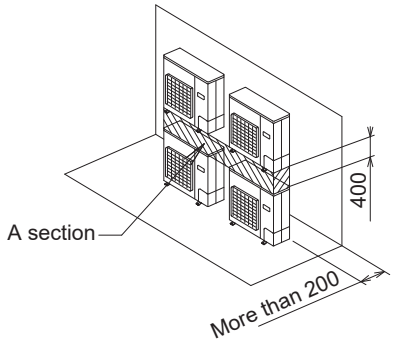
(D) Stacking installation setup

- Stack up to 2 tiers.
- A dimension of approximately 400 mm is required for the second tier outdoor unit's drain pipe and space for maintenance of the first tier outdoor unit.
- Close A section (the space between the upper and lower level outdoor units) so the outtake air does not bypass it.

① If there are obstacles at the discharge

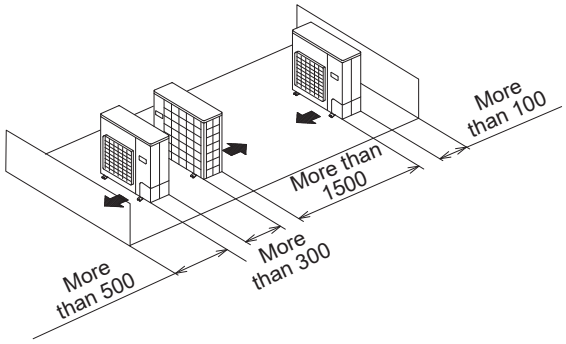


② If there are obstacles at the intake

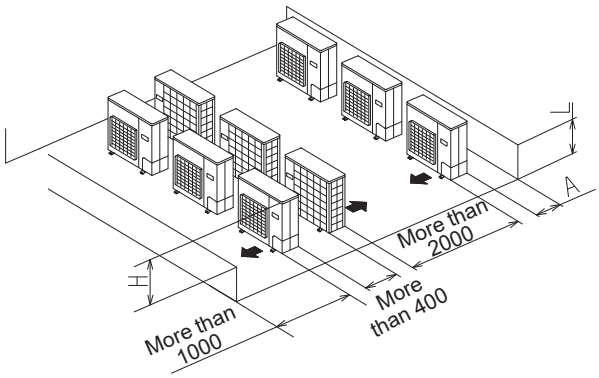


(E) For multiple row installation (on the roof, etc.)

① For one row installation setup



② For multiple units (more than 2 units)



- The dimensions for H, A and L are shown in the following table.

	A
L ≤ H	300
H < L	Installation not possible

- The above mentioned distance is required for optimal unit performance.
  Allow as much space as possible in order to obtain the best performance from the units.

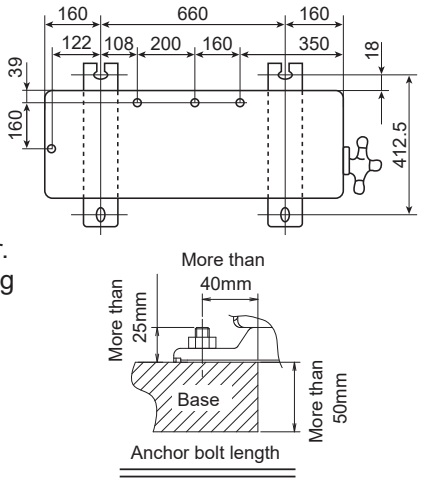
3. TRANSPORT AND INSTALL THE OUTDOOR UNIT

● Transporting

1. Transport the outdoor unit in its original packaging as close as possible to the installation location.
2. In the event that the unit needs to be lifted or suspended, use a rope or belt and use cloth or wood as padding to avoid damaging the unit.
3. Use the side handles to carry the unit and be careful not to touch the fan with your hand or any objects.

● Installation

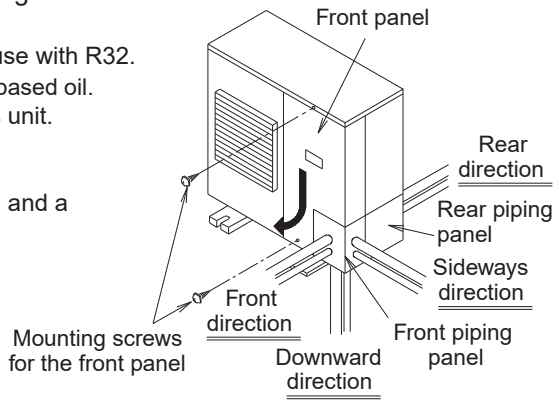
1. Read the “Select the outdoor unit installation location” thoroughly before installing the outdoor unit.
2. When installing to a concrete or solid surface, use M10 or a W 3/8 bolts and nuts to secure the unit. Ensure that it installed upright on a horizontal plane. (Use an anchor bolt for the installation as shown in the diagram below.)
3. Avoid installing on the slanted roof.
4. In the even where the roof is at risk of receiving oscillations or vibrations, secure the unit with a seismic isolating mount or vibration absorbing rubber.
5. The drain water will be discharged from the unit during heating or defrosting operation mode.
   Select an appropriate location with good drainage system. (In the winter, there is risk of slipping due to freezing, and depending on the installation set up there is risk of drain water running overhead.)
   ※ Please consult us if installing drain elbows.
   ※ In cold regions (where the outdoor temperature can drop to below 0˚ for 2 to 3 consecutive days), the drain water may freeze and may prevent the fan from operating. For this case, do not use the drain elbow.



4. REFRIGERANT INSTALLATION

For indoor unit refrigerant piping installation, see “■ HOW TO PROCESS TUBING” under 1-11-1. Installation Instructions of Indoor Unit.

1. Precautions during refrigerant installation.
   - Use clean pipes with no dust inside.
     The pipe may corrode with the presence of fluorine dust which will adversely affect the refrigerant piping system due to deterioration of the refrigerant oil, etc.
   - This unit is specifically for R32. Ensure to adhere to the following items and install accordingly:
     - Use pipe cutters and flaring tools which are specially designed for use with R32.
     - When connecting with flaring tools, coat the flare section with ether-based oil.
     - Ensure to use flare nuts supplied with the unit when connecting this unit.
     - Only for storing or for open pipes.
     - Set the lower limit of the allowable pipe length to 5m.
       If the pipe is shorter than 5m, the refrigerant may become overfilled and a problem such as abnormal high pressure could occur.
     - Carefully handle the liquid refrigerant, as it may cause a frostbite.
     - Do not release refrigerants during the piping works for installing, re-installing and repairing refrigeration parts.



Specification for pipe connecting indoor unit to outdoor unit.

			U-100PZ3E5 U-100PZ3E8	U-125PZ3E5, U-140PZ3E5 U-125PZ3E8, U-140PZ3E8	
Pipe outer diameter	Liquid	mm (in.)	9.52 (3/8)		
	Gas	mm (in.)	15.88 (5/8)		
Maximum pipe length		(m)	50		
Maximum elevation	Outdoor unit is placed higher	(m)	30		
	Outdoor unit is placed lower	(m)	15		
Charge-less pipe length		(m)	5~30		
Additional charge per 1 m		(g)	45		
Refrigerant charged at shipment		(kg)	2.40	2.80	2.80
Total refrigerant amount (Max. pipe length)		(kg)	3.30	3.70	3.70

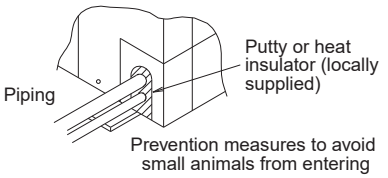
Remark: Do not overcharge.

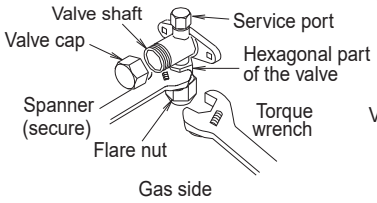
Piping Thickness:

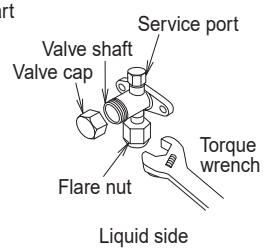
Size mm (in.)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)	Ø19.05 (3/4)
Thickness. mm	≥ 0.8	≥ 0.8	≥ 0.8	≥ 1.0	≥ 1.2
Material	Temper-O(Soft copper tube)				

Precautions when operating the 3-way valve for piping installation

- Do not open the 3-way valve until the piping installation is completed.
  - It is closed during shipment.
  - When removing or tightening the gas tube flare nut, use 2 adjustable wrenches together:
    one at the gas tube flare nut, and the other at hexagonal part of valve.
- See the following table for the tightening torque of the 3-way valve flare nuts.
  - If the nuts are over tightened, they may cause the flares to break or leak.
- Do not add additional force to the valve's cover.
  - Using spanners on the cover or valve itself (other than the hexagonal parts) may cause gas leakage.
    Avoid using spanners on the cover or parts other than the hexagonal part of the valve.



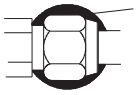




Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.

(Please use a single, open-end spanner to loosen and tighten the liquid side 3-way valve flare nut.)



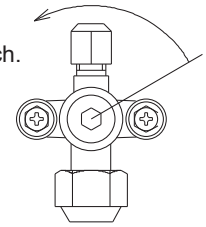
Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

		Tightening torque (approx.)
Valve cap (Valve size)	ø9.52 (Liquid Side)	20.6N•m~28.4N•m (206kgf•cm~284kgf•cm)
	ø15.88 (Gas Side)	48.0N•m~59.8N•m (480kgf•cm~598kgf•cm)
Service port		10.7N•m~14.7N•m (107kgf•cm~147kgf•cm)

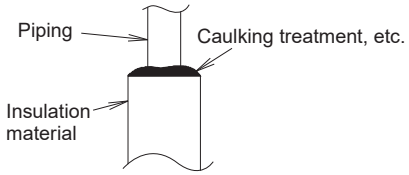
[3-way valve operation method]

- Use an Allen wrench.
  Direction to open



Opening : Open the cover and turn the Allen wrench counter-clockwise until it stops.

Closing : Open the cover and turn the Allen wrench clockwise until it stops.



Precautions for handling the valve cap

- Ensure not to scratch the inner surface of the valve or the end of the valve shaft.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for handling the service ports

- Use a push-rod with a charge hose.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for connecting the pipes

- For proper connection, align the union and flare straight with each other.
- Ensure that the pipes do not come into contact with the compressor's bolts or exterior panel.
- There is a risk of condensation from the 3-way valve coming out between the insulation material and the indoor unit's piping when you install the outdoor unit above then the indoor unit. Ensure to caulk the connection parts.

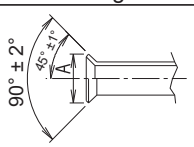
Precautions for insulation installation

Maximum temperature limit of gas or liquid piping is 120 °C

- In high humidity environment, reinforce the insulation material for the refrigerant piping. Failure to do so may result in condensation on the surface of the insulation material.
- Use materials with good heat-resistant properties as the heat insulator for the pipes. Ensure to insulate both the gas side and liquid side pipes.
  If the pipes are not adequately insulated, condensation and water leakages may occur.
- Ensure that the current insulation covers the pipes up to the unit's connecting part.
  If the piping is exposed, it may cause condensation or burn (when touch the pipe).

Precautions for flare nut installation

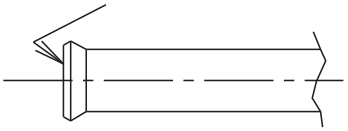
- Dimensions when adding flare nuts and the tightening torque

Piping size	Tightening torque (approx.)	Flare section dimensions A	Flare configuration
ø 6.35	18.0 N•m (180 kgf•cm)	8.7 ~ 9.1 mm	
ø 9.52	42.0 N•m (420 kgf•cm)	12.8 ~ 13.2 mm	
ø 12.7	55.0 N•m (550 kgf•cm)	16.2 ~ 16.6 mm	
ø 15.88	65.0 N•m (650 kgf•cm)	19.3 ~ 19.7 mm	

After piping connection has completed, ensure there is no gas leakage.

- When tightening the flare nut, coat the flares (inner surface only) with refrigerant oil on the flares Firstly, screw in 3-4 turns by hand.
  ※ Ensure not to get oil on the screw part.
  Refrigerant oil used is ether-based.
- Once the piping connections are completed, perform leakage inspection using nitrogen gas.
- When flared joints are reused, the flare part shall be re-fabricated.

Application for ether-based oil



INCASE OF REUSING EXISTING REFRIGERANT PIPING

※ **Observe the followings to decide reusing the existing refrigerant piping.**
Poor refrigerant piping could result in product failure.

- In the circumstances listed below, do not reuse any refrigerant piping. Instead, make sure to install a new piping.
  - Heat insulation is not provided for either liquid-side or gas-side piping or both.
  - The existing refrigerant pipe has been left in an open condition.
  - The diameter and thickness of the existing refrigerant piping does not meet the requirement. (See above tables)
  - The piping length and elevation does not meet the requirement. (See above tables)
  - Use only R32 or R410A genuine branch pipe.
- Perform proper pump down for operated product before reuse piping.
- In the circumstances listed below, clean it thoroughly before reuse.
  - Pump down operation cannot be performed for the existing air conditioner.
  - The compressor has a failure history.
  - Oil color is darken. (ASTM 4.0 and above)
  - The existing air conditioner is gas/oil heat pump type.
- Do not reuse the flare to prevent gas leak. Make sure to install a new flare.
- If there is a welded part on the existing refrigerant piping, conduct a gas leak check on the welded part.
- Replace deteriorated heat insulating material with a new one. Heat insulating material is required for both liquid-side and gas-side piping.

Reusing existing piping

	U-100PZ3E5, U-125PZ3E5, U-140PZ3E5 U-100PZ3E8, U-125PZ3E8, U-140PZ3E8							
Liquid pipe	Ø6.35			Ø9.52			Ø12.70	
Gas pipe	Ø9.52	Ø12.70	Ø15.88	Ø12.70	Ø15.88	Ø19.05	Ø15.88	Ø19.05
Maximum pipe length (m)	×	×	×	×	50	50	25	25
Charge-less pipe length (m)	×	×	×	×	5 ~ 30	5 ~ 30	5 ~ 15	5 ~ 15
Additional charge per 1m	×			45g/m			80g/m	

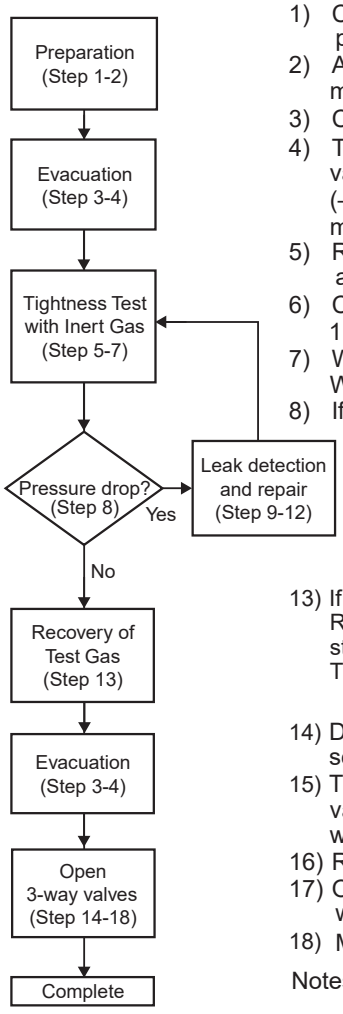
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5. AIR TIGHTNESS TEST ON THE REFRIGERATING SYSTEM

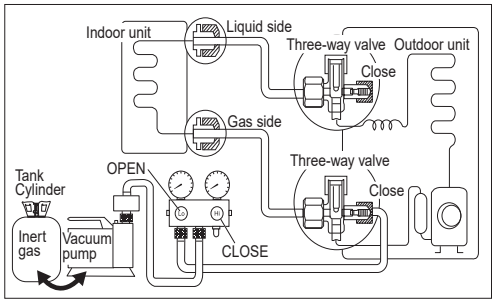
AIR PURGING METHOD IS PROHIBITED FOR R32 SYSTEM

Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation.
There is no extra refrigerant in the outdoor unit for air purging.

- Before system is charged with refrigerant and before the refrigerating system is put into operation, below site test procedure procedure and acceptance criteria shall be vertified by the certified technicians, and/or the installer.
- Be sure to check whole system for gas leakage.



1) Connect a charging hose with a push pin to the Low side of a charging set and the service port of the 3-way valve.
2) Attach the gauge manifold set correctly and tightly. Make sure that both valves of the manifold gauge (low pressure and high pressure) is in close position.
3) Connect the center hose of the manifold gauge to a vacuum pump.
4) Turn on the power switch of the vacuum pump, then turn open the low side manifold gauge valve and make sure that the needle in the gauge moves from 0cmHg (0 MPa) to –76 cmHg (–0.1 MPa). This process continues for approximately ten minutes. Then close the low side manifold gauge valve.
5) Remove the vacuum pump from the centre hose and connect the center hose to cylinder of any applicable inert gas as test gas.
6) Charge test gas into the system and wait until the pressure within the system to reach min. 1.04MPa (10.4barg).
7) Wait and monitor the pressure reading on the gauges. Check if there is any pressure drop. Waiting time depends on the size of the system.
8) If there is any pressure drop, perform step 9-12. If there is no pressure drop, perform step 13.
9) Use Gas Leak Detector to check for leaks. Must use the detection equipment with a sensitivity of 5 grams per year of test gas or better.
10) Move the probe along the air conditioning system to check for leaks, and mark for repair.
11) Any leak detected and marked shall be repaired.
12) After repair, repeat evacuation steps 3-4 and tightness test steps 5-7. Check the pressure drop as in step 8.
13) If no leak,
Recover the test gas. Perform evacuation of steps 3-4.
Then proceed to step 14.



14) Disconnect the charging hose from the service port of the 3-way valve.
15) Tighten the service port caps of the 3-way valve at a torque of 18 N•m with a torque wrench.
16) Remove the valve caps of 3-way valve.
17) Open both of the valves, using a hexagonal wrench (4mm).
18) Mount back the valve caps onto the 3-way valve to complete this process.

Notes:
Recommended use of any of the following leak detector,
I) Universal Sniffer leak detector
II) Electronic halogen leak detector
III) Ultrasonic Leak Detector

6. REGARDING REFRIGERANT FILLING

Precautions during refrigerant filling

- Use tools that are designed specifically for R32, for pressure resistance and to prevent mixing impurities.
- Fill the refrigerant from the 3-way valve's service port on the liquid-side.

For filling and replacing all refrigerant (For refilling due to a leak)

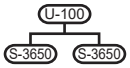
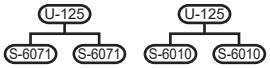
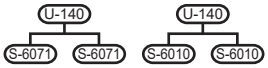
- For refilling refrigerant, first collect all residual refrigerant and after vacuum dehydration using the vacuum pump.
  Refill the refrigerant according to the prescribed amount stated on the placard affixed to this unit.

Precautions after the pipes' connection have completed

- Ensure to open the 3-way valve after completing the piping installation, leak test and vacuuming.
  If it is closed during operation, it can lead to compressor failure.

7. TWIN TYPE CONNECTIONS

- This unit cannot make triple or double twin connections.
- Two indoor units can be operated simultaneously with a single remote control unit. Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin system. No address setting is necessary.
- Applicable “TWIN” combination table.

	Outdoor unit	Type 100	Type 125	Type 140
TWIN	combination			

Piping Connections

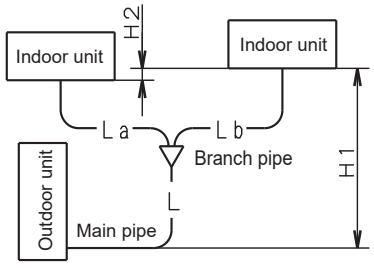
- The following table shows the pipe diameter.
  (Branch pipe kit should be used)

Outdoor unit main pipe diameter (mm)	Branch pipe diameter	Indoor unit combination	
		S-3650	S-6071, S-6010
Liquid side : ø9.52	Liquid side	ø6.35	ø9.52
Gas side : ø15.88	Gas side	ø12.7	ø15.88
Branch pipe kit (option)	TWIN	CZ-P155BK1	

- The following table shows the equivalent pipe lengths and height differences.

		SYMBOLS TWIN	SPEC
Total pipe length		L+La+Lb	Less than 50m
Maximum branch pipe length		La or Lb	Less than 15m
Maximum branch pipe length difference		La > Lb La - Lb	Less than 10m
Height difference	Outdoor located higher installation	H1	Less than 30m
	Outdoor located lower installation	H1	Less than 15m
Height difference between indoor units		H2	Less than 0.5m

- Use the main pipe to gain any rise or fall required for the pipes.
- The number of bends should be 8 or less in a single system, and 15 or less overall.
- Branch pipes should be positioned horizontally.



(TWIN type)

Refrigerant charging

- For the twin connection, the amount of refrigerant required for pipe length 30m has been included in this unit at the factory. No additional charge is required for the first 30m pipe length in the case of the twin connection.
  The amount of included refrigerant for each model is listed on NAME PLATE.
  Make additional charges by adding up pipe length in an order of main pipe (L) → branch pipe (La → Lb wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after 30m for twin connection) liquid side pipe diameter and pipe length from the right table.

Liquid pipe diameter	Addition amount of refrigerant [g/m]
ø6.35	20
ø9.52	45

1-11-2-3. U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

PRECAUTION FOR USING R32 REFRIGERANT

•The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. However, pay careful attention to the following points:

⚠ WARNING	
❗	The appliance shall be stored, installed and operated in a well ventilated room with indoor floor area larger than A_{min} (m^2) [see Check of Density Limit] and without any continuously operating ignition source. Keep away from open flames, any operating gas appliances or any operating electric heater. Else, it may explode and cause injury or death.
❗	The mixing of different refrigerants within a system is prohibited. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety. Therefore, check beforehand. [The charging port thread diameter for R32 and R410A is 12.7 mm (1/2 inch).]
❗	Ensure that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)
❗	Operation, maintenance, repairing and refrigerant recovery should be carried out by trained and certified personnel in the use of flammable refrigerants and as recommended by the manufacturer. Any personnel conducting an operation, servicing or maintenance on a system or associated parts of the equipment should be trained and certified.
❗	Any part of refrigerating circuit (evaporators, air coolers, AHU, condensers or liquid receivers) or piping should not be located in the proximity of heat sources, open flames, operating gas appliance or an operating electric heater.
❗	The user/owner or their authorized representative shall regularly check the alarms, mechanical ventilation and detectors, at least once a year, where as required by national regulations, to ensure their correct functioning.
❗	A logbook shall be maintained. The results of these checks shall be recorded in the logbook.
❗	In case of ventilations in occupied spaces shall be checked to confirm no obstruction.
❗	Before a new refrigerating system is put into service, the person responsible for placing the system in operation should ensure that trained and certified operating personnel are instructed on the basis of the instruction manual about the construction, supervision, operation and maintenance of the refrigerating system, as well as the safety measures to be observed, and the properties and handling of the refrigerant used.
❗	The general requirement of trained and certified personnel are indicated as below: a) Knowledge of legislation, regulations and standards relating to flammable refrigerants; and, b) Detailed knowledge of and skills in handling flammable refrigerants, personal protective equipment, refrigerant leakage prevention, handling of cylinders, charging, leak detection, recovery and disposal; and, c) Able to understand and to apply in practice the requirements in the national legislation, regulations and Standards; and, d) Continuously undergo regular and further training to maintain this expertise.
❗	Air-conditioner piping in the occupied space shall be installed in such a way to protect against accidental damage in operation and service.
❗	Precautions shall be taken to avoid excessive vibration or pulsation to refrigerating piping.
❗	Ensure protection devices, refrigerating piping and fittings are well protected against adverse environmental effects (such as the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris).
❗	Expansion and contraction of long runs piping in refrigerating systems shall be designed and installed securely (mounted and guarded) to minimize the likelihood hydraulic shock damaging the system.
❗	Protect the refrigerating system from accidental rupture due to moving furniture or reconstruction activities.
❗	To ensure no leaking, field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure (>1.04MPa, max 4.15MPa). No leak shall be detected.

⚠ CAUTION
1. General • Must ensure the installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending. • Must ensure that pipe-work shall be protected from physical damage. • Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations. • Must ensure mechanical connections be accessible for maintenance purposes. • In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction. • When disposal of the product, do follow to the precautions in #11 and comply with national regulations. • In case of field charge, the effect on refrigerant charge caused by the different pipe length has to be quantified, measured and labelled. Always contact to local municipal offices for proper handling. • Ensure the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed. • Ensure refrigerant charge not to leak. • Wear appropriate protective equipment, including respiratory protection, as conditions warrant. • Keep all sources of ignition and hot metal surfaces away.
2. Servicing 2-1. Qualification of workers • Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification. • Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. • Servicing shall be performed only as recommended by the manufacturer. • The system is inspected, regularly supervised and maintained by a trained and certified service personnel who is employed by the person user or party responsible.
2-2. Checks to the area • Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, the precautions in #2-3 to #2-7 must be followed before conducting work on the system.
2-3. Work procedure • Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.
2-4. General work area • All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out. • Avoid working in confined spaces. Always ensure away from source, at least 2 meter of safety distance, or zoning of free space area of at least 2 meter in radius.
2-5. Checking for presence of refrigerant • The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. • Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe. • In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release. • In case of leakage/spillage happened, do notify persons down wind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.
2-6. Presence of fire extinguisher • If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand. • Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

2-7. No ignition sources

- No person carrying out work in relation to a refrigerating system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. They must not be smoking when carrying out such work.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- “No Smoking” signs shall be displayed.

2-8. Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

2-9. Checks to the refrigerating equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer’s technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants.
  - The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
  - The ventilation machinery and outlets are operating adequately and are not obstructed.
  - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
  - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
  - Refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.

2-10. Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- Initial safety checks shall include but not limit to:-
  - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
  - That there is no live electrical components and wiring are exposed while charging, recovering or purging the system.
  - That there is continuity of earth bonding.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer’s technical department for assistance.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- The owner of the equipment must be informed or reported so all parties are advised thereinafter.

3.Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer’s specifications.

NOTE:
- The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment.
- In trinsically safe components do not have to be isolated prior to working on them.

4. Repair to intrinsically safe components
- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

5. Cabling
- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

6. Detection of flammable refrigerants
- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.
- The following leak detection methods are deemed acceptable for all refrigerant systems.
  - No leaks shall be detected when using detection equipment with a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure (>1.04MPa, max 4.15MPa) for example, a universal sniffer.
  - Electronic leak detectors may be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration.
    (Detection equipment shall be calibrated in a refrigerant-free area.)
  - Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
  - Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed.
  - Leak detection fluids are also suitable for use with most refrigerants, for example, bubble method and fluorescent method agents. The use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
  - If a leak is suspected, all naked flames shall be removed/extinguished.
  - If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. The precautions in #7 must be followed to remove the refrigerant.

7. Removal and evacuation
- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used.
  However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:

  • remove refrigerant -> • purge the circuit with inert gas -> • evacuate -> • purge with inert gas -> • open the circuit by cutting or brazing

- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be purged with OFN to render the appliance safe.
  (remark: OFN = Oxygen Free Nitrogen, type of inert gas)
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for this task.
- Purging shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and there is ventilation available.

8. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.
  - Ensure that contamination of different refrigerants does not occur when using charging equipment.
  - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
  - Cylinders shall be kept in an appropriate position according to the instructions.
  - Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
  - Label the system when charging is complete (if not already).
  - Extreme care shall be taken not to over fill the refrigerating system.
- Prior to recharging the system it shall be pressure tested with OFN (see #7).
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.
- Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

9. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.
- It is essential that electrical power is available before the task is commenced.
  a) Become familiar with the equipment and its operation.
  b) Isolate system electrically.
  c) Before attempting the procedure ensure that:
    - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
    - all personal protective equipment is available and being used correctly;
    - the recovery process is supervised at all times by a competent person;
    - recovery equipment and cylinders conform to the appropriate standards.

  d) Pump down refrigerant system, if possible.
  e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
  f) Make sure that cylinder is situated on the scales before recovery takes place.
  g) Start the recovery machine and operate in accordance with instructions.
  h) Do not over fill cylinders. (No more than 80% volume liquid charge).
  i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
  j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
  k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

10. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

11. Recovery
- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
  Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

■ Check of Density Limit

● Outdoor

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

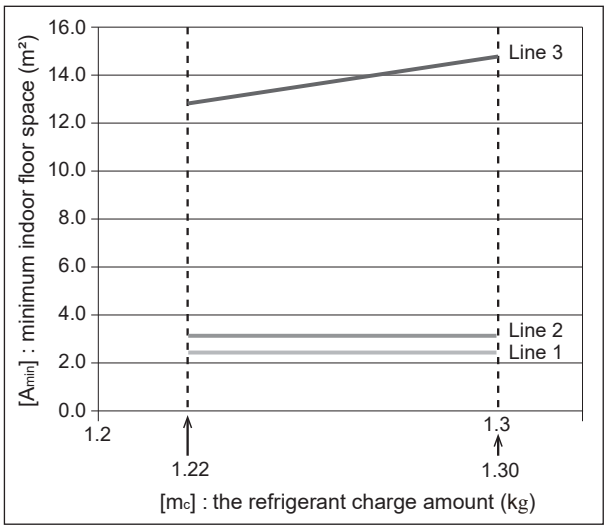


Table 1-11-2-3-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

$m_c \leq 1.22$: Can be installed
$1.22 < m_c \leq m_{max}$: Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-11-2-3-1 and below.
Fig. 1-11-2-3-1, Table 1-11-2-3-2.
Fig. 1-11-2-3-2, Table 1-11-2-3-4.
Fig. 1-11-2-3-3, Table 1-11-2-3-5.
Fig. 1-11-2-3-4, Table 1-11-2-3-6.
Fig. 1-11-2-3-5, Table 1-11-2-3-7.
$m_c > m_{max}$: Cannot be installed

	U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
m_{max} (kg)	1.28	1.28	1.30

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-3-19.

(conditions : U-60PZH3E5 Total pipe length = 40 m)

$$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 1.15\ kg + (0.015\ kg * (40\ m - 30\ m)) = 1.30\ kg$$

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

● **Indoor**

4-Way Cassette Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-3-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

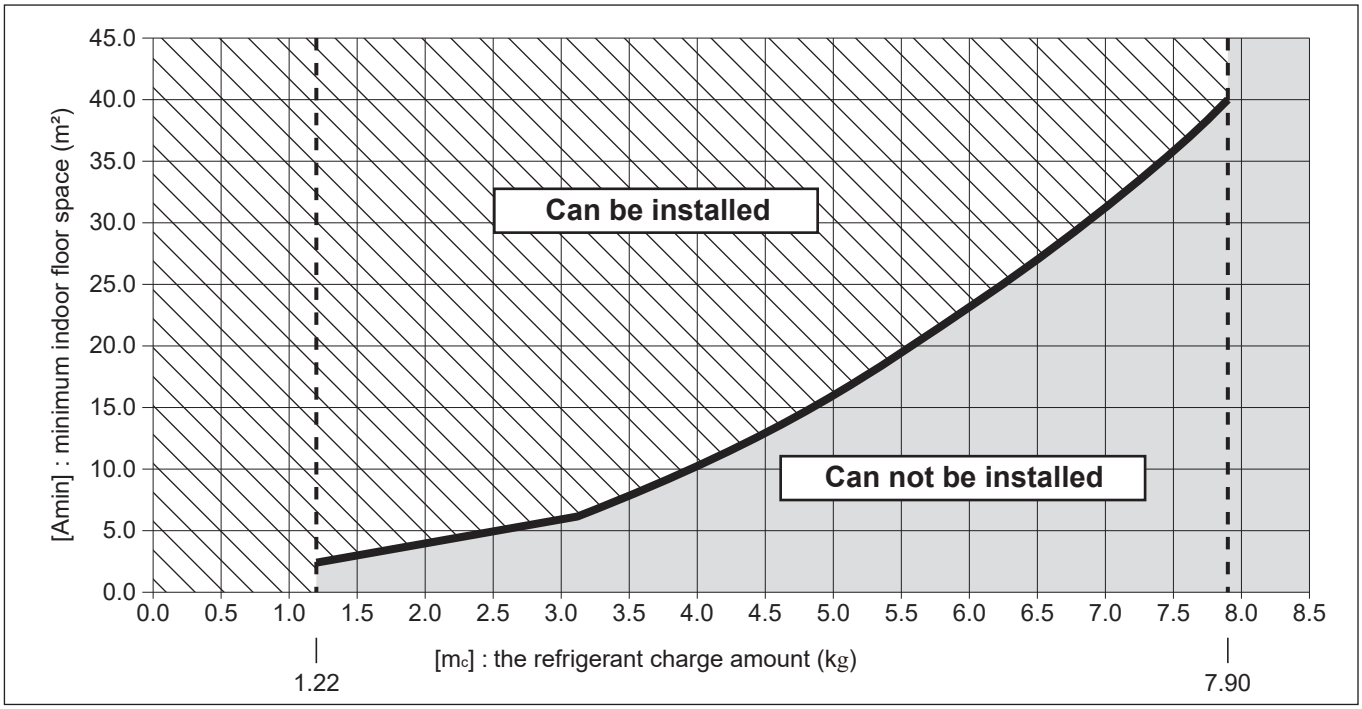


Fig. 1-11-2-3-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-3-2

[m_c]	[Amin]
1.22	2.5
1.3	2.6

Middle Static Pressure Duct Type

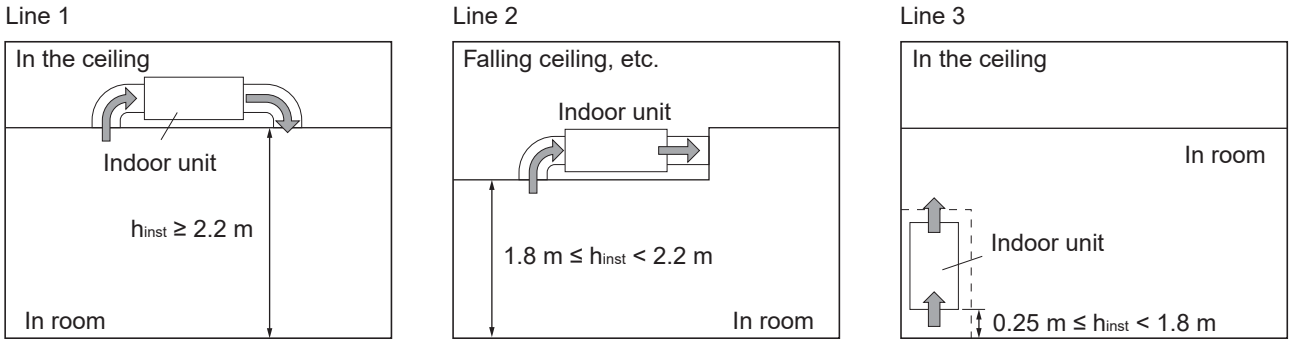
The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-3-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

Table 1-11-2-3-3

Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	Middle Static Pressure Duct (Horizontal installation)	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Middle Static Pressure Duct (Horizontal installation)	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct (Vertical installation)	Line 3



The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:
Use the graph or Table 1-11-2-3-4 to determine the minimum indoor floor space.

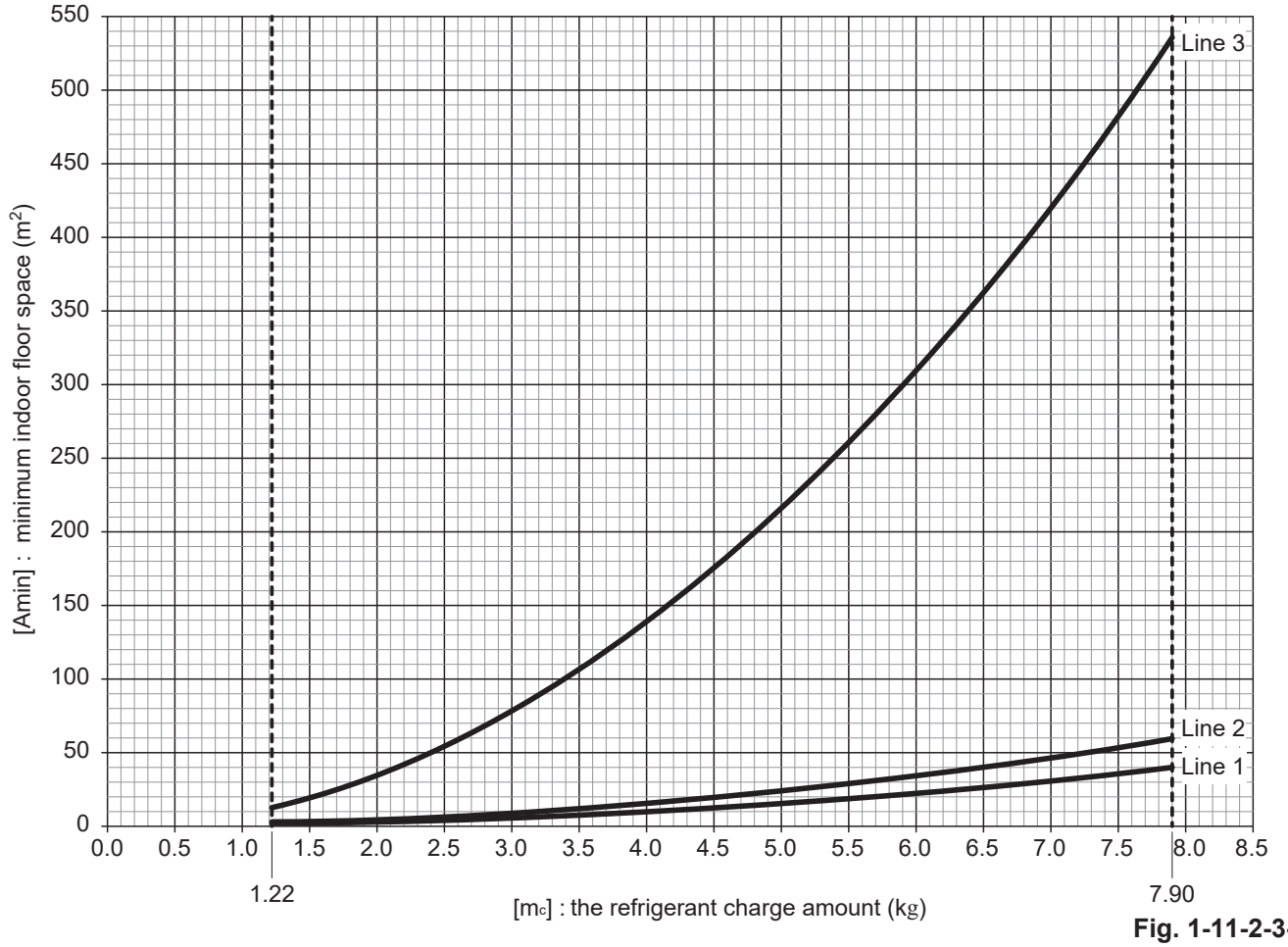


Fig. 1-11-2-3-2

Table 1-11-2-3-4

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
1.22	2.5	3.0	12.8
1.3	2.6	3.2	14.5

$m_c \leq 1.22$: Can be installed

$1.22 < m_c \leq m_{max}$: Can be installed above “Density Limit Line” *1

*1 See Table 1-11-2-3-3 and Fig. 1-11-2-3-2 of indoor unit when deciding “Density Limit Line”.

Wall Mounted Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-3-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

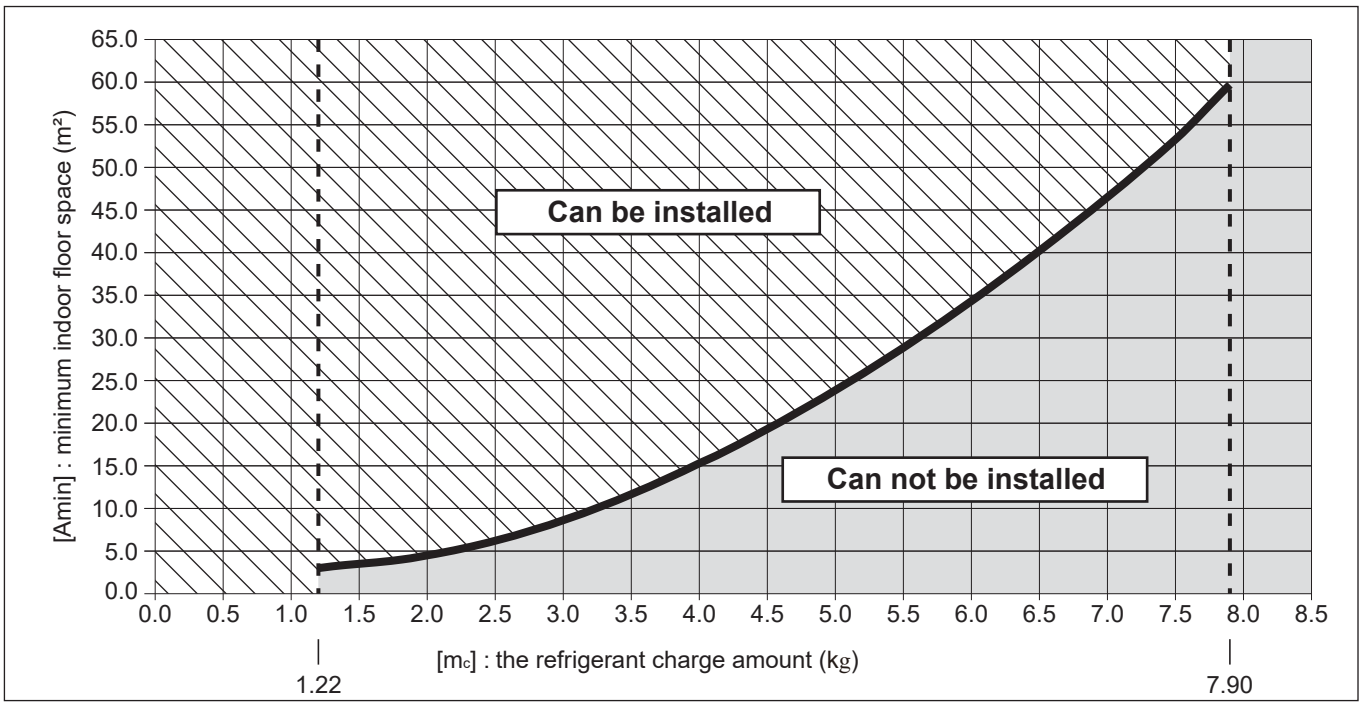


Fig. 1-11-2-3-3

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-3-5

[m_c]	[Amin]
1.22	3.0
1.3	3.2

Ceiling Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-3-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

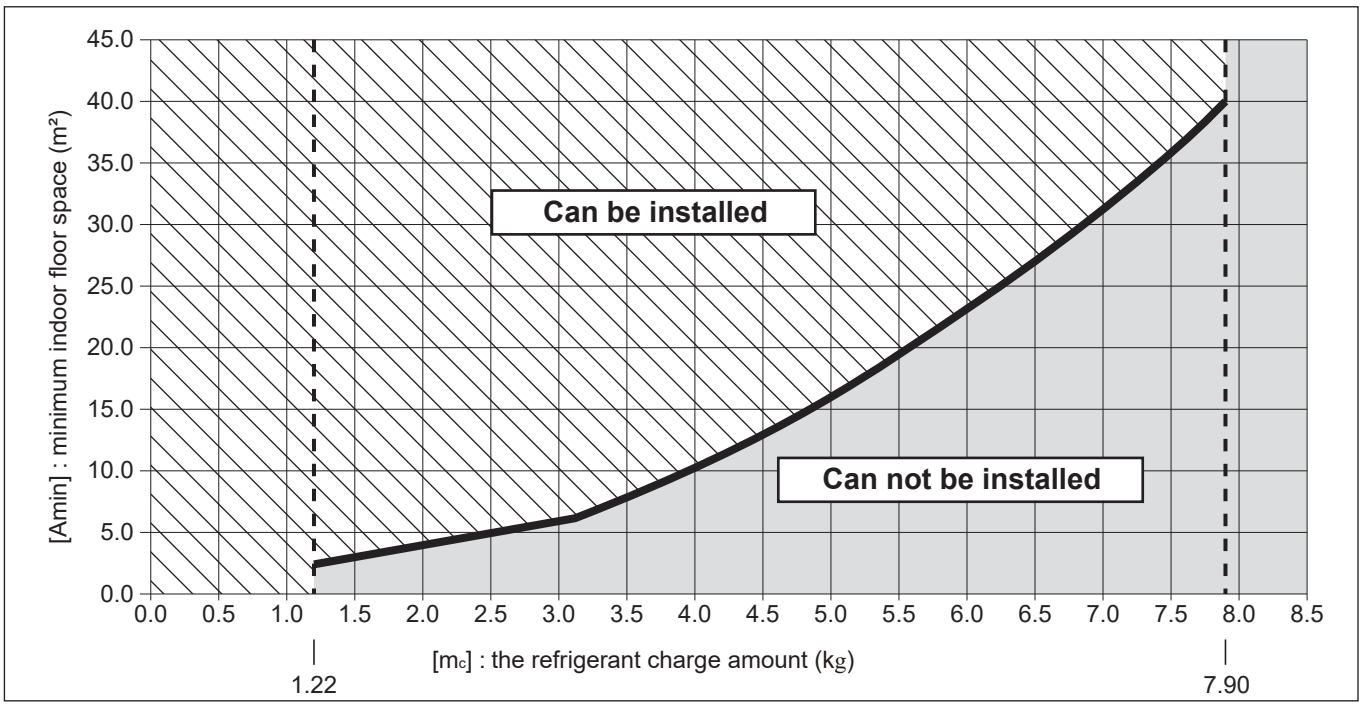


Fig. 1-11-2-3-4

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-3-6

[m_c]	[Amin]
1.22	2.5
1.3	2.6

4-Way Cassette 60 × 60 Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space in each room of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-3-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

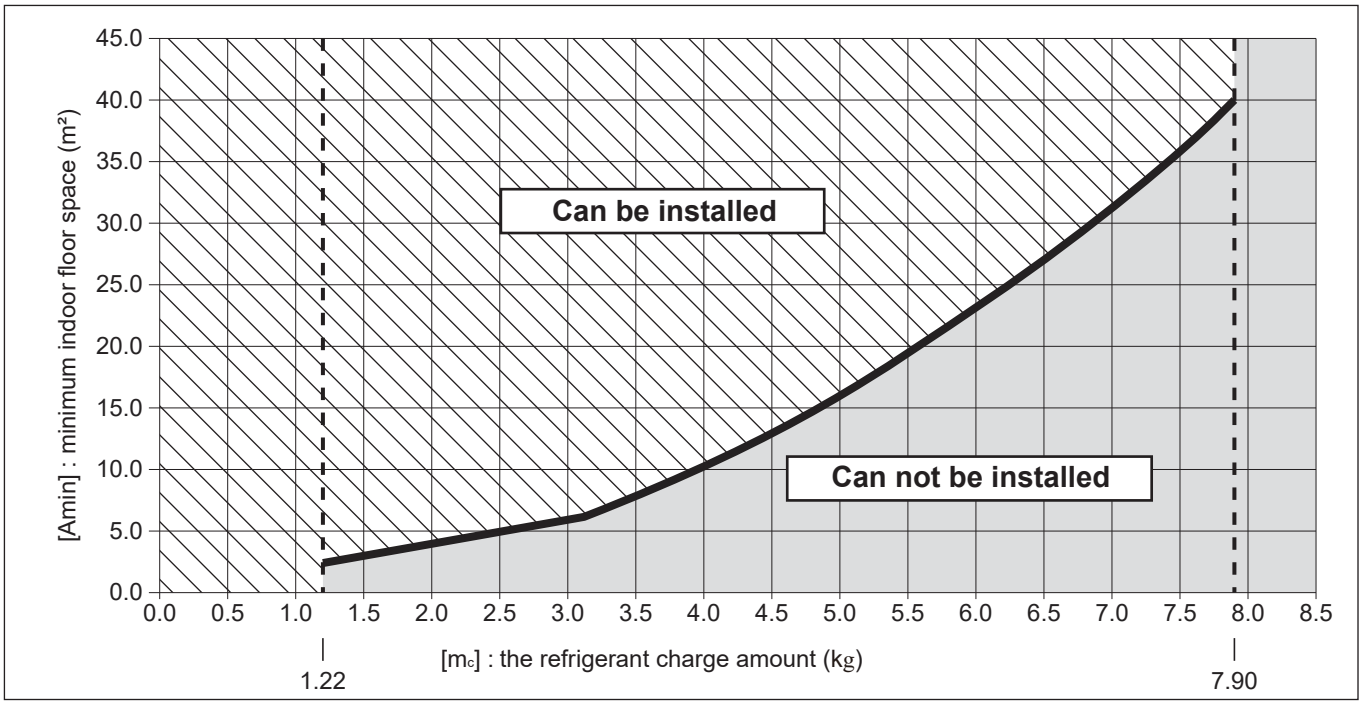


Fig. 1-11-2-3-5

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-3-7

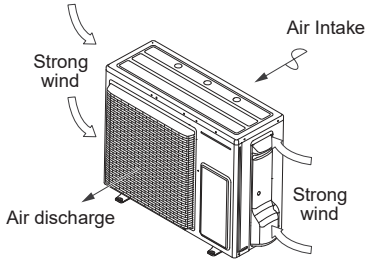
[m_c]	[Amin]
1.22	2.5
1.3	2.6

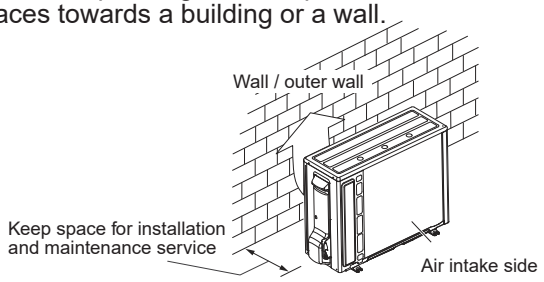
Please install according to 「Warning」「Caution」on page1-11-2-3-1 to 1-11-2-3-6.

1. SELECT THE OUTDOOR UNIT INSTALLATION LOCATION

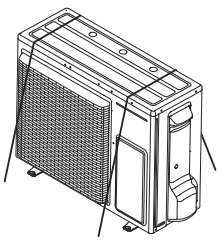
⚠ Warning	Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

1. Install the unit once you have checked that the installation location matches the following conditions.
   - A location with sufficient ventilation.
   - Possibly a location that is sheltered from rain or direct sunlight and is well-ventilated so that hot and cool air does not build up.
   - A location where the area around the discharge is not exposed to animals or plants which could adversely affect the release of hot or cool air from the unit.
   - A location where the discharge and operation noise will not be a nuisance to the neighbours.
   - A location that can support the product's weight or vibrations and secured for horizontal installation wherever possible.
   - A location that does not obstruct the air discharge or intake.
   - A location where there is no danger of flammable or corrosive gas leaks.
   - A location that provides space for installation and service.
   - A location that allows the pipe and cable length fixture for internal and external connections.
   - It may need two or more people to carry out the installation work.
2. See the diagram below for the installation location which is exposed to strong wind.
   - If a strong wind of more than 5 m/sec blows to the area directly in front of the discharge, the outdoor unit's air flow is reduced and the outflow may re-enter (short circuit) causing the following outcome: "Reduced capacity", "Increased frost formation during heating" or "Operation stopped due to increased pressure".
     Should an exceptionally strong wind blow to the area directly in front of the discharge of the outdoor unit; there is the risk of damage due to the fan's high-speed reverse rotation.
   - If the direction of the prevailing wind is known when operating the unit, place the unit at an appropriate angle to the wind's direction so that the discharge faces towards a building or a wall.





3. If installing at locations prone to snowfall, install the unit as high as possible with suitable roofing which shelters the unit from snow.
4. Avoid installing the unit in locations where there are petroleum products (such as machine oil), saline content (such as coastal areas), sulphurous gas and where high frequency noise is generated.
5. Place the indoor and outdoor unit, power cords and connection cable between outdoor and indoor unit at a minimum distance of 1 meter or more away from televisions and radios. This is to avoid interference to picture and/or sound. (However, depending on the electromagnetic waves, noise interference may still occur even with the 1 meter separation.)
6. For restaurants and kitchens, avoid installing at locations which draws oil and steam. Plastic parts can deteriorate from droplets of oil and steam or it can cause falling parts or water leakage.
7. Avoid installing at the location where cutting oil mist or iron powder is present.
8. If there is an immense voltage fluctuation due to the location's problem, ensure to split the power supply.



9. When installing the product in a place where it will be affected by typhoon or strong wind such as wind blowing between buildings, including the rooftop of a building and a place where there is no building in surroundings, fix the product with an overturn prevention wire, etc.
10. Ensure to assign several people or use a mechanical lift, etc. to transport the unit.

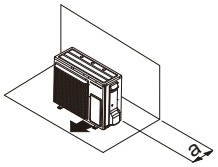
2. SELECTING THE LOCATION FOR INSTALLATION SERVICE

Please secure necessary space to guarantee performance and service & maintenance.
For multiple installations, please secure enough space to enable removal of side face screws between units. (unit:mm)

(A) When an obstruction is present on the air inlet side

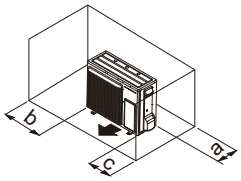
• When the upward area is open

(1) One outdoor unit installed individually
Obstruction only on air inlet side



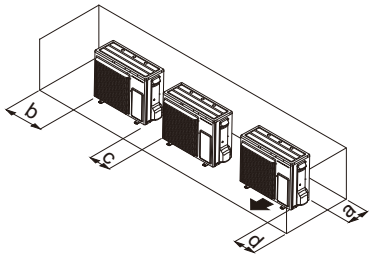
a	50 mm or more

Obstruction on both sides



a	50 mm or more
b	50 mm or more
c	250 mm or more

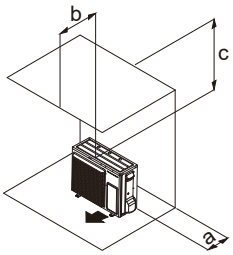
(2) Two or more outdoor units installed side by side
Obstructions on both sides



a	200 mm or more
b	150 mm or more
c	250 mm or more
d	250 mm or more

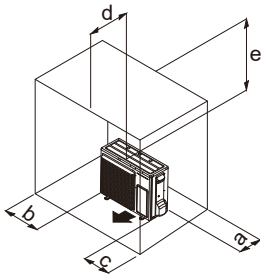
• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually
Obstruction only on air inlet side



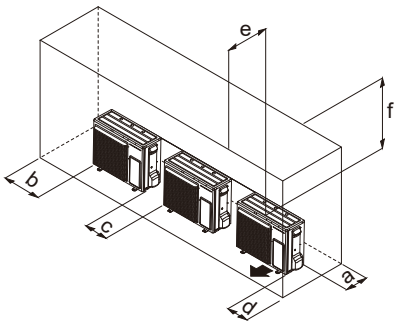
a	50 mm or more
b	500 mm or less
c	300 mm or more

Obstruction also on the air inlet side and both sides



a	50 mm or more
b	50 mm or more
c	250 mm or more
d	500 mm or less
e	1,000 mm or more

(2) Two or more outdoor units installed side by side
Obstruction also on the air inlet side and both sides

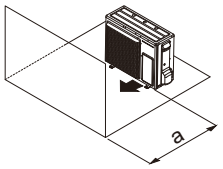


a	400 mm or more
b	1,000 mm or more
c	250 mm or more
d	250 mm or more
e	500 mm or less
f	1,000 mm or more

(B) When an obstruction is present on the air outlet side

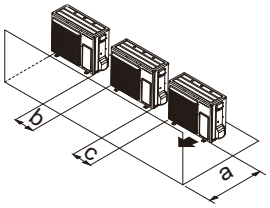
• When the upward area is open

(1) One outdoor unit installed individually



a	500 mm or more

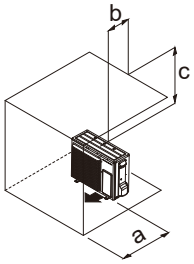
(2) Two or more units installed side by side



a	1,000 mm or more
b	250 mm or more
c	250 mm or more

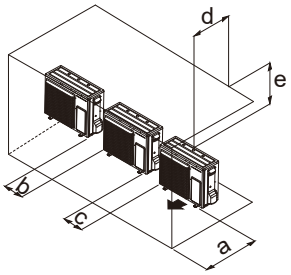
• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually



a	500 mm or more
b	500 mm or less
c	300 mm or more

(2) Two or more units installed side by side



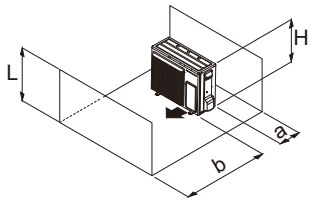
a	500 mm or more
b	250 mm or more
c	250 mm or more
d	500 mm or less
e	1,000 mm or more

(C) When an obstruction is present on both the air inlet and air outlet sides

Case 1: When an obstruction on the air outlet side is higher than the outdoor unit (L > H)
(There is no height restriction on the air inlet side.)

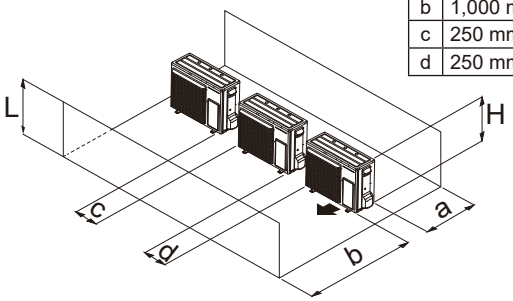
• When the upward area is open

(1) One outdoor unit installed individually



a	100 mm or more
b	500 mm or more

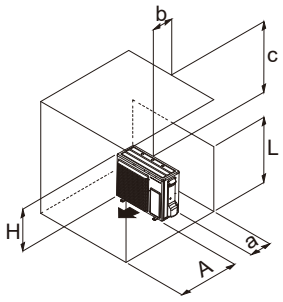
(2) Two or more units installed side by side



a	200 mm or more
b	1,000 mm or more
c	250 mm or more
d	250 mm or more

• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually



a	200 mm or more
b	500 mm or less
c	1,000 mm or more

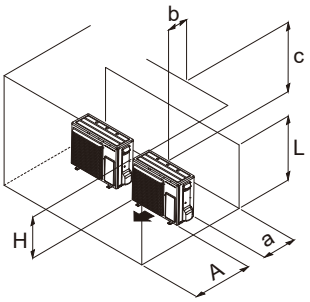
The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

	L	A
L ≤ H	0 < L ≤ 1/2H	300
	1/2H < L ≤ H	500
H < L	Install the frame to achieve L ≤ H.	

Close the area under the frame so that the outlet air does not bypass there.

(2) Only two outdoor units installed side by side



a	200 mm or more
b	500 mm or less
c	1,000 mm or more

The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

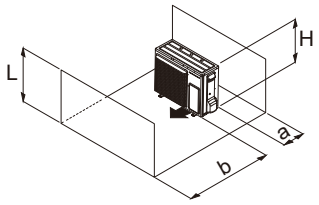
	L	A
L ≤ H	0 < L ≤ 1/2H	500
	1/2H < L ≤ H	750
H < L	Install the frame to achieve L ≤ H.	

Close the area under the frame so that the outlet air does not bypass there.
Only two outdoor units can be installed side by side.

Case 2: When an obstruction on the air outlet side is lower than the outdoor unit (L ≤ H)
(There is no height restriction on the air inlet side.)

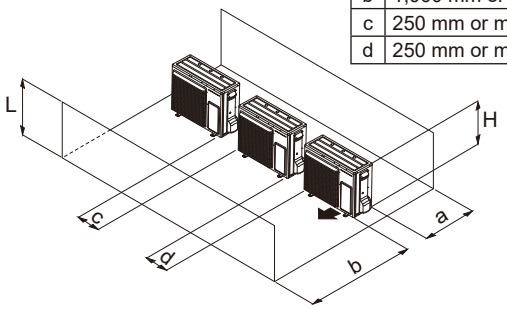
• When the upward area is open

(1) One outdoor unit installed individually



a	100 mm or more
b	500 mm or more

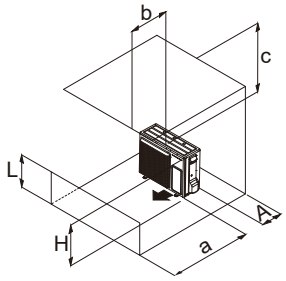
(2) Two or more units installed side by side



a	100 mm or more
b	1,000 mm or more
c	250 mm or more
d	250 mm or more

• When an obstruction is present also in the upward area

(1) One outdoor unit installed individually



a	500 mm or more
b	500 mm or less
c	1,000 mm or more

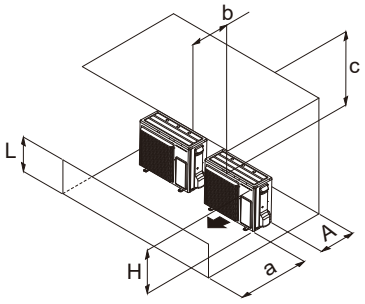
The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

	A
L ≤ H	200
H < L	Install the frame to achieve L ≤ H.

Close the area under the frame so that the outlet air does not bypass there.

(2) Only two outdoor units installed side by side



a	1,000 mm or more
b	500 mm or less
c	1,000 mm or more

The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

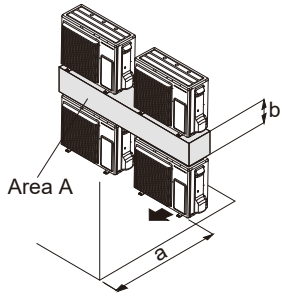
	A
L ≤ H	200
H < L	Install the frame to achieve L ≤ H.

Close the area under the frame so that the outlet air does not bypass there.
Only two outdoor units can be installed side by side.

(D) When outdoor units are stacked

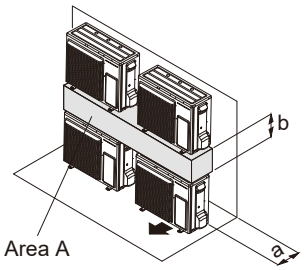
Only two outdoor units can be stacked.
For drain treatment, a space of at least 400 mm is required between the upper and lower outdoor units.
Close the area A (gap between the upper outdoor unit and lower outdoor unit) so that the outlet air does not bypass there.

(1) Obstruction on the air outlet side



a	500 mm or more
b	400 mm

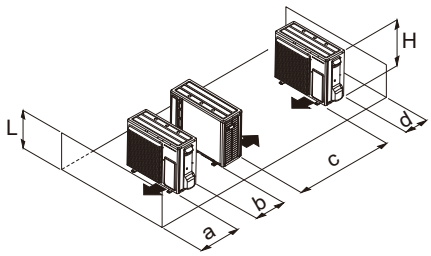
(2) Obstruction on the air inlet side



a	200 mm or more
b	400 mm

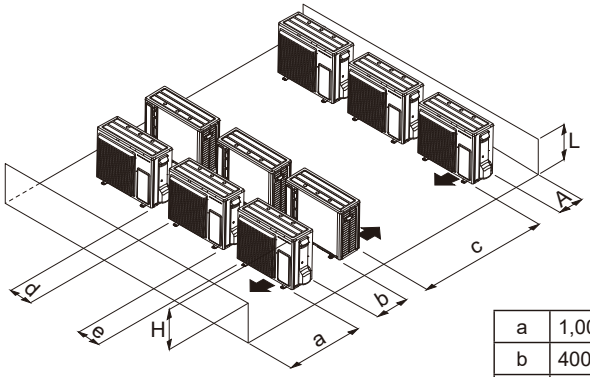
(E) When outdoor units are installed in rows, such as on a rooftop (L < H)

(1) One outdoor unit installed in each row



a	500 mm or more
b	300 mm or more
c	1,000 mm or more
d	50 mm or more

(2) Two or more units installed side by side.



a	1,000 mm or more
b	400 mm or more
c	2,000 mm or more
d	250 mm or more
e	250 mm or more

The dimensional relationship between H, A, and L is as shown in the following table.

Unit: mm

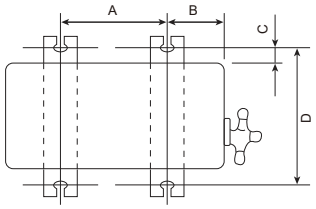
	A
L ≤ H	150
H < L	Installation is not allowed.

The values described above are the least space to optimize application performance.
If any service area is needed for service according to field circumstance, obtain enough service space.

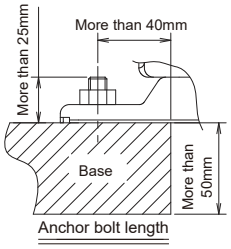
• The above mentioned distance is required for optimal unit performance.
Allow as much space as possible in order to obtain the best performance from the units.

3. TRANSPORT AND INSTALL THE OUTDOOR UNIT

- **Transporting**
  1. Transport the outdoor unit in its original packaging as close as possible to the installation location.
  2. In the event that the unit needs to be lifted or suspended, use a rope or belt and use cloth or wood as padding to avoid damaging the unit.
  3. Use the side handles to carry the unit and be careful not to touch the fin with your hand or any objects.
- **Installation**
  1. Read the “Select the outdoor unit installation location” thoroughly before installing the outdoor unit.
  2. When installing to a concrete or solid surface, use M10 or a W 3/8 bolts and nuts to secure the unit. Ensure that it installed upright on a horizontal plane. (Use an anchor bolt for the installation as shown in the diagram below.)
  3. Avoid installing on the slanted roof.
  4. In the event where the roof is at risk of receiving oscillations or vibrations, secure the unit with a seismic isolating mount or vibration absorbing rubber.
  5. The drain water will be discharged from the unit during heating or defrosting operation mode. Select an appropriate location with good drainage system. (In the winter, there is risk of slipping due to freezing, and depending on the installation set up there is risk of drain water running overhead.)
     ※ Please consult us if installing drain elbows.
     ※ In cold regions (where the outdoor temperature can drop to below 0˚ for 2 to 3 consecutive days), the drain water may freeze and may prevent the fan from operating. For this case, do not use the drain elbow.



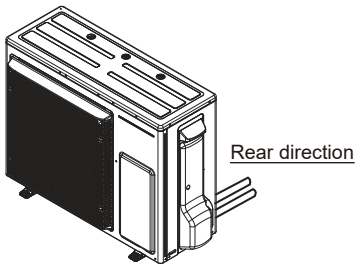
Model	A	B	C	D
U-36PZH3E5	613 mm	131 mm	24 mm	360.5 mm
U-50PZH3E5				
U-60PZH3E5				



4. REFRIGERANT INSTALLATION

For indoor unit refrigerant piping installation, see “■ HOW TO PROCESS TUBING” under 1-11-1. Installation Instructions of Indoor Unit.

1. Precautions during refrigerant installation.
   - Use clean pipes with no dust inside.
     The pipe may corrode with the presence of fluorine dust which will adversely affect the refrigerant piping system due to deterioration of the refrigerant oil, etc.
   - This unit is specifically for R32. Ensure to adhere to the following items and install accordingly:
     - Use pipe cutters and flaring tools which are specially designed for use with R32.
     - When connecting with flaring tools, coat the flare section with ether-based oil.
     - Ensure to use flare nuts supplied with the unit when connecting this unit.
     - Only for storing or for open pipes.
     - Set the lower limit of the allowable pipe length to 3m.
       If the pipe is shorter than 3m, the refrigerant may become overfilled and a problem such as abnormal high pressure could occur.
     - Carefully handle the liquid refrigerant, as it may cause a frostbite.
     - Do not release refrigerants during the piping works for installing, re-installing and repairing refrigeration parts.



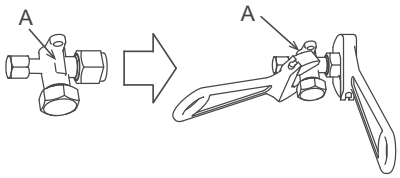
Specification for pipe connecting indoor unit to outdoor unit.

			U-36PZH3E5	U-50PZH3E5	U-60PZH3E5
Pipe outer diameter	Liquid	mm (in.)	6.35 (1/4)		
	Gas	mm (in.)	12.7 (1/2)		
Maximum pipe length		(m)	40		
Maximum elevation	Outdoor unit is placed higher	(m)	30		
	Outdoor unit is placed lower	(m)	15		
Charge-less pipe length		(m)	3 ~ 30		
Additional charge per 1 m		(g)	15		
Refrigerant charged at shipment		(kg)	1.13	1.13	1.15
Total refrigerant amount		(kg)	1.28	1.28	1.30

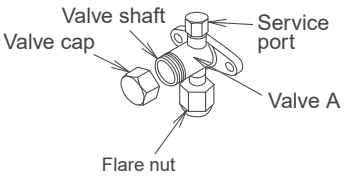
Piping Thickness:

Size mm (in.)	Ø6.35 (1/4)	Ø9.52 (3/8)	Ø12.7 (1/2)	Ø15.88 (5/8)
Thickness. mm	≥ 0.8	≥ 0.8	≥ 0.8	≥ 1.0

Precautions when operating the 2/3-way valve for piping installation

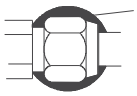


- Do not open the 2/3-way valve until the piping installation is completed.
  - It is closed during shipment.
  - When removing or tightening the gas tube flare nut, use 2 adjustable wrenches together:
    one at the gas tube flare nut, and the other at part A.
- See the following table for the tightening torque of the 2/3-way valve flare nuts.
  - If the nuts are over tightened, they may cause the flares to break or leak.
- Do not add additional force to the valve's cover.
  - Using spanners on the cover or valve itself (other than the hexagonal parts) may cause gas leakage.
    Avoid using spanners on the cover or parts other than the hexagonal part of the valve.



Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material. The joint should be sealed on both liquid and gas side.



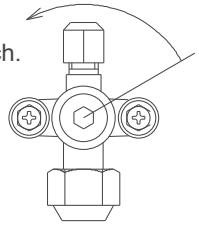
Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to stress corrosion on the joint and cause leakage.

		Tightening torque (approx.)
Valve cap (Valve size)	ø6.35 (1/4")	14N•m~18N•m (140kgf•cm~180kgf•cm)
	ø12.7 (1/2")	49N•m~55N•m (490kgf•cm~550kgf•cm)
	ø15.88	48.0N•m~59.8N•m (480kgf•cm~598kgf•cm)
Service port		10.7N•m~14.7N•m (107kgf•cm~147kgf•cm)

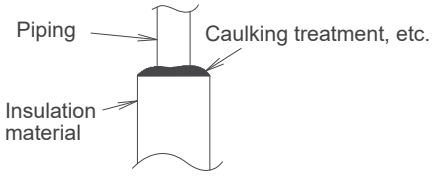
[3-way valve operation method]

- Use an Allen wrench.
  Direction to open



Opening : Open the cover and turn the Allen wrench counter-clockwise until it stops.

Closing : Open the cover and turn the Allen wrench clockwise until it stops.



Precautions for handling the valve cap

- Ensure not to scratch the inner surface of the valve or the end of the valve shaft.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for handling the service ports

- Use a push-rod with a charge hose.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for connecting the pipes

- For proper connection, align the union and flare straight with each other.
- Ensure that the pipes do not come into contact with the compressor's bolts or exterior panel.
- There is a risk of condensation from the 3-way valve coming out between the insulation material and the indoor unit's piping when you install the outdoor unit above then the indoor unit. Ensure to caulk the connection parts.

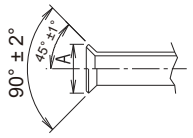
Precautions for insulation installation

Maximum temperature limit of gas or liquid piping is 120 °C

- In high humidity environment, reinforce the insulation material for the refrigerant piping. Failure to do so may result in condensation on the surface of the insulation material.
- Use materials with good heat-resistant properties as the heat insulator for the pipes. Ensure to insulate both the gas side and liquid side pipes.
  If the pipes are not adequately insulated, condensation and water leakages may occur.
- Ensure that the current insulation covers the pipes up to the unit's connecting part.
  If the piping is exposed, it may cause condensation or burn (when touch the pipe).

Precautions for are nut installation

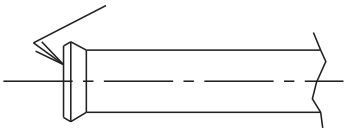
- Dimensions when adding flare nuts and the tightening torque

Piping size	Tightening torque (approx.)	Flare section dimensions A	Flare configuration
ø 6.35	18.0 N•m (180kgf•cm)	8.7 ~ 9.1 mm	
ø 9.52	42.0 N•m (420kgf•cm)	12.8 ~ 13.2 mm	
ø 12.7	55.0 N•m (550kgf•cm)	16.2 ~ 16.6 mm	
ø 15.88	65.0 N•m (650kgf•cm)	19.3 ~ 19.7 mm	

After piping connection has completed, ensure there is no gas leakage.

- When tightening the flare nut, coat the flares (inner surface only) with refrigerant oil on the flares Firstly, screw in 3-4 turns by hand.
  ※ Ensure not to get oil on the screw part.
  Refrigerant oil used is ether-based.
- Once the piping connections are completed, perform leakage inspection using nitrogen gas.
- When flared joints are reused, the flare part shall be re-fabricated.

Application for ether-based oil



INCASE OF REUSING EXISTING REFRIGERANT PIPING

※ **Observe the followings to decide reusing the existing refrigerant piping.**
Poor refrigerant piping could result in product failure.

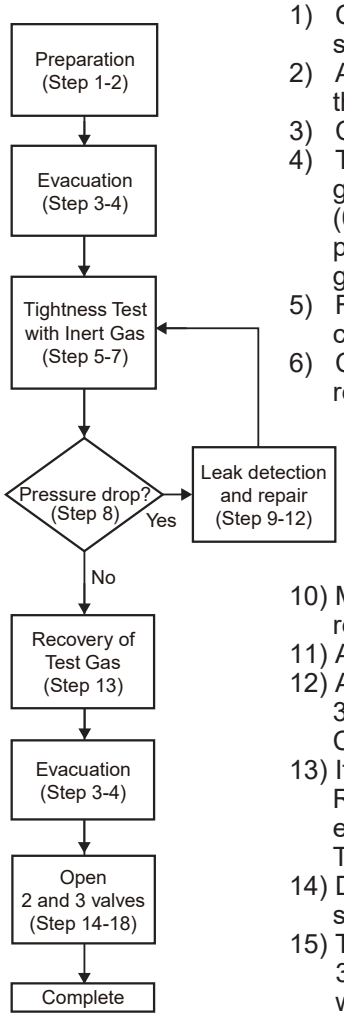
- In the circumstances listed below, do not reuse any refrigerant piping. Instead, make sure to install a new piping.
  - Heat insulation is not provided for either liquid-side or gas-side piping or both.
  - The existing refrigerant pipe has been left in an open condition.
  - The diameter and thickness of the existing refrigerant piping does not meet the requirement. (See above tables)
  - The piping length and elevation does not meet the requirement. (See above tables)
  - Use only R32 or R410A genuine branch pipe.
- Perform proper pump down for operated product before reuse piping.
- In the circumstances listed below, clean it thoroughly before reuse.
  - Pump down operation cannot be performed for the existing air conditioner.
  - The compressor has a failure history.
  - Oil color is darken. (ASTM 4.0 and above)
  - The existing air conditioner is gas/oil heat pump type.
- Do not reuse the flare to prevent gas leak. Make sure to install a new flare.
- If there is a welded part on the existing refrigerant piping, conduct a gas leak check on the welded part.
- Replace deteriorated heat insulating material with a new one. Heat insulating material is required for both liquid-side and gas-side piping.

5. AIR TIGHTNESS TEST ON THE REFRIGERATING SYSTEM

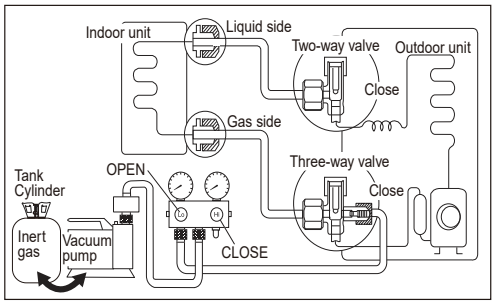
AIR PURGING METHOD IS PROHIBITED FOR R32 SYSTEM

⃠ Do not purge the air with refrigerants but use a vacuum pump to vacuum the installation.
❗ There is no extra refrigerant in the outdoor unit for air purging.

- Before system is charged with refrigerant and before the refrigerating system is put into operation, below site test procedure and acceptance criteria shall be vertified by the certified technicians, and/or the installer.
- Be sure to check whole system for gas leakage.



1) Connect a charging hose with a push pin to the Low side of a charging set and the service port of the 3-way valve.
2) Attach the gauge manifold set correctly and tightly. Make sure that both valves of the manifold gauge (low pressure and high pressure) is in close position.
3) Connect the center hose of the manifold gauge to a vacuum pump.
4) Turn on the power switch of the vacuum pump, then turn open the low side manifold gauge valve and make sure that the needle in the gauge moves from 0cmHg (0 MPa) to –76 cmHg (–0.1 MPa) or vacuum until 500 microns is achieved. This process continues for approximately ten minutes. Then close the low side manifold gauge valve.
5) Remove the vacuum pump from the centre hose and connect the center hose to cylinder of any applicable inert gas as test gas.
6) Charge test gas into the system and wait until the pressure within the system to reach min. 1.04MPa (10.4barg).
7) Wait and monitor the pressure reading on the gauges. Check if there is any pressure drop. Waiting time depends on the size of the system.
8) If there is any pressure drop, perform step 9-12. If there is no pressure drop, perform step 13.
9) Use Gas Leak Detector to check for leaks. Must use the detection equipment with a sensitivity of 5 grams per year of test gas or better.
10) Move the probe along the air conditioning system to check for leaks, and mark for repair.
11) Any leak detected and marked shall be repaired.
12) After repair, repeat evacuation steps 3-4 and tightness test steps 5-7. Check the pressure drop as in step 8.
13) If no leak, Recover the test gas. Perform evacuation of steps 3-4. Then proceed to step 14.
14) Disconnect the charging hose from the service port of the 3-way valve.
15) Tighten the service port caps of the 3-way valve at a torque of 18 N•m with a torque wrench.



16) Remove the valve caps of both of the 2-way valve and 3-way valve.
17) Open both of the valves, using a hexagonal wrench (4mm).It is recommended to allow refrigerant slowly flow into the refrigerant system to prevent refrigerant freezing. Slightly open 2-way valve for 5 seconds then close the valve. Repeat this action for 3 cycles then fully open the valve.
18) Mount back the valve caps onto the 2-way valve and the 3-way valve to complete this process.

Notes:

Recommended use of any of the following leak detector,
I) Universal Sniffer leak detector
II) Electronic halogen leak detector
III) Ultrasonic Leak Detector

6. REGARDING REFRIGERANT FILLING

Precautions during refrigerant filling

- Use tools that are designed specifically for R32, for pressure resistance and to prevent mixing impurities.
- Fill the refrigerant from the 3-way valve's service port on the liquid-side.

For filling and replacing all refrigerant (For refilling due to a leak)

- For refilling refrigerant, first collect all residual refrigerant and after vacuum dehydration using the vacuum pump.
  Refill the refrigerant according to the prescribed amount stated on the placard affixed to this unit.

Precautions after the pipes' connection have completed

- Ensure to open the 3-way valve after completing the piping installation, leak test and vacuuming.
  If it is closed during operation, it can lead to compressor failure.

1-11-2-4. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

PRECAUTION FOR USING R32 REFRIGERANT

•The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. However, pay careful attention to the following points:

	⚠ WARNING
❗	Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special.
❗	Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety. Therefore, check beforehand.
❗	Be more careful than R22 so that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc. (Handling of R32 is similar to R410A.)
	⚠ CAUTION
❗	1. General • That the installation of pipe-work shall be kept to a minimum. • Must ensure that pipe-work shall be protected from physical damage. • That compliance with national gas regulations shall be observed. • Must ensure mechanical connections be accessible for maintenance purposes. • In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction. • When disposal of the product, do follow to the precautions in #11 and comply with national regulations. Always contact to local municipal offices for proper handling. • In case of field charge, the effect on refrigerant charge caused by the different pipe length has to be quantified, measured and labelled.
❗	2. Servicing 2-1. Qualification of workers • Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognised assessment specification. • Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. • Servicing shall be performed only as recommended by the manufacturer.
❗	2-2. Checks to the area • Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, #2-3 to #2-8 shall be completed prior to conducting work on the system.
❗	2-3. Work procedure • Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

2-4. General work area

- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.
- Work in confined spaces shall be avoided.
- The area around the workspace shall be sectioned off.
- Ensure that the conditions within the area have been made safe by control of flammable material.

2-5. Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerating detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

2-6. Presence of fire extinguisher

- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand.
- Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

2-7. No ignition sources

- No person carrying out work in relation to a refrigerating system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- “No Smoking” signs shall be displayed.

2-8.Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

2-9. Checks to the refrigerating equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer’s maintenance and service guidelines shall be followed.
- If in doubt, consult the manufacturer’s technical department for assistance.
  - The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed;
  - The ventilation machinery and outlets are operating adequately and are not obstructed;
  - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
  - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

2-10. Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
  - That no live electrical components and wiring are exposed while charging, recovering or purging the system;
  - That there is continuity of earth bonding.

3. Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

4. Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer.
- Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

NOTE: The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment.
Intrinsically safe components do not have to be isolated prior to working on them.

5. Cabling

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

6. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.
- Electronic leak detectors may be used to detect refrigerant leaks but, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25% maximum) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.
  For appliances containing flammable refrigerants, Oxygen Free Nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

7. Removal and evacuation
- When breaking into the refrigerant circuit to make repairs - or for any other purpose - conventional procedures shall be used.
  However, it is important that best practice is followed since flammability is a consideration.
  The following procedure shall be adhered to:
  - remove refrigerant;
  - purge the circuit with inert gas;
  - evacuate;
  - purge again with inert gas;
  - open the circuit by cutting or brazing.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be “flushed” with OFN to render the unit safe. This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for purging refrigerant systems.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe-work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

8. Charging procedures
- In addition to conventional charging procedures, the following requirements shall be followed.
  - Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
  - Cylinders shall be kept in an appropriate position according to the instructions.
  - Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
  - Label the system when charging is complete (if not already).
  - Extreme care shall be taken not to over fill the refrigerating system.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas.
- The system shall be leak-tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant.
  To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

9. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant.
- It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure, ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

10. Labelling

- Equipment shall be labelled stating that it has been decommissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

11. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
  Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

■ Check of Density Limit

● Outdoor

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant.
So the requirements for installation space of appliance are determined according to the refrigerant charge amount (m_c) used in the appliance.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

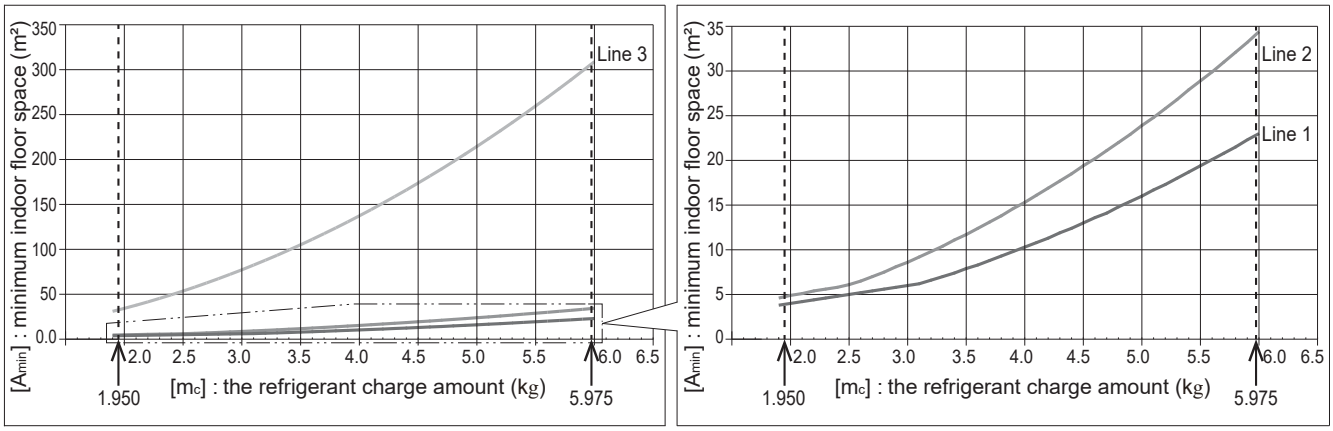


Table 1-11-2-4-1		
Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	4-Way Cassette, Ceiling Middle Static Pressure Duct 4-Way Cassette 60 × 60	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Wall Mounted Middle Static Pressure Duct	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct	Line 3

1.950 ≤ m_c ≤ m_{max} : Can be installed above "Density Limit Line" *1
*1 See "Density Limit Line" in Table 1-11-2-4-1 and below.
Fig. 1-11-2-4-1, Table 1-11-2-4-2.
Fig. 1-11-2-4-2, Table 1-11-2-4-4.
Fig. 1-11-2-4-3, Table 1-11-2-4-5.
Fig. 1-11-2-4-4, Table 1-11-2-4-6.
Fig. 1-11-2-4-5, Table 1-11-2-4-7.

m_c > m_{max} : Cannot be installed

	U-71PZH3E5 U-71PZH3E8	U-100PZH3E5, U-125PZH3E5, U-140PZH3E5 U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
m_{max}	2.850 kg	5.975 kg

m_c : The refrigerant charge amount (Total of refrigerant at shipment and refrigerant charge amount in the field).

- Please calculate m_c according to piping length in the field as shown in the calculation example below.

< Calculating example >

- See table "Specification for pipe connecting indoor unit to outdoor unit." on page 1-11-2-4-19.

(conditions : U-71PZH3E5 (TWIN) Total pipe length = 40 m)

$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 1.95$ kg + (0.045 kg * (40 m – 30 m)) = 2.400 kg

(conditions : U-125PZH3E5 (TRIPLE) Total pipe length = 65 m)

- Please see "7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS-Refrigerant charging" on page 1-11-2-4-23.

$m_c = ① + ② = ① + (③ * (④ - ⑤)) = 3.05$ kg + (0.045 kg * (65 m – 20 m)) = 5.075 kg

① : Refrigerant charged at shipment
② : Refrigerant charge amount in the field
③ : Additional charge per 1m
④ : Total pipe length
⑤ : Charge-less pipe length(max.)

- If the total piping length is within the maximum value of the charge-less piping length, refrigerant charge in the field is unnecessary.

m_{max} : The maximum refrigerant charge amount

● **Indoor**

4-Way Cassette Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

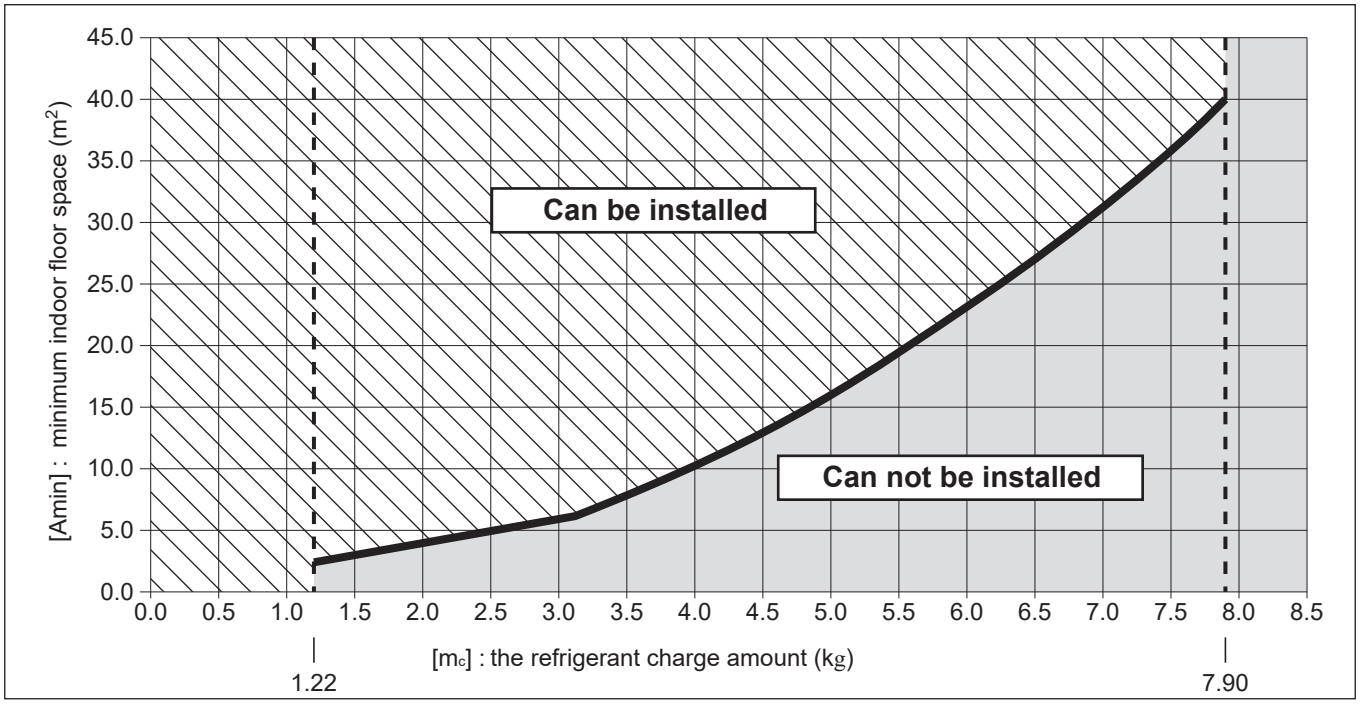


Fig. 1-11-2-4-1

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-4-2

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8
1.5	3.0
1.6	3.2
1.7	3.4
1.8	3.6
1.9	3.8
2.0	4.0
2.1	4.2
2.2	4.4
2.3	4.6
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6

[m_c]	[Amin]
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.6
3.3	7.0
3.4	7.4
3.5	7.9
3.6	8.3
3.7	8.8
3.8	9.3
3.9	9.8
4.0	10.3
4.1	10.8
4.2	11.3
4.3	11.9
4.4	12.4
4.5	13.0

[m_c]	[Amin]
4.6	13.6
4.7	14.1
4.8	14.8
4.9	15.4
5.0	16.0
5.1	16.7
5.2	17.3
5.3	18.0
5.4	18.7
5.5	19.4
5.6	20.1
5.7	20.8
5.8	21.5
5.9	22.3

Middle Static Pressure Duct Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

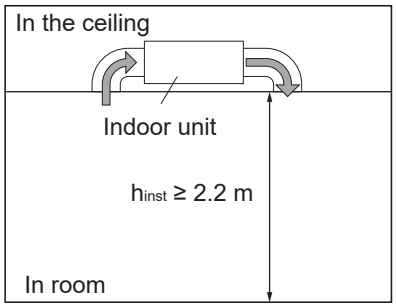
Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

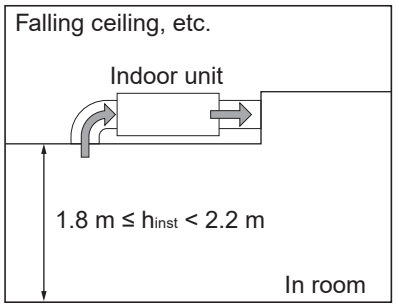
Table 1-11-2-4-3

Installation height of Indoor Unit: h_{inst}	Indoor Unit Type	Density Limit Line
$h_{inst} \geq 2.2$ m	Middle Static Pressure Duct (Horizontal installation)	Line 1
1.8 m ≤ h_{inst} < 2.2 m	Middle Static Pressure Duct (Horizontal installation)	Line 2
h_{inst} < 1.8 m	Middle Static Pressure Duct (Vertical installation)	Line 3

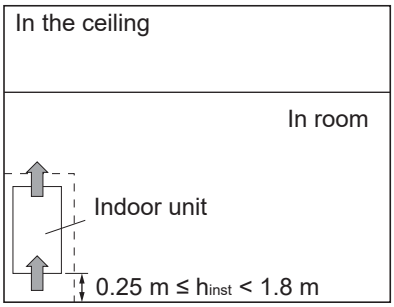
Line 1



Line 2



Line 3



The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:
Use the graph or Table 1-11-2-4-4 to determine the minimum indoor floor space.

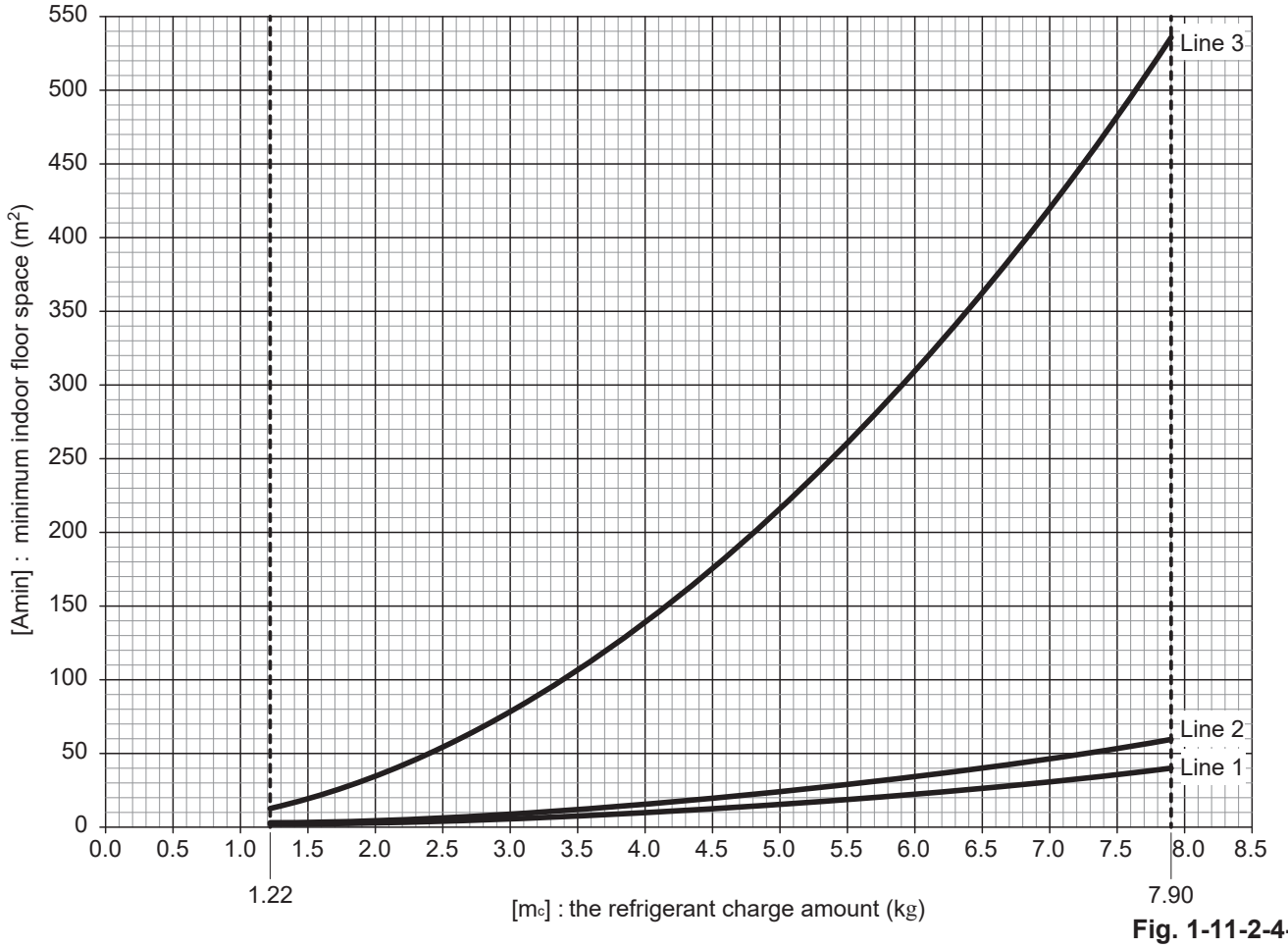


Fig. 1-11-2-4-2

Table 1-11-2-4-4

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
1.22	2.5	3.0	12.8
1.3	2.6	3.2	14.5
1.4	2.8	3.4	16.8
1.5	3.0	3.7	19.3
1.6	3.2	3.9	22.0
1.7	3.4	4.2	24.8
1.8	3.6	4.4	27.8
1.9	3.8	4.6	31.0
2.0	4.0	4.9	34.3
2.1	4.2	5.1	37.8
2.2	4.4	5.4	41.5
2.3	4.6	5.6	45.4
2.4	4.8	5.8	49.4
2.5	5.0	6.1	53.6
2.6	5.2	6.5	58.0
2.7	5.4	7.0	62.6
2.8	5.6	7.5	67.3
2.9	5.8	8.1	72.2
3.0	6.0	8.6	77.2
3.1	6.2	9.2	82.5
3.2	6.6	9.8	87.9
3.3	7.0	10.4	93.4
3.4	7.4	11.1	99.2

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
3.5	7.9	11.7	105.1
3.6	8.3	12.4	111.2
3.7	8.8	13.1	117.5
3.8	9.3	13.8	123.9
3.9	9.8	14.6	130.5
4.0	10.3	15.3	137.3
4.1	10.8	16.1	144.2
4.2	11.3	16.9	151.4
4.3	11.9	17.7	158.7
4.4	12.4	18.5	166.1
4.5	13.0	19.4	173.8
4.6	13.6	20.2	181.6
4.7	14.1	21.1	189.5
4.8	14.8	22.0	197.7
4.9	15.4	22.9	206.0
5.0	16.0	23.9	214.5
5.1	16.7	24.8	223.2
5.2	17.3	25.8	232.0
5.3	18.0	26.8	241.0
5.4	18.7	27.9	250.2
5.5	19.4	28.9	259.6
5.6	20.1	29.9	269.1
5.7	20.8	31.0	278.8

[m_c] kg	[Amin] m^2		
	Line 1	Line 2	Line 3
5.8	21.5	32.1	288.6
5.9	22.3	33.2	298.7

$m_c \leq 1.22$: Can be installed

$1.22 < m_c \leq m_{max}$: Can be installed above “Density Limit Line” *1

*1 See Table 1-11-2-4-3 and the Fig. 1-11-2-4-2 when deciding “Density Limit Line”.

Wall Mounted Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

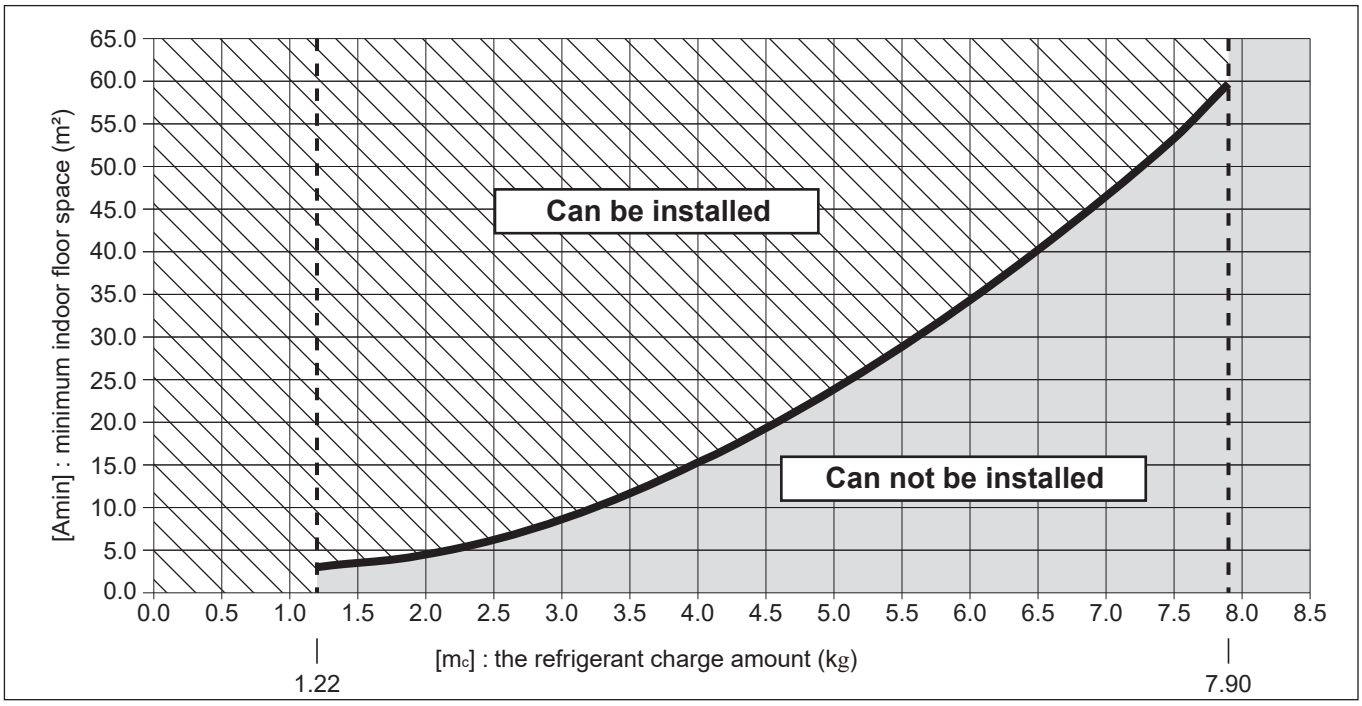


Fig. 1-11-2-4-3

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-4-5

[m_c]	[Amin]
1.22	3.0
1.3	3.2
1.4	3.4
1.5	3.7
1.6	3.9
1.7	4.2
1.8	4.4
1.9	4.6
2.0	4.9
2.1	5.1
2.2	5.4
2.3	5.6
2.4	5.9
2.5	6.1
2.6	6.4
2.7	6.9
2.8	7.5

[m_c]	[Amin]
2.9	8.0
3.0	8.6
3.1	9.1
3.2	9.7
3.3	10.3
3.4	11.0
3.5	11.6
3.6	12.3
3.7	13.0
3.8	13.7
3.9	14.4
4.0	15.2
4.1	15.9
4.2	16.7
4.3	17.5
4.4	18.4
4.5	19.2

[m_c]	[Amin]
4.6	20.1
4.7	20.9
4.8	21.8
4.9	22.8
5.0	23.7
5.1	24.6
5.2	25.6
5.3	26.6
5.4	27.6
5.5	28.7
5.6	29.7
5.7	30.8
5.8	31.9
5.9	33.0

Ceiling Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance. Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

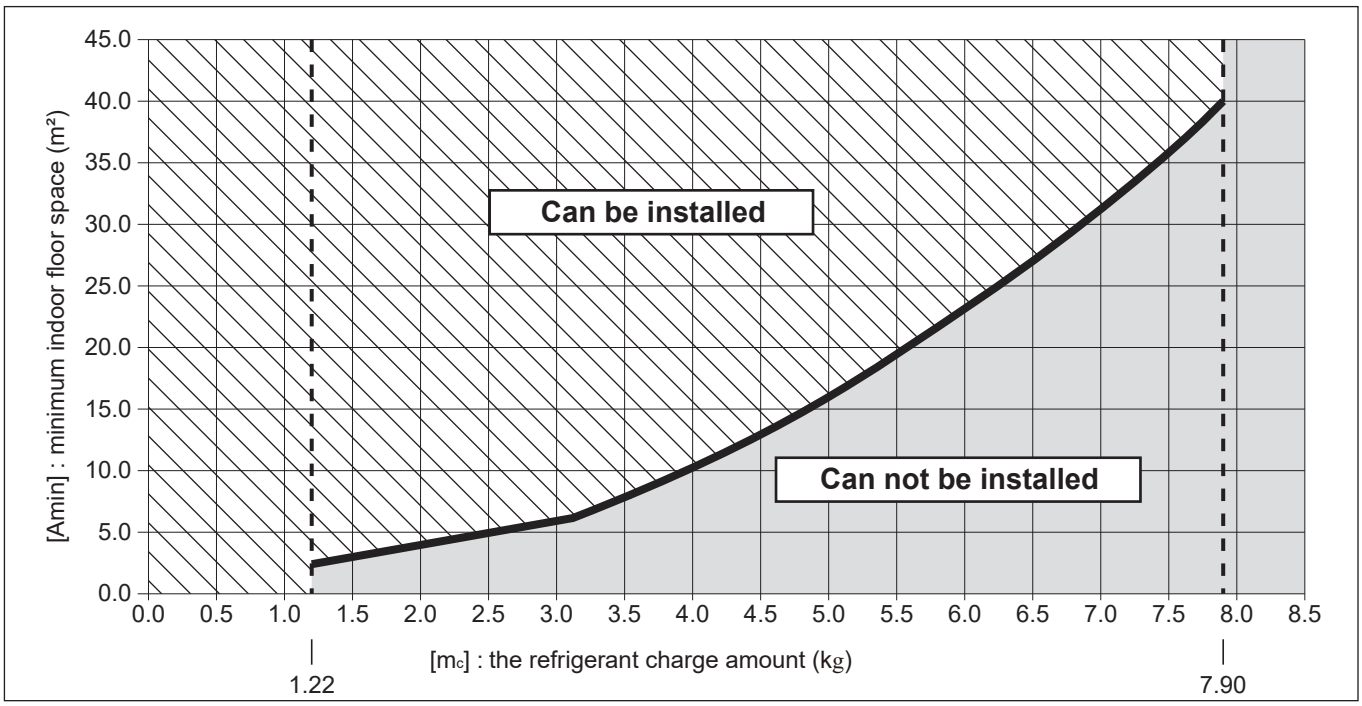


Fig. 1-11-2-4-4

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-4-6

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8
1.5	3.0
1.6	3.2
1.7	3.4
1.8	3.6
1.9	3.8
2.0	4.0
2.1	4.2
2.2	4.4
2.3	4.6
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6

[m_c]	[Amin]
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.5
3.3	6.9
3.4	7.4
3.5	7.8
3.6	8.3
3.7	8.7
3.8	9.2
3.9	9.7
4.0	10.2
4.1	10.7
4.2	11.2
4.3	11.8
4.4	12.3
4.5	12.9

[m_c]	[Amin]
4.6	13.4
4.7	14.0
4.8	14.6
4.9	15.2
5.0	15.9
5.1	16.5
5.2	17.2
5.3	17.8
5.4	18.5
5.5	19.2
5.6	19.9
5.7	20.6
5.8	21.3
5.9	22.1

4-Way Cassette 60 × 60 Type

The refrigerant (R32), which is used in the air conditioner, is a flammable refrigerant. So the requirements for installation space in each room of appliance are determined according to the refrigerant charge amount [m_c] used in the appliance.

Regarding the refrigerant charge amount [m_c] used in the appliance, see “4. REFRIGERANT INSTALLATION” on page 1-11-2-4-19.

The minimum indoor floor space compared with the amount of refrigerant is roughly as follows:

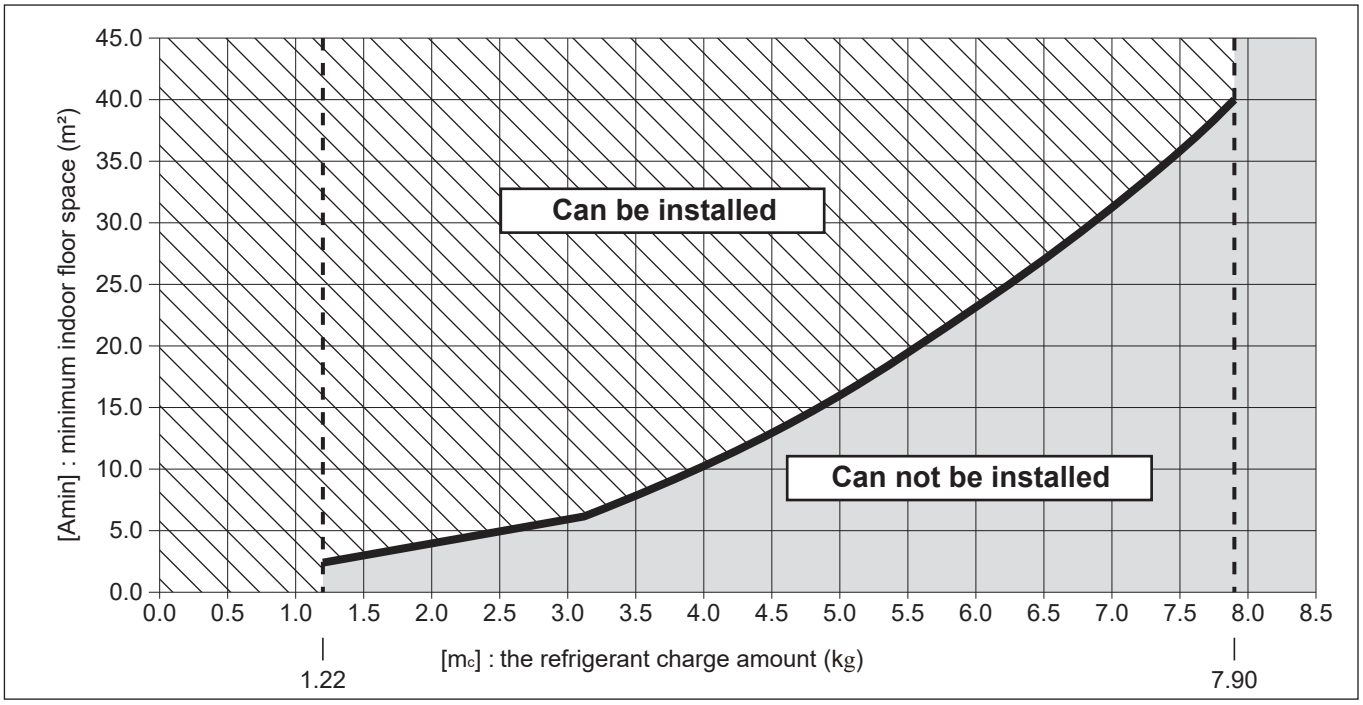


Fig. 1-11-2-4-5

[m_c] : The refrigerant charge amount (kg) (Total of refrigerant at shipment and refrigerant charge amount in the field).

[Amin] : Minimum indoor floor space (m^2)

Table 1-11-2-4-7

[m_c]	[Amin]
1.22	2.5
1.3	2.6
1.4	2.8
1.5	3.0
1.6	3.2
1.7	3.4
1.8	3.6
1.9	3.8
2.0	4.0
2.1	4.2
2.2	4.4
2.3	4.6
2.4	4.8
2.5	5.0
2.6	5.2
2.7	5.4
2.8	5.6

[m_c]	[Amin]
2.9	5.8
3.0	6.0
3.1	6.2
3.2	6.5
3.3	6.9
3.4	7.4
3.5	7.8
3.6	8.3
3.7	8.7
3.8	9.2
3.9	9.7
4.0	10.2
4.1	10.7
4.2	11.2
4.3	11.8
4.4	12.3
4.5	12.9

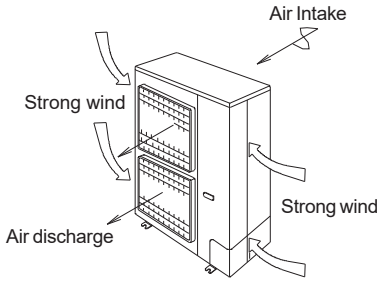
[m_c]	[Amin]
4.6	13.4
4.7	14.0
4.8	14.6
4.9	15.2
5.0	15.9
5.1	16.5
5.2	17.2
5.3	17.8
5.4	18.5
5.5	19.2
5.6	19.9
5.7	20.6
5.8	21.3
5.9	22.1

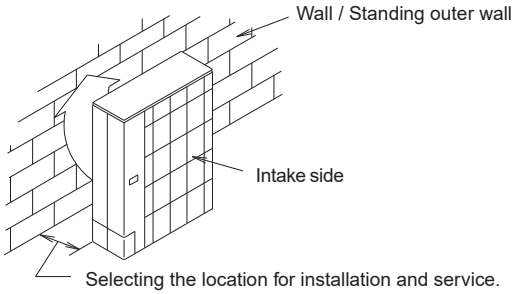
Please install according to 「Warning」「Caution」on page1-11-2-4-1 to 1-11-2-4-6.

1. SELECT THE OUTDOOR UNIT INSTALLATION LOCATION

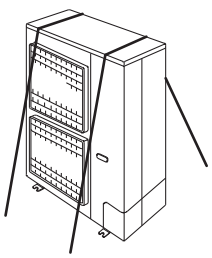
⚠ Warning	Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

1. Install the unit once you have checked that the installation location matches the following conditions.
   - A location with sufficient ventilation.
   - Possibly a location that is sheltered from rain or direct sunlight and is well-ventilated so that hot and cool air does not build up.
   - A location where the area around the discharge is not exposed to animals or plants which could adversely affect the release of hot or cool air from the unit.
   - A location where the discharge and operation noise will not be a nuisance to the neighbours.
   - A location that can support the product's weight or vibrations and secured for horizontal installation wherever possible.
   - A location that does not obstruct the air discharge or intake.
   - A location where there is no danger of flammable or corrosive gas leaks.
   - A location that provides space for installation and service.
   - A location that allows the pipe and cable length fixture for internal and external connections.
   - It may need two or more people to carry out the installation work.
2. See the diagram below for the installation location which is exposed to strong wind.
   - If a strong wind of more than 5 m/sec blows to the area directly in front of the discharge, the outdoor unit's air flow is reduced and the outflow may re-enter (short circuit) causing the following outcome: "Reduced capacity", "Increased frost formation during heating" or "Operation stopped due to increased pressure".
     Should an exceptionally strong wind blow to the area directly in front of the discharge of the outdoor unit; there is the risk of damage due to the fan's high-speed reverse rotation.
   - If the direction of the prevailing wind is known when operating the unit, place the unit at an appropriate angle to the wind's direction so that the discharge faces towards a building or a wall.





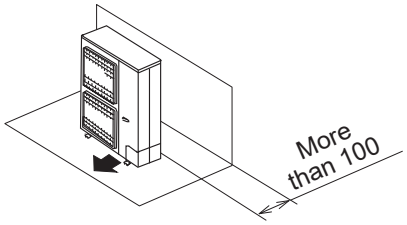
3. If installing at locations prone to snowfall, install the unit as high as possible with suitable roofing which shelters the unit from snow.
4. Avoid installing the unit in locations where there are petroleum products (such as machine oil), saline content (such as coastal areas), sulphurous gas and where high frequency noise is generated.
5. Place the indoor and outdoor unit, power cords and indoor / outdoor unit connection cables at a minimum distance of 1 meter or more away from televisions and radios. This is to avoid interference to picture and/or sound. (However, depending on the electromagnetic waves, noise interference may still occur even with the 1 meter separation.)
6. For restaurants and kitchens, avoid installing at locations which draws oil and steam.
   Plastic parts can deteriorate from droplets of oil and steam or it can cause falling parts or water leakage.
7. Avoid installing at the location where cutting oil mist or iron powder is present.
8. If there is an immense voltage fluctuation due to the location's problem, ensure to split the power supply.
9. When installing the product in a place where it will be affected by typhoon or strong wind such as wind blowing between buildings, including the rooftop of a building and a place where there is no building in surroundings, fix the product with an overturn prevention wire, etc.
10. Ensure to assign several people or use a mechanical lift, etc. to transport the unit.



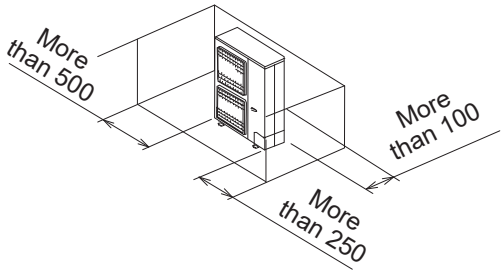
2. SELECTING THE LOCATION FOR INSTALLATION SERVICE

Please secure necessary space to guarantee performance and service & maintenance.
For multiple installations, please secure enough space to enable removal of side face screws between units. (unit:mm)
(A) If there are obstacles at the intake

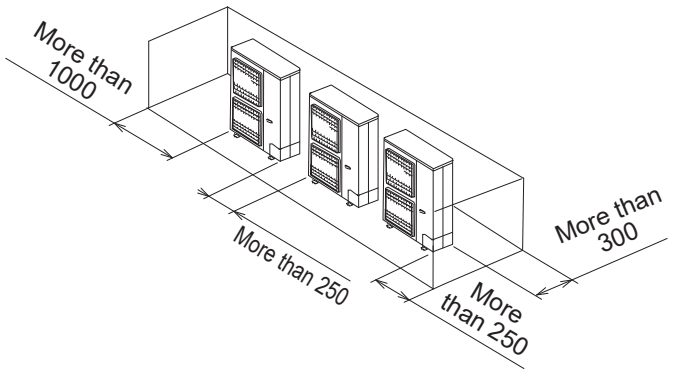
- If the upper part is open
  - ① For separate installation location
    - Only if there are obstacles at the intake



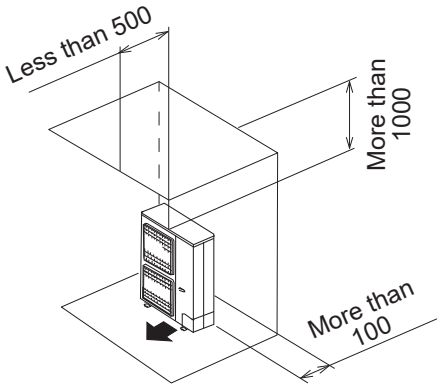
- If there are obstacles on both sides



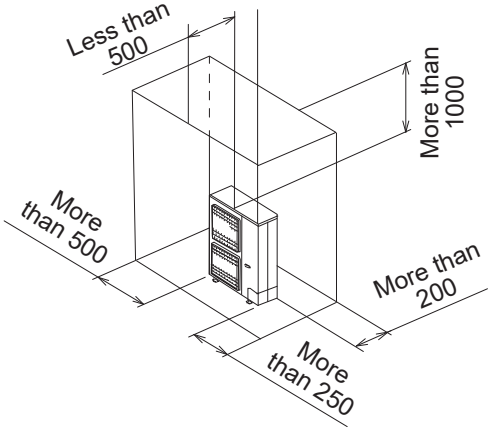
  - ② For multiple units (more than 2 units)
    - If there are obstacles on both sides



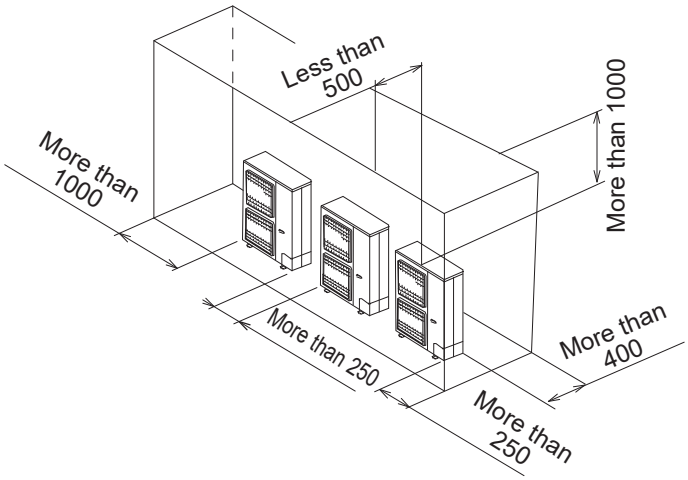
- If there are obstacles above the unit
  - ① For separate installation location
    - Only if there are obstacles at the intake



- If there are obstacles on the intake and the other side



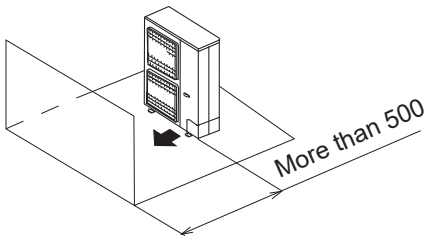
  - ② For multiple units (more than 2 units)
    - If there are obstacles on both sides



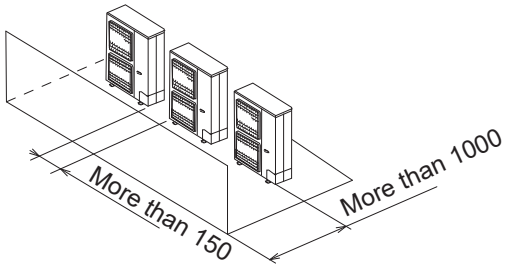
(B) If there are obstacles at the discharge

- If the upper part is open

① For separate installation location

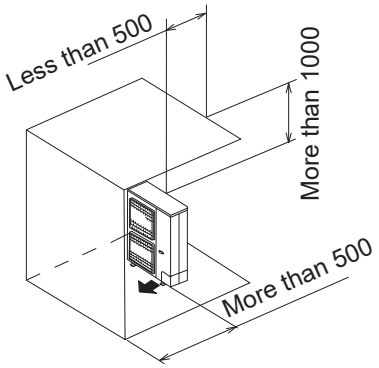


② For multiple units (more than 2 units)

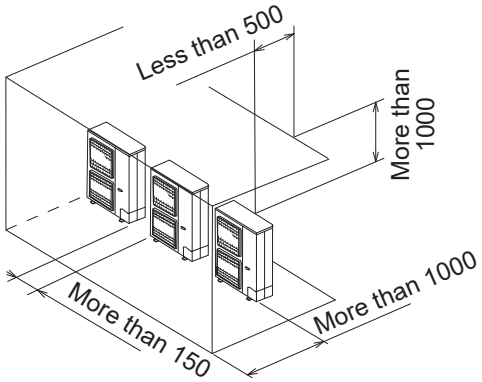


- If there are obstacles above the unit

① For separate installation location



② For multiple units (more than 2 units)

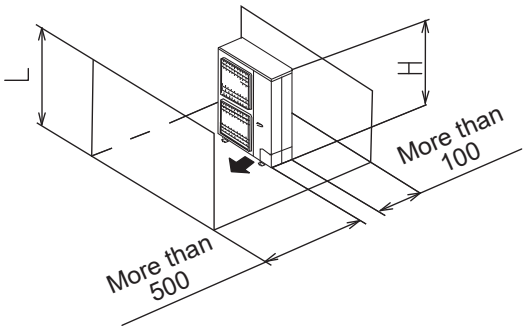


(C) If there are obstacles on both the intake and discharge

Pattern 1 If there is an obstacle that is higher than the unit on the intake side.
(There is no limit to the height of the obstacle above the discharge.)

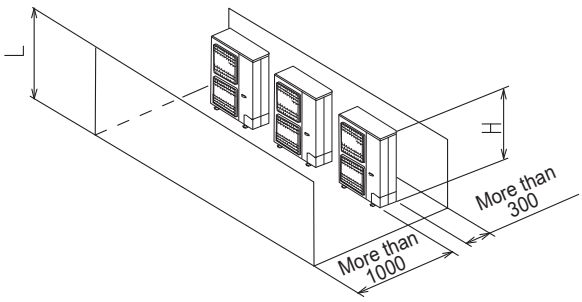
- If the upper part is open

① For separate installation location



L > H

② For multiple units (more than 2 units)



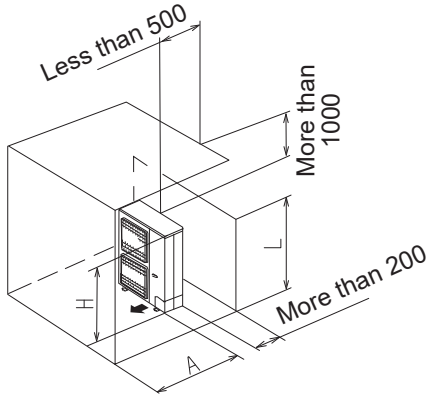
● If there are obstacles above the unit

① For separate installation location

• The dimensions for H, A and L are shown in the following table.

	L	A
L ≤ H	0 < L ≤ 1/2 H	500
	1/2H < L ≤ H	750
H < L	Install a pedestal or mount so that L ≤ H	

• Cover the bottom part of the pedestal or mount so that air does not go through it.



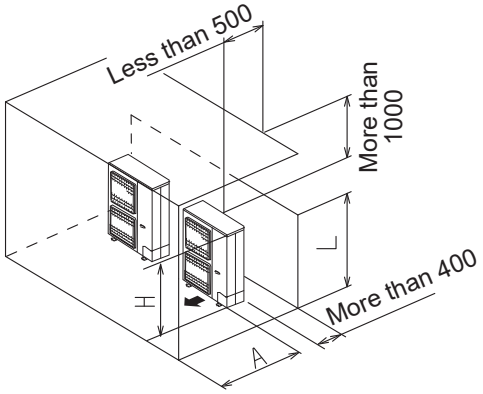
② For multiple units (up to 2 units)

• The dimensions for H, A and L are shown in the following table.

	L	A
L ≤ H	0 < L ≤ 1/2 H	1000
	1/2H < L ≤ H	1250
H < L	Install a pedestal or mount so that L ≤ H	

• Cover the bottom part of the pedestal or mount so that air does not bypass it.

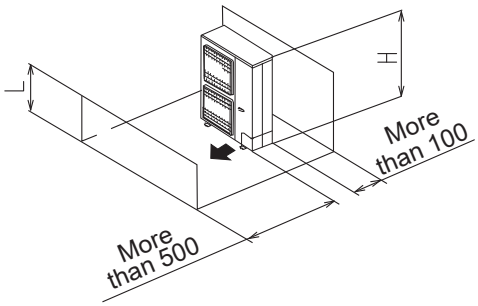
• A limit of only 2 units can be installed.



Pattern 2 If there is an obstacle that is higher than the unit on the discharge side. (There is no limit to the height of the obstacle above the discharge.)

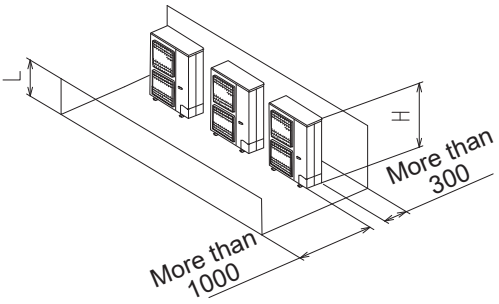
● If the upper part is open

① For separate installation location



L ≤ H

② For multiple units (more than 2 units)



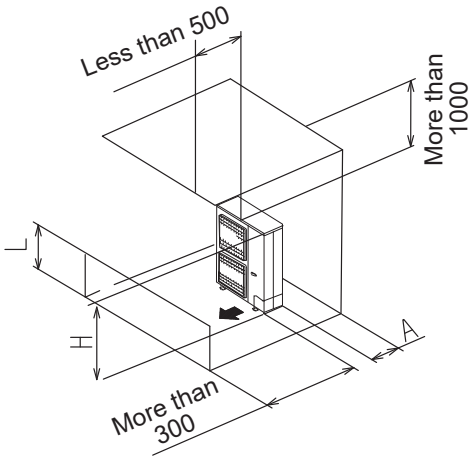
● If there are obstacles above the unit

① For separate installation location

• The dimensions for H, A and L are shown in the following table.

	A
L ≤ H	100
H < L	Install a pedestal or mount so that L ≤ H

• Cover the bottom part of the pedestal or mount so that air does not go through it.



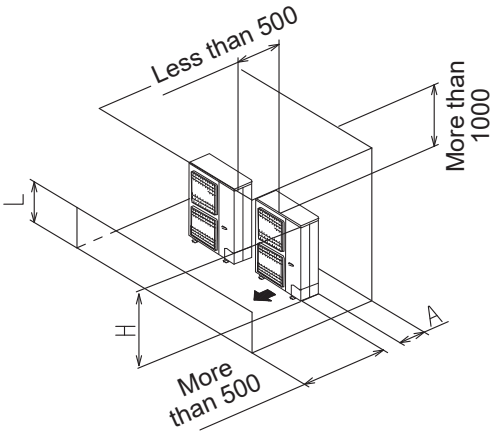
② For multiple units (up to 2 units)

• The dimensions for H, A and L are shown in the following table.

	A
L ≤ H	400
H < L	Install a pedestal or mount so that L ≤ H

• Cover the bottom part of the pedestal or mount so that air does not bypass it.

• A limit of only 2 units can be installed.

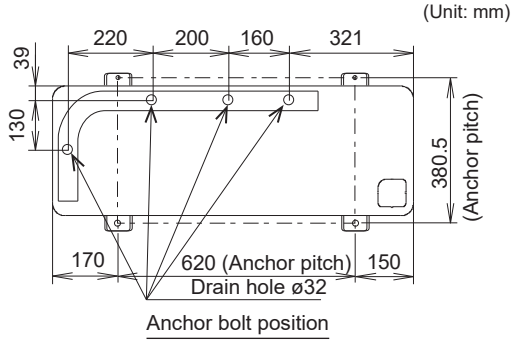


3. TRANSPORT AND INSTALL THE OUTDOOR UNIT

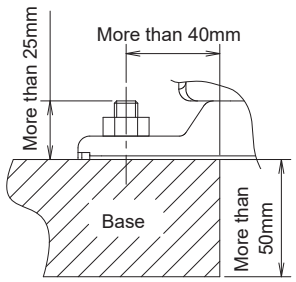
- Transporting
  1. Transport the outdoor unit in its original packaging as close as possible to the installation location.
  2. In the event that the unit needs to be lifted or suspended, use a rope or belt and use cloth or wood as padding to avoid damaging the unit.
  3. Use the side handles to carry the unit and be careful not to touch the fan with your hand or any objects.
- Installation
  1. Read the “Select the outdoor unit installation location” thoroughly before installing the outdoor unit.
  2. When installing to a concrete or solid surface, use M10 or a W 3/8 bolts and nuts to secure the unit. Ensure that it installed upright on a horizontal plane. (Use an anchor bolt for the installation as shown in the diagram below.)
  3. Avoid installing on the slanted roof.
  4. In the even where the roof is at risk of receiving oscillations or vibrations, secure the unit with a seismic isolating mount or vibration absorbing rubber.
  5. The drain water will be discharged from the unit during heating or defrosting operation mode. Select an appropriate location with good drainage system. (In the winter, there is risk of slipping due to freezing, and depending on the installation set up there is risk of slipping due to freezing, and depending on the installation set up there is risk of drain water running overhead.)

     ※ Please consult us if installing drain elbows.
     ※ In cold regions (where the outdoor temperature can drop to below 0°C for 2 to 3 consecutive days), the drain water may freeze and may prevent the fan from operating. For this case, do not use the drain elbow.

(Unit: mm)



Anchor bolt position

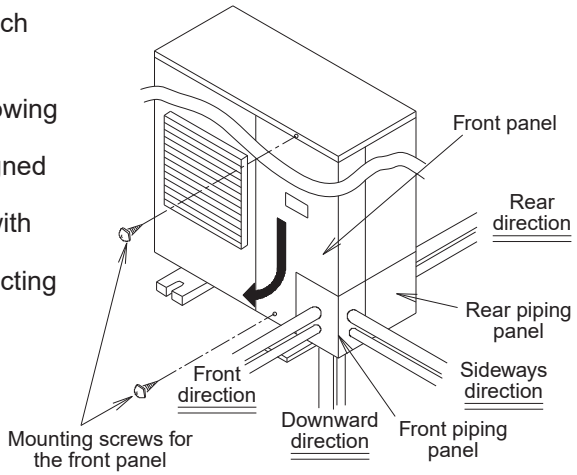


Anchor bolt length

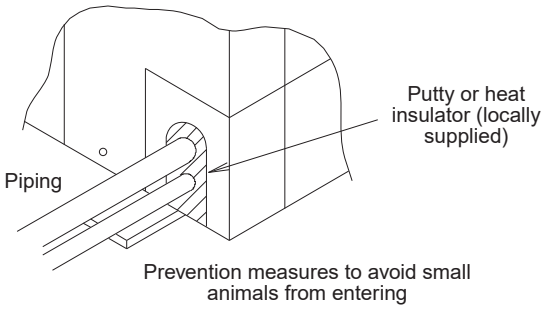
4. REFRIGERANT INSTALLATION

For indoor unit refrigerant piping installation, see "■ HOW TO PROCESS TUBING" under 1-11-1. Installation Instructions of Indoor Unit.

1. Precautions during refrigerant installation.
   - Use clean pipes with no dust inside.
     The pipe may corrode with the presence of fluorine dust which will adversely affect the refrigerant piping system due to deterioration of the refrigerant oil, etc.
   - This unit is specifically for R32. Ensure to adhere to the following items and install accordingly:
     • Use pipe cutters and flaring tools which are specially designed for use with R32.
     • When connecting with flaring tools, coat the flare section with ether-based oil.
     • Ensure to use flare nuts supplied with the unit when connecting this unit.
     • Only for storing or for open pipes.
     • Set the lower limit of the allowable pipe length to 5m.
       If the pipe is shorter than 5m, the refrigerant may become overfilled and a problem such as abnormal high pressure could occur.
     • Carefully handle the liquid refrigerant, as it may cause a frostbite.
     • Do not release refrigerants during the piping works for installing, re-installing and repairing refrigeration parts.



2. The local pipes can protrude from any four directions.
   - Make holes in the pipe panel for the pipes to penetrate it and lay the pipes accordingly.
     • It is recommended to apply additional substance to the cut area for anti-rust protection.
   - Ensure to install pipe panels to prevent rain water from getting into the unit.
   - Close the gap at the pipe connected area with putty or heat insulator (locally supplied).
     • If an insect or small animal enters the outdoor unit, there is the risk of shorting in the product electronic casing.
     [Remove the front panel]
     (1) Remove the 2 mounting screws.
     (2) Slide the front panel using your hands downwards to release the pawls.
     Then remove by pulling the panel towards you.



Prevention measures to avoid small animals from entering

Specification for pipe connecting indoor unit to outdoor unit.

		U-71PZH3E5 U-71PZH3E8	U-100PZH3E5, U-125PZH3E5, U-140PZH3E5 U-100PZH3E8, U-125PZH3E8, U-140PZH3E8
Pipe outer diameter	Liquid	9.52 mm (3/8 in.)	
	Gas	15.88 mm (5/8 in.)	
Maximum pipe length		50 m	85 m
Height difference	Outdoor located higher installation	30 m	
	Outdoor located lower installation	15 m	
Charge-less pipe length		5-30 m	
Additional charge per 1 m		45 g/m	
Refrigerant charged at shipment		1.95 kg	3.05 kg
Total refrigerant amount		2.850 kg	5.975 kg

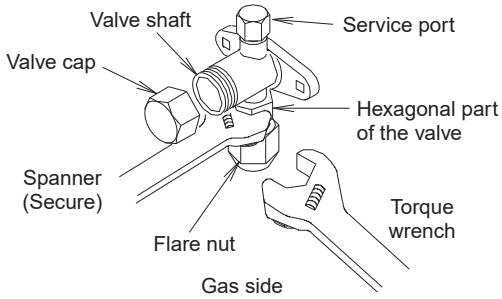
Remark: Do not overcharge.

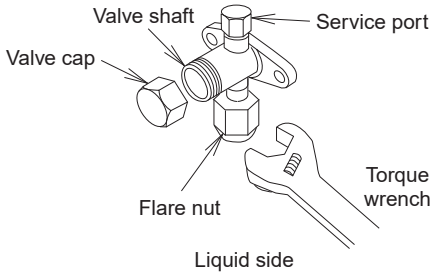
Piping Thickness:

Size mm(in.)	Ø6.35(1/4)	Ø9.52(3/8)	Ø12.7(1/2)	Ø15.88(5/8)	Ø19.05(3/4)
Thickness. mm	≥0.8	≥0.8	≥0.8	≥1.0	≥1.2
Material	Temper-O(Soft copper tube)				

Precautions when operating the 3-way valve for piping installation

- Do not open the 3-way valve until the piping installation is completed.
  - It is closed during shipment.
  - During installation the side panel may warp if only the flare nut is loosened and tightened with a torque wrench.
    As a result, always be sure to secure to the hexagonal part of the 3-way valve with a spanner, or other tool.
- See the following table for the tightening torque of the 3-way valve flare nuts.
  - If the nuts are over tightened, they may cause the flares to break or leak.
- Do not add additional force to the valve's cover.
  - Using spanners on the cover or valve itself (other than the hexagonal parts) may cause gas leakage.
    Avoid using spanners on the cover or parts other than the hexagonal part of the valve.

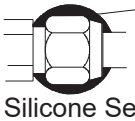




(Please use a single, open-end spanner to loosen and tighten the liquid side 3-way valve flare nut.)

Ensure to do the re-flaring of pipes before connecting to units to avoid leaking.

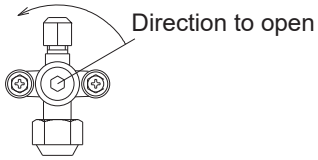
To prevent the ingress of moisture into the joint which could have the potential to freeze and then cause leakage, the joint must be sealed with suitable silicone and insulation material.
The joint should be sealed on both liquid and gas side.



Insulation material and silicone sealant. Please ensure there are no gaps where moisture can enter the joint.

Silicone Sealant must be neutral cure and ammonia free. Use of silicon containing ammonia can lead to corrosion on the joint and cause leakage.

[3-way valve operation method]
- Use an Allen wrench.
  (Size: 4 mm - Liquid side, 6 mm - Gas side)



		Tightening torque (approx.)
Valve cap (Valve size)	ø9.52 (Liquid side)	20.6N•m~28.4N•m (206kgf•cm~284kgf•cm)
	ø15.88 (Gas side)	48.0N•m~59.8N•m (480kgf•cm~598kgf•cm)
Service port		10.7N•m~14.7N•m (107kgf•cm~147kgf•cm)

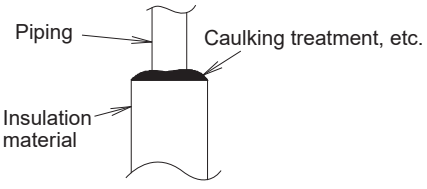
Opening : Open the cover and turn the Allen wrench counter-clockwise until it stops.
Closing : Open the cover and turn the Allen wrench clockwise until it stops.

Precautions for handling the valve cap

- Ensure not to scratch the inner surface of the valve or the end of the valve shaft.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.

Precautions for handling the service ports

- Use a push-rod with a charge hose.
  - Once adjustments to the valve are completed, ensure to tighten the valve cap according to the prescribed torque.



Precautions for connecting the pipes

- For proper connection, align the union and flare straight with each other.
- Ensure that the pipes do not come into contact with the compressor's bolts or exterior panel.
- There is a risk of condensation from the 3-way valve coming out between the insulation material and the indoor unit's piping when you install the outdoor unit above then the indoor unit. Ensure to caulk the connection parts.

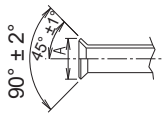
Precautions for insulation installation

Maximum temperature limit of gas or liquid piping exceeds 120 °C

- In high humidity environment, reinforce the insulation material for the refrigerant piping. Failure to do so may result in condensation on the surface of the insulation material.
- Use materials with good heat-resistant properties as the heat insulator for the pipes. Ensure to insulate both the gas side and liquid side pipes.
  If the pipes are not adequately insulated, condensation and water leakages may occur.
- Ensure that the current insulation covers the pipes up to the unit's connecting part.
  If the piping is exposed, it may cause condensation or burn (when touch the pipe).

Precautions for flare nut installation

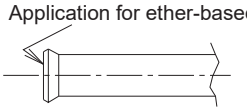
- Dimensions when adding flare nuts and the tightening torque
- For the flare nuts at piping connections, be sure to use the flare nuts that were supplied with the unit. The refrigerant piping that is used must be of the correct wall thickness as shown in the table below.

Piping size	Tightening torque (approx.)	Flare section dimensions A	Pipe thickness	Flare configuration
ø 6.35	14.0 N•m~18.0 N•m (140 kgf•cm~180 kgf•cm)	8.7 ~ 9.1 mm	0.8 mm	
ø 9.52	34.0 N•m~42.0 N•m (340 kgf•cm~420 kgf•cm)	12.8 ~ 13.2 mm	0.8 mm	
ø 12.7	49.0 N•m~55.0 N•m (490 kgf•cm~550 kgf•cm)	16.2 ~ 16.6 mm	0.8 mm	
ø 15.88	68.0 N•m~82.0 N•m (680 kgf•cm~820 kgf•cm)	19.3 ~ 19.7 mm	1.0 mm	

After piping connection has completed, ensure there is no gas leakage.

- Because the pressure is approximately 1.6 times higher than refrigerant R22 pressure, the use of flare nuts (type 1) or thin-walled pipes may result in pipe rupture, injury, or asphyxiation caused by refrigerant leakage.
- When tightening the flare nut, coat the flares (inner surface only) with refrigerant oil on the flares Firstly, screw in 3-4 turns by hand.
  ※ Ensure not to get oil on the screw part.
  Refrigerant oil used is ether-based.

Application for ether-based oil



- Once the piping connections are completed, perform leakage inspection using nitrogen gas.
- When flared joints are reused, the flare part shall be re-fabricated.

INCASE OF REUSING EXISTING REFRIGERANT PIPING

※ **Observe the followings to decide reusing the existing refrigerant piping. Poor refrigerant piping could result in product failure.**

- In the circumstances listed below, do not reuse any refrigerant piping. Instead, make sure to install a new piping.
  - Heat insulation is not provided for either liquid-side or gas-side piping or both.
  - The existing refrigerant pipe has been left in an open condition.
  - The diameter and thickness of the existing refrigerant piping does not meet the requirement. (See above tables)
  - The piping length and elevation does not meet the requirement. (See above tables)
  - Use only R32 or R410A genuine branch pipe.
- Perform proper pump down for operated product before reuse piping.
- In the circumstances listed below, clean it thoroughly before reuse.
  - Pump down operation cannot be performed for the existing air conditioner.
  - The compressor has a failure history.
  - Oil color is darken. (ASTM 4.0 and above)
  - The existing air conditioner is gas/oil heat pump type.
- Do not reuse the flare to prevent gas leak. Make sure to install a new flare.
- If there is a welded part on the existing refrigerant piping, conduct a gas leak check on the welded part.
- Replace deteriorated heat insulating material with a new one. Heat insulating material is required for both liquid-side and gas-side piping.
- How to connect to equipment when the existing pipe is Ø19.05
  - When connecting pipes with different diameters, use welding or ISO 14903 approved products.

Reusing existing piping

	U-71PZH3E5 U-71PZH3E8							
Liquid pipe	Ø6.35			Ø9.52			Ø12.70	
Gas pipe	Ø9.52	Ø12.70	Ø15.88	Ø12.70	Ø15.88	Ø19.05	Ø15.88	Ø19.05
Maximum pipe length	×	10	10	30	50	×	25	×
Charge-less pipe length	×	5 ~ 10	5 ~ 10	5 ~ 30	5 ~ 30	×	5 ~ 15	×
Additional charge per 1m	20 g/m			45 g/m			80 g/m	

	U-100PZH3E5,U-125PZH3E5,U-140PZH3E5 U-100PZH3E8,U-125PZH3E8,U-140PZH3E8							
Liquid pipe	Ø6.35			Ø9.52			Ø12.70	
Gas pipe	Ø9.52	Ø12.70	Ø15.88	Ø12.70	Ø15.88	Ø19.05	Ø15.88	Ø19.05
Maximum pipe length	×	×	×	×	85	85	35	35
Charge-less pipe length	×	×	×	×	5 ~ 30	5 ~ 30	5 ~ 15	5 ~ 15
Additional charge per 1m	×			45 g/m			80 g/m	

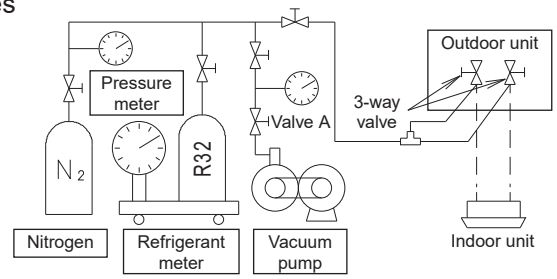
× Unallowable

5. LEAK TEST AND EVACUATION

Leak Tightness Test Method

- Keep 3-way valve fully closed and pressurize through three-way valve service port.
- Do not pressurize to the default value at once. Pressurize gradually.
  ① Pressurize to 0.5MPa (5 kgf/cm²G) and then leave it for 5 minutes to ensure that the pressure does not drop.
  ② Pressurize to 1.5MPa (15 kgf/cm²G) and leave it for 5 minutes to ensure that the pressure does not drop.
  ③ For the test, pressurize to 4.15MPa and leave it for about 1 day to ensure that the pressure does not drop.

Use nitrogen gas for the leak tightness test.
Using flammable gas can cause an explosion.



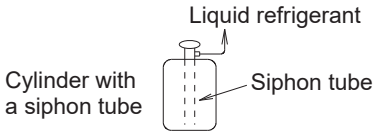
EVACUATION

- Use a vacuum pump (with back-flow prevention device) to vacuum through the 3-way valve service port to achieve the pressure below -101kPa (5 Torr).
  Vacuum level: Close valve A (see the figure) and check that the gauge pressure after 4 to 5 minutes is - 101kPa (5 Torr).
- Air and moisture remaining in the refrigerant system due to poor vacuum drying can cause performance decrement and malfunction of the compressor.

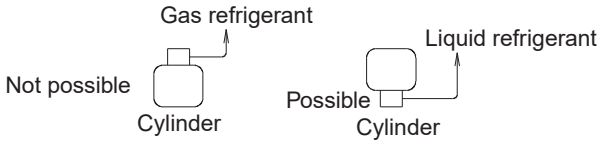
6. REGARDING REFRIGERANT FILLING

Precautions during refrigerant filling

- Ensure to fill only with liquid refrigerant when refilling.
  If gas refrigerant is filled, the refrigerant composition will not be balanced and will cause abnormal operation.



- If using cylinders as shown in the bottom left diagram; without a siphon tube inside, turn it upside down and use it. (It is recommended to use the manifold with the side glass.)



- Use tools that are designed specifically for R32, for pressure resistance and to prevent mixing impurities.
- Fill the refrigerant from the 3-way valve's service port on the liquid-side.

For filling and replacing all refrigerant (For refilling due to a leak)

- For refilling refrigerant, first collect all residual refrigerant and after vacuum dehydration using the vacuum pump. Refill the refrigerant according to the prescribed amount stated on the placard affixed to this unit.

Precautions after the pipes' connection have completed

- Ensure to open the 3-way valve after completing the piping installation, leak test and vacuuming. If it is closed during operation, it can lead to compressor failure.

Charging with refrigerant ※ For single combination

- At the time of shipment from the factory, this unit is charged with enough refrigerant for an equivalent pipe length of 30m. If the equivalent pipe length used will be 30m or less, no additional charging will be necessary.
- If the equivalent pipe length will be between 30 and 50/85m, charge with additional refrigerant according to the equivalent length given in the table below.
- For other combinations: See "7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS"

	Additional charging amount	Equivalent length	Minimum length
U-71PZH3E5 U-71PZH3E8	45g/m	50m	5m
U-100PZH3E5, U-125PZH3E5 ,U-140PZH3E5 U-100PZH3E8, U-125PZH3E8 ,U-140PZH3E8	45g/m	85m	5m

- Pump down operation
  See "2-4-3. Caution for Pump-Down" in Section 2. TEST RUN.

7. TWIN, TRIPLE AND DOUBLE TWIN TYPE CONNECTIONS

- Two, three or four indoor units can be operated simultaneously with a single remote control unit. Note that individual operation is not possible.
- Master unit and slave unit can be set automatically in twin, triple and double twin system. No address setting is necessary.
- Applicable “TWIN” “TRIPLE” and “DOUBLE TWIN” combination table.

	Outdoor unit	Type 71	Type 100	Type 125	Type 140
TWIN	combination	U-71 → S-3650 S-3650	U-100 → S-3650 S-3650	U-125 → S-6071 S-6071; U-125 → S-6010 S-6010	U-140 → S-6071 S-6071; U-140 → S-6010 S-6010
TRIPLE	combination	———	U-100 → S-3650 S-3650 S-3650	U-125 → S-3650 S-3650 S-3650	U-140 → S-3650 S-3650 S-3650
DOUBLE TWIN	combination	———	———	U-125 → S-3650 S-3650 S-3650 S-3650	———

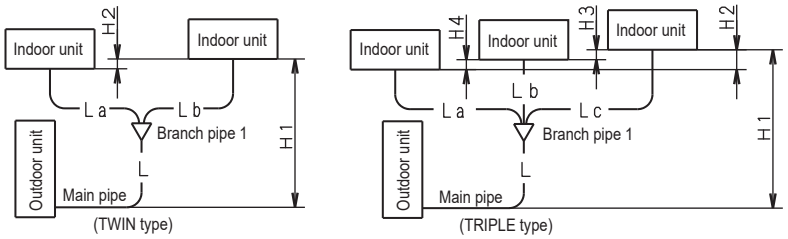
Piping Connections

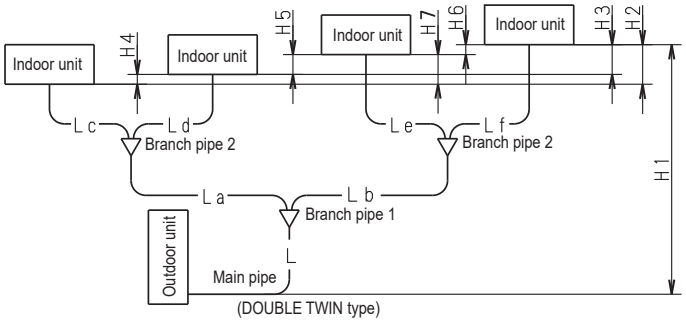
- The following table shows the pipe diameter. (Branch pipe kit should be used)

Outdoor unit main pipe diameter (mm)	Branch pipe diameter	Indoor unit combination				
		S-3650			S-6071, S-6010	
Liquid side : ø9.52 Gas side : ø15.88	Liquid side	ø6.35	ø6.35	ø6.35	ø9.52	ø9.52
	Gas side	ø12.7	ø12.7	ø12.7	ø15.88	ø15.88
Branch pipe kit (option)	TWIN, DOUBLE TWIN	CZ-P155BK1				
	TRIPLE	CZ-P3HPC2				

- The following table shows the equivalent pipe lengths and height differences.

		SYMBOLS			SPEC
		TWIN	TRIPLE	DOUBLE TWIN	
Total pipe length		L+La+Lb	L+La+Lb+Lc	L+La+Lb+Lc+Ld+Le+Lf	U-71P : 50m U-100/125/140P : 85m
Maximum branch pipe length	Length after branch pipe 1	La or Lb	La or Lb or Lc	La+Lc or La+Ld or Lb+Le or Lb+Lf	U-71P : 15m U-100/125/140P : 20m
	Length after branch pipe 2	———	———	Lc,Ld,Le,Lf	Less than 15m
Maximum branch pipe length difference		La > Lb La - Lb	La > Lb > Lc La - Lb Lb - Lc La - Lc	Lb+Lf →MAX La+Lc →MIN (Lb + Lf) - (La + Lc)	Less than 10m
Maximum pipe length difference of branch pipe 1 (DOUBLE TWIN)		———	———	Lb > La Lb - La	Less than 10m
Maximum pipe length difference of branch pipe 2 (DOUBLE TWIN)		———	———	Ld > Lc Lf > Le Ld - Lc Lf - Le	Less than 10m
Height difference	Outdoor located higher installation	H1			Less than 30m
	Outdoor located lower installation	H1			Less than 15m
Height difference between indoor units		H2	H2 or H3 or H4	H2 or H3 or H4 or H5 or H6 or H7	Less than 0.5m





Refrigerant charging

- For the twin connection, the amount of refrigerant required for pipe length 30m has been included in this unit at the factory while that required for pipe length 20m has been included for the triple/double-twin connections. No additional charge is required for the first 30m pipe length in the case of the twin connection and for the first 20m in the case of the triple/double-twin connections. The amount of included refrigerant for each model is listed on NAME PLATE.
  Make additional charges by adding up pipe length in an order of main pipe (L)→ branch pipe (La→ Lb→ Lc wide diameter) and then selecting the amount of refrigerant corresponding to the remaining (after 30m for the twin connection and after 20m for the triple/double-twin connections) liquid side pipe diameter and pipe length from the right table.

Liquid pipe diameter	Addition amount of refrigerant [g/m]
ø6.35	20
ø9.52	45

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PU3E (S-3650PU3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	23	16	3.6	3.2	0.622	3.4	2.6	0.731	3.2	2.5	0.834	3.0	2.5	0.949	2.9	2.5	1.02
			19	4.0	2.4	0.619	3.8	1.9	0.727	3.6	1.7	0.830	3.4	1.6	0.945	3.3	1.5	1.01
			22	4.5	1.5	0.610	4.2	0.9	0.717	4.0	0.8	0.818	3.7	0.8	0.931	3.6	0.7	0.996
		25	16	3.6	3.6	0.622	3.4	3.4	0.731	3.2	3.2	0.834	3.0	3.0	0.949	2.9	2.9	1.02
			19	4.0	2.9	0.619	3.8	2.9	0.727	3.6	2.7	0.830	3.4	2.6	0.945	3.3	2.6	1.01
			22	4.5	2.0	0.610	4.2	2.0	0.717	4.0	2.0	0.818	3.7	1.8	0.931	3.6	1.8	0.996
		27	16	3.6	3.6	0.622	3.4	3.4	0.731	3.2	3.2	0.834	3.0	3.0	0.949	2.9	2.9	1.02
			19	4.0	3.4	0.619	3.8	3.5	0.727	3.6	3.2	0.830	3.4	3.2	0.945	3.3	3.1	1.01
			22	4.5	2.7	0.610	4.2	2.5	0.717	4.0	2.4	0.818	3.7	2.3	0.931	3.6	2.3	0.996
		29	16	3.6	3.6	0.622	3.4	3.4	0.731	3.2	3.2	0.834	3.0	3.0	0.949	2.9	2.9	1.02
			19	4.0	4.0	0.619	3.8	3.8	0.727	3.6	3.6	0.830	3.4	3.4	0.945	3.3	3.3	1.01
			22	4.5	3.2	0.610	4.2	3.0	0.717	4.0	2.9	0.818	3.7	2.9	0.931	3.6	2.8	0.996
		32	16	3.6	3.6	0.622	3.4	3.4	0.731	3.2	3.2	0.834	3.0	3.0	0.949	2.9	2.9	1.02
			19	4.0	4.0	0.619	3.8	3.8	0.727	3.6	3.6	0.830	3.4	3.4	0.945	3.3	3.3	1.01
			22	4.5	3.9	0.610	4.2	3.8	0.717	4.0	3.7	0.818	3.7	3.7	0.931	3.6	3.6	0.996
S-3650PU3E (S-3650PU3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	4.1	0.966	4.8	3.3	1.11	4.6	3.3	1.27	4.2	3.1	1.44	4.0	2.9	1.55
			19	5.6	3.1	0.972	5.3	2.4	1.12	5.0	2.2	1.28	4.6	2.0	1.45	4.3	2.0	1.55
			22	6.1	2.0	0.972	5.8	1.3	1.12	5.5	1.2	1.28	5.1	1.1	1.45	4.8	1.0	1.55
		25	16	5.1	4.7	0.966	4.8	4.5	1.11	4.6	4.5	1.27	4.2	4.2	1.44	4.0	4.0	1.55
			19	5.6	3.7	0.972	5.3	3.6	1.12	5.0	3.5	1.28	4.6	3.2	1.45	4.3	3.2	1.55
			22	6.1	2.6	0.972	5.8	2.5	1.12	5.5	2.4	1.28	5.1	2.3	1.45	4.8	2.2	1.55
		27	16	5.1	5.1	0.966	4.8	4.8	1.11	4.6	4.6	1.27	4.2	4.2	1.44	4.0	4.0	1.55
			19	5.6	4.3	0.972	5.3	4.2	1.12	5.0	4.0	1.28	4.6	3.8	1.45	4.3	3.8	1.55
			22	6.1	3.2	0.972	5.8	3.1	1.12	5.5	3.0	1.28	5.1	2.9	1.45	4.8	2.8	1.55
		29	16	5.1	5.1	0.966	4.8	4.8	1.11	4.6	4.6	1.27	4.2	4.2	1.44	4.0	4.0	1.55
			19	5.6	4.9	0.972	5.3	4.8	1.12	5.0	4.7	1.28	4.6	4.4	1.45	4.3	4.3	1.55
			22	6.1	3.8	0.972	5.8	3.7	1.12	5.5	3.6	1.28	5.1	3.5	1.45	4.8	3.3	1.55
		32	16	5.1	5.1	0.966	4.8	4.8	1.11	4.6	4.6	1.27	4.2	4.2	1.44	4.0	4.0	1.55
			19	5.6	5.6	0.972	5.3	5.3	1.12	5.0	5.0	1.28	4.6	4.6	1.45	4.3	4.3	1.55
			22	6.1	4.7	0.972	5.8	4.6	1.12	5.5	4.5	1.28	5.1	4.3	1.45	4.8	4.2	1.55
S-6071PU3E (S-6071PU3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	6.2	4.9	1.26	5.9	4.1	1.42	5.4	3.8	1.59	5.0	3.7	1.85	4.8	3.5	1.99
			19	6.8	3.7	1.27	6.5	2.8	1.44	6.0	2.7	1.61	5.5	2.4	1.87	5.2	2.4	2.01
			22	7.6	2.5	1.28	7.2	1.7	1.45	6.7	1.5	1.62	6.2	1.3	1.88	5.9	1.1	2.03
		25	16	6.2	5.7	1.26	5.9	5.6	1.42	5.4	5.3	1.59	5.0	5.0	1.85	4.8	4.8	1.99
			19	6.8	4.5	1.27	6.5	4.3	1.44	6.0	4.2	1.61	5.5	3.9	1.87	5.2	3.9	2.01
			22	7.6	3.3	1.28	7.2	3.2	1.45	6.7	3.0	1.62	6.2	2.8	1.88	5.9	2.6	2.03
		27	16	6.2	6.2	1.26	5.9	5.9	1.42	5.4	5.4	1.59	5.0	5.0	1.85	4.8	4.8	1.99
			19	6.8	5.3	1.27	6.5	5.1	1.44	6.0	4.9	1.61	5.5	4.7	1.87	5.2	4.6	2.01
			22	7.6	4.0	1.28	7.2	3.9	1.45	6.7	3.8	1.62	6.2	3.5	1.88	5.9	3.4	2.03
		29	16	6.2	6.2	1.26	5.9	5.9	1.42	5.4	5.4	1.59	5.0	5.0	1.85	4.8	4.8	1.99
			19	6.8	6.0	1.27	6.5	5.8	1.44	6.0	5.7	1.61	5.5	5.5	1.87	5.2	5.2	2.01
			22	7.6	4.8	1.28	7.2	4.7	1.45	6.7	4.5	1.62	6.2	4.3	1.88	5.9	4.2	2.03
		32	16	6.2	6.2	1.26	5.9	5.9	1.42	5.4	5.4	1.59	5.0	5.0	1.85	4.8	4.8	1.99
			19	6.8	6.8	1.27	6.5	6.5	1.44	6.0	6.0	1.61	5.5	5.5	1.87	5.2	5.2	2.01
			22	7.6	5.9	1.28	7.2	5.8	1.45	6.7	5.7	1.62	6.2	5.5	1.88	5.9	5.3	2.03
S-6071PU3E (S-6071PU3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	7.1	5.5	1.69	6.7	4.4	1.89	6.4	4.4	2.14	5.7	4.0	2.34	5.2	3.8	2.42
			19	7.9	4.2	1.71	7.4	3.2	1.92	7.1	3.1	2.17	6.3	2.8	2.37	5.7	2.5	2.45
			22	8.8	2.9	1.75	8.3	1.9	1.96	8.0	1.8	2.21	7.1	1.5	2.41	6.4	1.3	2.49
		25	16	7.1	6.3	1.69	6.7	6.1	1.89	6.4	6.0	2.14	5.7	5.6	2.34	5.2	5.2	2.42
			19	7.9	5.0	1.71	7.4	4.9	1.92	7.1	4.7	2.17	6.3	4.4	2.37	5.7	4.1	2.45
			22	8.8	3.8	1.75	8.3	3.5	1.96	8.0	3.5	2.21	7.1	3.1	2.41	6.4	2.9	2.49
		27	16	7.1	7.1	1.69	6.7	6.7	1.89	6.4	6.4	2.14	5.7	5.7	2.34	5.2	5.2	2.42
			19	7.9	5.8	1.71	7.4	5.7	1.92	7.1	5.5	2.17	6.3	5.2	2.37	5.7	5.0	2.45
			22	8.8	4.5	1.75	8.3	4.4	1.96	8.0	4.2	2.21	7.1	3.9	2.41	6.4	3.7	2.49
		29	16	7.1	7.1	1.69	6.7	6.7	1.89	6.4	6.4	2.14	5.7	5.7	2.34	5.2	5.2	2.42
			19	7.9	6.6	1.71	7.4	6.5	1.92	7.1	6.3	2.17	6.3	6.0	2.37	5.7	5.7	2.45
			22	8.8	5.4	1.75	8.3	5.1	1.96	8.0	5.1	2.21	7.1	4.7	2.41	6.4	4.5	2.49
		32	16	7.1	7.1	1.69	6.7	6.7	1.89	6.4	6.4	2.14	5.7	5.7	2.34	5.2	5.2	2.42
			19	7.9	7.9	1.71	7.4	7.4	1.92	7.1	7.1	2.17	6.3	6.3	2.37	5.7	5.7	2.45
			22	8.8	6.6	1.75	8.3	6.4	1.96	8.0	6.3	2.21	7.1	5.9	2.41	6.4	5.7	2.49

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-1014PU3E (S-1014PU3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.4	9.3	3.26	10.7	7.6	3.48	10.1	7.3	3.71	9.1	6.9	3.71	7.0	6.0	2.78
			19	12.2	6.9	3.40	11.4	5.2	3.63	10.7	5.0	3.87	9.8	4.6	3.87	7.5	3.8	2.90
			22	13.4	4.7	3.52	12.5	3.0	3.76	11.8	2.8	4.00	10.7	2.4	4.00	8.2	1.6	3.00
		25	16	11.8	10.9	3.31	11.1	10.5	3.54	10.4	10.2	3.77	9.5	9.5	3.77	7.3	7.3	2.83
			19	12.6	8.5	3.46	11.8	8.2	3.70	11.1	7.9	3.93	10.1	7.5	3.93	7.8	6.6	2.95
			22	13.9	6.3	3.58	13.0	5.9	3.82	12.2	5.7	4.07	11.1	5.3	4.07	8.5	4.4	3.05
		27	16	12.2	12.2	3.37	11.4	11.4	3.60	10.8	10.8	3.83	9.8	9.8	3.83	7.5	7.5	2.88
			19	13.1	10.1	3.51	12.2	9.7	3.76	11.5	9.4	4.00	10.5	9.0	4.00	8.1	8.1	3.00
			22	14.3	7.8	3.64	13.4	7.5	3.89	12.6	7.2	4.14	11.5	6.8	4.14	8.8	5.9	3.10
		29	16	12.4	12.4	3.38	11.6	11.6	3.61	10.9	10.9	3.84	9.9	9.9	3.84	7.6	7.6	2.88
			19	13.3	11.6	3.52	12.4	11.2	3.77	11.7	10.9	4.01	10.6	10.5	4.01	8.2	8.2	3.01
			22	14.5	9.3	3.64	13.6	8.9	3.90	12.8	8.6	4.15	11.6	8.2	4.15	9.0	7.3	3.11
		32	16	12.6	12.6	3.39	11.8	11.8	3.62	11.1	11.1	3.85	10.1	10.1	3.85	7.8	7.8	2.89
			19	13.5	13.5	3.53	12.6	12.6	3.78	11.8	11.8	4.02	10.8	10.8	4.02	8.3	8.3	3.01
			22	14.7	11.4	3.65	13.8	11.0	3.91	13.0	10.8	4.16	11.8	10.3	4.16	9.1	9.1	3.12
S-1014PU3E S-1014PU3E(125)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.4	10.2	3.91	12.6	8.4	4.18	11.8	8.2	4.45	10.7	7.7	4.45	8.3	6.6	3.34
			19	14.3	7.7	4.08	13.4	5.9	4.36	12.6	5.6	4.64	11.5	5.3	4.64	8.8	4.3	3.48
			22	15.7	5.5	4.22	14.7	3.8	4.51	13.8	3.5	4.80	12.6	2.9	4.80	9.7	2.0	3.60
		25	16	13.9	12.0	3.98	13.0	11.5	4.25	12.2	11.2	4.53	11.1	10.6	4.53	8.6	8.6	3.39
			19	14.8	9.4	4.15	13.9	9.1	4.43	13.1	8.6	4.72	11.9	8.2	4.72	9.1	7.1	3.54
			22	16.3	7.2	4.29	15.2	6.8	4.59	14.3	6.5	4.88	13.0	6.0	4.88	10.0	5.0	3.66
		27	16	14.4	13.6	4.04	13.4	13.3	4.32	12.6	12.6	4.60	11.5	11.5	4.60	8.8	8.8	3.45
			19	15.3	11.2	4.22	14.4	10.6	4.51	13.5	10.4	4.80	12.3	9.8	4.80	9.5	8.8	3.60
			22	16.8	8.8	4.36	15.7	8.4	4.66	14.8	8.1	4.97	13.4	7.6	4.97	10.4	6.5	3.72
		29	16	14.6	14.6	4.05	13.6	13.6	4.33	12.8	12.8	4.61	11.7	11.7	4.61	9.0	9.0	3.46
			19	15.6	12.7	4.23	14.6	12.1	4.52	13.7	11.9	4.81	12.5	11.4	4.81	9.6	9.6	3.61
			22	17.1	10.2	4.37	16.0	9.9	4.68	15.0	9.6	4.98	13.6	8.9	4.98	10.5	8.0	3.73
		32	16	14.8	14.8	4.06	13.8	13.8	4.34	13.0	13.0	4.62	11.8	11.8	4.62	9.1	9.1	3.47
			19	15.8	14.9	4.24	14.8	14.5	4.53	13.9	13.9	4.82	12.6	12.6	4.82	9.7	9.7	3.62
			22	17.3	12.5	4.38	16.2	12.2	4.69	15.2	11.8	4.99	13.8	11.2	4.99	10.7	10.1	3.74
S-1014PU3E S-1014PU3E(140)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	11.0	4.48	13.9	9.2	4.79	13.1	8.8	5.10	11.9	8.3	5.10	9.2	7.1	3.83
			19	15.9	8.6	4.67	14.9	6.7	5.00	14.0	6.3	5.32	12.7	5.8	5.32	9.8	4.7	3.99
			22	17.5	6.2	4.84	16.3	4.4	5.17	15.4	4.0	5.50	14.0	3.5	5.50	10.7	2.2	4.13
		25	16	15.4	12.8	4.56	14.4	12.4	4.87	13.6	11.9	5.19	12.3	11.5	5.19	9.5	9.5	3.89
			19	16.5	10.2	4.75	15.4	9.7	5.08	14.5	9.3	5.41	13.2	8.9	5.41	10.2	7.7	4.06
			22	18.1	7.8	4.92	16.9	7.5	5.26	15.9	7.1	5.60	14.4	6.4	5.60	11.1	5.4	4.20
		27	16	16.0	14.5	4.63	14.9	14.0	4.95	14.0	13.6	5.27	12.8	12.8	5.27	9.8	9.8	3.95
			19	17.0	11.9	4.83	15.9	11.6	5.17	15.0	11.0	5.50	13.6	10.4	5.50	10.5	9.3	4.13
			22	18.7	9.5	5.00	17.5	9.2	5.34	16.4	8.8	5.69	14.9	8.2	5.69	11.5	7.0	4.27
		29	16	16.2	16.2	4.64	15.2	15.2	4.96	14.3	14.3	5.29	13.0	13.0	5.29	10.0	10.0	3.96
			19	17.3	13.7	4.84	16.2	13.0	5.18	15.2	12.6	5.51	13.8	12.1	5.51	10.7	10.7	4.14
			22	19.0	11.2	5.01	17.7	10.6	5.36	16.7	10.3	5.70	15.2	9.6	5.70	11.7	8.5	4.28
		32	16	16.4	16.4	4.65	15.4	15.4	4.98	14.5	14.5	5.30	13.1	13.1	5.30	10.1	10.1	3.97
			19	17.6	15.8	4.86	16.4	15.5	5.19	15.4	15.0	5.53	14.0	14.0	5.53	10.8	10.8	4.15
			22	19.2	13.4	5.02	18.0	13.0	5.37	16.9	12.6	5.72	15.4	11.9	5.72	11.8	10.6	4.29

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PU3E×2 (S-3650PU3E(50)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.4	9.0	3.26	10.7	7.4	3.48	10.1	7.1	3.71	9.1	6.7	3.71	7.0	5.7	2.78
			19	12.2	6.7	3.40	11.4	5.2	3.63	10.7	4.9	3.87	9.8	4.5	3.87	7.5	3.7	2.90
			22	13.4	4.7	3.52	12.5	3.1	3.76	11.8	2.9	4.00	10.7	2.5	4.00	8.2	1.7	3.00
		25	16	11.8	10.4	3.31	11.1	10.1	3.54	10.4	9.8	3.77	9.5	9.4	3.77	7.3	7.3	2.83
			19	12.6	8.2	3.46	11.8	7.9	3.70	11.1	7.6	3.93	10.1	7.2	3.93	7.8	6.3	2.95
			22	13.9	6.2	3.58	13.0	5.8	3.82	12.2	5.5	4.07	11.1	5.2	4.07	8.5	4.3	3.05
		27	16	12.2	11.9	3.37	11.4	11.4	3.60	10.8	10.8	3.83	9.8	9.8	3.83	7.5	7.5	2.88
			19	13.1	9.7	3.51	12.2	9.3	3.76	11.5	9.0	4.00	10.5	8.6	4.00	8.1	7.7	3.00
			22	14.3	7.6	3.64	13.4	7.3	3.89	12.6	6.9	4.14	11.5	6.6	4.14	8.8	5.7	3.10
		29	16	12.4	12.4	3.38	11.6	11.6	3.61	10.9	10.9	3.84	9.9	9.9	3.84	7.6	7.6	2.88
			19	13.3	11.0	3.52	12.4	10.7	3.77	11.7	10.4	4.01	10.6	9.9	4.01	8.2	8.2	3.01
			22	14.5	8.9	3.64	13.6	8.6	3.90	12.8	8.3	4.15	11.6	7.9	4.15	9.0	6.9	3.11
		32	16	12.6	12.6	3.39	11.8	11.8	3.62	11.1	11.1	3.85	10.1	10.1	3.85	7.8	7.8	2.89
			19	13.5	13.0	3.53	12.6	12.6	3.78	11.8	11.8	4.02	10.8	10.8	4.02	8.3	8.3	3.01
			22	14.7	10.9	3.65	13.8	10.6	3.91	13.0	10.3	4.16	11.8	9.8	4.16	9.1	8.9	3.12
S-6071PU3E×2 (S-6071PU3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.4	10.9	3.91	12.6	8.9	4.18	11.8	8.6	4.45	10.7	8.1	4.45	8.3	7.0	3.34
			19	14.3	8.1	4.08	13.4	6.2	4.36	12.6	5.8	4.64	11.5	5.4	4.64	8.8	4.4	3.48
			22	15.7	5.5	4.22	14.7	3.6	4.51	13.8	3.3	4.80	12.6	2.8	4.80	9.7	1.9	3.60
		25	16	13.9	12.8	3.98	13.0	12.3	4.25	12.2	12.0	4.53	11.1	11.1	4.53	8.6	8.6	3.39
			19	14.8	10.0	4.15	13.9	9.6	4.43	13.1	9.2	4.72	11.9	8.8	4.72	9.1	7.6	3.54
			22	16.3	7.3	4.29	15.2	7.0	4.59	14.3	6.6	4.88	13.0	6.2	4.88	10.0	5.2	3.66
		27	16	14.4	14.4	4.04	13.4	13.4	4.32	12.6	12.6	4.60	11.5	11.5	4.60	8.8	8.8	3.45
			19	15.3	11.8	4.22	14.4	11.4	4.51	13.5	11.0	4.80	12.3	10.5	4.80	9.5	9.5	3.60
			22	16.8	9.2	4.36	15.7	8.8	4.66	14.8	8.4	4.97	13.4	7.9	4.97	10.4	6.9	3.72
		29	16	14.6	14.6	4.05	13.6	13.6	4.33	12.8	12.8	4.61	11.7	11.7	4.61	9.0	9.0	3.46
			19	15.6	13.5	4.23	14.6	13.1	4.52	13.7	12.8	4.81	12.5	12.3	4.81	9.6	9.6	3.61
			22	17.1	10.9	4.37	16.0	10.4	4.68	15.0	10.1	4.98	13.6	9.6	4.98	10.5	8.5	3.73
		32	16	14.8	14.8	4.06	13.8	13.8	4.34	13.0	13.0	4.62	11.8	11.8	4.62	9.1	9.1	3.47
			19	15.8	15.8	4.24	14.8	14.8	4.53	13.9	13.9	4.82	12.6	12.6	4.82	9.7	9.7	3.62
			22	17.3	13.4	4.38	16.2	12.9	4.69	15.2	12.6	4.99	13.8	12.1	4.99	10.7	10.7	3.74
S-6071PU3E ×2 (S-6071PU3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	11.8	4.48	13.9	9.7	4.79	13.1	9.3	5.10	11.9	8.8	5.10	9.2	7.6	3.83
			19	15.9	8.9	4.67	14.9	6.8	5.00	14.0	6.4	5.32	12.7	5.9	5.32	9.8	4.8	3.99
			22	17.5	6.2	4.84	16.3	4.1	5.17	15.4	3.7	5.50	14.0	3.3	5.50	10.7	2.2	4.13
		25	16	15.4	13.8	4.56	14.4	13.3	4.87	13.6	12.9	5.19	12.3	12.3	5.19	9.5	9.5	3.89
			19	16.5	10.8	4.75	15.4	10.4	5.08	14.5	10.0	5.41	13.2	9.5	5.41	10.2	8.3	4.06
			22	18.1	8.1	4.92	16.9	7.6	5.26	15.9	7.1	5.60	14.4	6.8	5.60	11.1	5.6	4.20
		27	16	16.0	15.7	4.63	14.9	14.9	4.95	14.0	14.0	5.27	12.8	12.8	5.27	9.8	9.8	3.95
			19	17.0	12.7	4.83	15.9	12.3	5.17	15.0	11.9	5.50	13.6	11.4	5.50	10.5	10.0	4.13
			22	18.7	10.0	5.00	17.5	9.5	5.34	16.4	9.2	5.69	14.9	8.6	5.69	11.5	7.3	4.27
		29	16	16.2	16.2	4.64	15.2	15.2	4.96	14.3	14.3	5.29	13.0	13.0	5.29	10.0	10.0	3.96
			19	17.3	14.6	4.84	16.2	14.1	5.18	15.2	13.7	5.51	13.8	13.1	5.51	10.7	10.7	4.14
			22	19.0	11.8	5.01	17.7	11.4	5.36	16.7	10.9	5.70	15.2	10.2	5.70	11.7	9.2	4.28
		32	16	16.4	16.4	4.65	15.4	15.4	4.98	14.5	14.5	5.30	13.1	13.1	5.30	10.1	10.1	3.97
			19	17.6	17.2	4.86	16.4	16.4	5.19	15.4	15.4	5.53	14.0	14.0	5.53	10.8	10.8	4.15
			22	19.2	14.5	5.02	18.0	14.0	5.37	16.9	13.5	5.72	15.4	13.0	5.72	11.8	11.7	4.29

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			46°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PU3E (S-3650PU3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	23	16	3.7	3.2	0.515	3.5	2.6	0.581	3.3	2.5	0.652	3.0	2.4	0.757	2.5	2.2	0.734
			19	4.1	2.5	0.521	3.9	1.8	0.588	3.6	1.7	0.660	3.3	1.7	0.766	2.8	1.4	0.743
			22	4.8	1.7	0.526	4.5	1.1	0.594	4.2	1.0	0.666	3.9	0.9	0.772	3.3	0.6	0.749
		25	16	3.7	3.7	0.515	3.5	3.5	0.581	3.3	3.3	0.652	3.0	3.0	0.757	2.5	2.5	0.734
			19	4.1	3.0	0.521	3.9	2.8	0.588	3.6	2.7	0.660	3.3	2.7	0.766	2.8	2.4	0.743
			22	4.8	2.3	0.526	4.5	2.2	0.594	4.2	2.1	0.666	3.9	1.9	0.772	3.3	1.7	0.749
		27	16	3.7	3.7	0.515	3.5	3.5	0.581	3.3	3.3	0.652	3.0	3.0	0.757	2.5	2.5	0.734
			19	4.1	3.5	0.521	3.9	3.4	0.588	3.6	3.2	0.660	3.3	3.2	0.766	2.8	2.8	0.743
			22	4.8	2.8	0.526	4.5	2.6	0.594	4.2	2.6	0.666	3.9	2.5	0.772	3.3	2.2	0.749
		29	16	3.7	3.7	0.515	3.5	3.5	0.581	3.3	3.3	0.652	3.0	3.0	0.757	2.5	2.5	0.734
			19	4.1	4.0	0.521	3.9	3.9	0.588	3.6	3.6	0.660	3.3	3.3	0.766	2.8	2.8	0.743
			22	4.8	3.3	0.526	4.5	3.2	0.594	4.2	3.1	0.666	3.9	3.0	0.772	3.3	2.7	0.749
		32	16	3.7	3.7	0.515	3.5	3.5	0.581	3.3	3.3	0.652	3.0	3.0	0.757	2.5	2.5	0.734
			19	4.1	4.1	0.521	3.9	3.9	0.588	3.6	3.6	0.660	3.3	3.3	0.766	2.8	2.8	0.743
			22	4.8	4.1	0.526	4.5	4.0	0.594	4.2	3.9	0.666	3.9	3.8	0.772	3.3	3.3	0.749
S-3650PU3E (S-3650PU3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	4.1	0.906	4.9	3.4	1.02	4.5	3.2	1.15	4.2	3.1	1.33	3.5	2.7	1.29
			19	5.7	3.1	0.916	5.4	2.4	1.03	5.0	2.2	1.16	4.6	2.0	1.35	3.9	1.8	1.31
			22	6.4	2.1	0.925	6.0	1.4	1.04	5.6	1.3	1.17	5.2	1.2	1.36	4.4	0.9	1.32
		25	16	5.1	4.7	0.906	4.9	4.6	1.02	4.5	4.3	1.15	4.2	4.2	1.33	3.5	3.5	1.29
			19	5.7	3.6	0.916	5.4	3.6	1.03	5.0	3.4	1.16	4.6	3.2	1.35	3.9	3.0	1.31
			22	6.4	2.8	0.925	6.0	2.6	1.04	5.6	2.5	1.17	5.2	2.4	1.36	4.4	2.0	1.32
		27	16	5.1	5.1	0.906	4.9	4.9	1.02	4.5	4.5	1.15	4.2	4.2	1.33	3.5	3.5	1.29
			19	5.7	4.3	0.916	5.4	4.2	1.03	5.0	4.0	1.16	4.6	3.8	1.35	3.9	3.5	1.31
			22	6.4	3.3	0.925	6.0	3.2	1.04	5.6	3.1	1.17	5.2	3.0	1.36	4.4	2.6	1.32
		29	16	5.1	5.1	0.906	4.9	4.9	1.02	4.5	4.5	1.15	4.2	4.2	1.33	3.5	3.5	1.29
			19	5.7	4.9	0.916	5.4	4.9	1.03	5.0	4.6	1.16	4.6	4.4	1.35	3.9	3.9	1.31
			22	6.4	4.0	0.925	6.0	3.8	1.04	5.6	3.6	1.17	5.2	3.6	1.36	4.4	3.2	1.32
		32	16	5.1	5.1	0.906	4.9	4.9	1.02	4.5	4.5	1.15	4.2	4.2	1.33	3.5	3.5	1.29
			19	5.7	5.7	0.916	5.4	5.4	1.03	5.0	5.0	1.16	4.6	4.6	1.35	3.9	3.9	1.31
			22	6.4	4.9	0.925	6.0	4.7	1.04	5.6	4.5	1.17	5.2	4.4	1.36	4.4	4.1	1.32
S-6071PU3E (S-6071PU3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	23	16	6.2	4.9	1.16	5.9	4.1	1.30	5.4	3.8	1.46	5.0	3.7	1.70	4.5	3.4	1.90
			19	6.8	3.7	1.17	6.5	2.8	1.32	6.0	2.7	1.48	5.5	2.4	1.72	5.0	2.3	1.92
			22	7.6	2.5	1.18	7.2	1.7	1.33	6.7	1.5	1.49	6.2	1.3	1.73	5.6	1.0	1.94
		25	16	6.2	5.7	1.16	5.9	5.6	1.30	5.4	5.3	1.46	5.0	5.0	1.70	4.5	4.5	1.90
			19	6.8	4.5	1.17	6.5	4.3	1.32	6.0	4.2	1.48	5.5	3.9	1.72	5.0	3.8	1.92
			22	7.6	3.3	1.18	7.2	3.2	1.33	6.7	3.0	1.49	6.2	2.8	1.73	5.6	2.6	1.94
		27	16	6.2	6.2	1.16	5.9	5.9	1.30	5.4	5.4	1.46	5.0	5.0	1.70	4.5	4.5	1.90
			19	6.8	5.3	1.17	6.5	5.1	1.32	6.0	4.9	1.48	5.5	4.7	1.72	5.0	4.6	1.92
			22	7.6	4.0	1.18	7.2	3.9	1.33	6.7	3.8	1.49	6.2	3.6	1.73	5.6	3.3	1.94
		29	16	6.2	6.2	1.16	5.9	5.9	1.30	5.4	5.4	1.46	5.0	5.0	1.70	4.5	4.5	1.90
			19	6.8	6.0	1.17	6.5	5.8	1.32	6.0	5.7	1.48	5.5	5.4	1.72	5.0	5.0	1.92
			22	7.6	4.8	1.18	7.2	4.7	1.33	6.7	4.5	1.49	6.2	4.3	1.73	5.6	4.1	1.94
		32	16	6.2	6.2	1.16	5.9	5.9	1.30	5.4	5.4	1.46	5.0	5.0	1.70	4.5	4.5	1.90
			19	6.8	6.8	1.17	6.5	6.5	1.32	6.0	6.0	1.48	5.5	5.5	1.72	5.0	5.0	1.92
			22	7.6	5.9	1.18	7.2	5.8	1.33	6.7	5.7	1.49	6.2	5.5	1.73	5.6	5.2	1.94

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-6071PU3E (S-6071PU3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	6.3	2.66	8.1	5.4	2.89	7.9	5.3	3.11	7.1	4.9	2.88	2.8	2.8	1.06		
			19	9.0	4.8	2.78	8.7	3.8	3.01	8.4	3.7	3.24	7.5	3.4	3.00	2.9	1.6	1.10		
			22	9.9	3.4	2.88	9.5	2.5	3.11	9.2	2.4	3.35	8.3	2.1	3.11	3.2	0.4	1.14		
		25	16	8.7	7.3	2.71	8.4	7.2	2.93	8.1	7.0	3.16	7.3	6.7	2.93	2.9	2.8	1.07		
			19	9.3	5.8	2.83	9.0	5.8	3.06	8.7	5.5	3.30	7.8	5.2	3.05	3.0	3.0	1.12		
			22	10.2	4.5	2.92	9.9	4.3	3.17	9.5	4.2	3.41	8.6	3.9	3.16	3.3	2.0	1.16		
		27	16	9.0	8.3	2.75	8.7	8.2	2.98	8.4	8.0	3.21	7.6	7.6	2.98	2.9	2.9	1.09		
			19	9.6	6.8	2.87	9.3	6.7	3.11	9.0	6.5	3.35	8.1	6.1	3.11	3.2	3.1	1.14		
			22	10.6	5.4	2.97	10.2	5.3	3.22	9.9	5.2	3.47	8.9	4.8	3.21	3.5	2.9	1.18		
		29	16	9.2	9.2	2.76	8.9	8.9	2.99	8.6	8.6	3.22	7.7	7.7	2.98	3.0	3.0	1.09		
			19	9.8	7.7	2.88	9.5	7.6	3.12	9.1	7.4	3.36	8.2	7.1	3.11	3.2	3.2	1.14		
			22	10.7	6.3	2.98	10.4	6.2	3.23	10.0	6.1	3.47	9.0	5.7	3.22	3.5	3.5	1.18		
		32	16	9.3	9.3	2.77	9.0	9.0	3.00	8.7	8.7	3.23	7.8	7.8	2.99	3.0	3.0	1.10		
			19	9.9	9.1	2.89	9.6	9.0	3.13	9.3	8.8	3.37	8.3	8.3	3.12	3.2	3.2	1.14		
			22	10.9	7.7	2.99	10.5	7.5	3.24	10.2	7.4	3.48	9.1	7.1	3.23	3.6	3.6	1.18		
S-1014PU3E (S-1014PU3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	9.5	3.08	11.4	7.9	3.23	10.9	7.7	3.39	9.7	7.2	3.08	4.4	4.4	1.60		
			19	12.7	7.1	3.21	12.2	5.5	3.37	11.7	5.3	3.53	10.4	4.9	3.21	4.7	2.7	1.67		
			22	13.9	4.9	3.32	13.3	3.3	3.49	12.8	3.1	3.65	11.4	2.6	3.32	5.2	0.5	1.73		
		25	16	12.3	11.1	3.13	11.8	10.9	3.29	11.3	10.7	3.44	10.1	10.1	3.13	4.6	4.6	1.63		
			19	13.1	8.7	3.26	12.6	8.5	3.43	12.1	8.3	3.59	10.8	7.8	3.27	4.9	4.9	1.70		
			22	14.4	6.4	3.38	13.8	6.3	3.55	13.2	6.0	3.71	11.8	5.5	3.38	5.4	3.3	1.76		
		27	16	12.7	12.7	3.18	12.2	12.2	3.34	11.7	11.7	3.50	10.4	10.4	3.18	4.7	4.7	1.66		
			19	13.6	10.3	3.32	13.0	10.1	3.48	12.5	9.9	3.65	11.1	9.3	3.32	5.1	5.1	1.73		
			22	14.9	8.0	3.43	14.3	7.8	3.60	13.7	7.6	3.78	12.2	7.0	3.43	5.5	4.8	1.79		
		29	16	12.9	12.9	3.19	12.4	12.4	3.35	11.9	11.9	3.51	10.6	10.6	3.19	4.8	4.8	1.66		
			19	13.8	11.8	3.33	13.2	11.5	3.49	12.7	11.3	3.66	11.3	10.7	3.33	5.1	5.1	1.73		
			22	15.1	9.5	3.44	14.5	9.3	3.61	13.9	9.0	3.79	12.4	8.5	3.44	5.6	5.6	1.79		
		32	16	13.1	13.1	3.20	12.6	12.6	3.36	12.1	12.1	3.52	10.7	10.7	3.20	4.9	4.9	1.67		
			19	14.0	13.9	3.33	13.4	13.4	3.50	12.9	12.9	3.67	11.5	11.5	3.34	5.2	5.2	1.74		
			22	15.3	11.7	3.45	14.7	11.4	3.62	14.1	11.1	3.79	12.6	10.6	3.45	5.7	5.7	1.80		
S-1014PU3E (S-1014PU3E(125)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	10.2	3.84	12.8	8.5	4.03	12.2	8.2	4.22	10.9	7.6	3.84	4.5	4.5	1.62		
			19	14.2	7.8	4.00	13.6	6.0	4.20	13.1	5.9	4.40	11.6	5.4	4.00	4.8	2.8	1.69		
			22	15.5	5.5	4.14	14.9	3.8	4.35	14.3	3.5	4.55	12.8	3.1	4.14	5.3	0.5	1.75		
		25	16	13.7	11.8	3.90	13.2	11.6	4.10	12.7	11.4	4.29	11.3	10.7	3.90	4.7	4.7	1.65		
			19	14.7	9.5	4.07	14.1	9.1	4.27	13.5	9.0	4.48	12.1	8.2	4.07	5.0	5.0	1.72		
			22	16.1	7.0	4.21	15.5	6.8	4.42	14.8	6.7	4.63	13.2	6.1	4.21	5.5	3.5	1.78		
		27	16	14.2	13.5	3.96	13.7	13.3	4.16	13.1	13.0	4.36	11.7	11.7	3.97	4.8	4.8	1.68		
			19	15.2	11.0	4.14	14.6	10.9	4.34	14.0	10.5	4.55	12.5	9.8	4.14	5.2	5.2	1.75		
			22	16.6	8.7	4.28	16.0	8.4	4.49	15.3	8.3	4.71	13.7	7.6	4.28	5.7	5.0	1.81		
		29	16	14.4	14.4	3.97	13.9	13.9	4.17	13.3	13.3	4.37	11.8	11.8	3.98	4.9	4.9	1.68		
			19	15.4	12.5	4.15	14.8	12.2	4.35	14.2	12.0	4.56	12.7	11.4	4.15	5.3	5.3	1.76		
			22	16.9	10.2	4.29	16.2	9.9	4.50	15.6	9.8	4.72	13.9	9.0	4.29	5.8	5.8	1.82		
		32	16	14.6	14.6	3.98	14.1	14.1	4.18	13.5	13.5	4.38	12.0	12.0	3.99	5.0	5.0	1.69		
			19	15.6	14.8	4.16	15.0	14.5	4.36	14.4	14.3	4.57	12.8	12.8	4.16	5.3	5.3	1.76		
			22	17.1	12.4	4.30	16.5	12.2	4.52	15.8	12.0	4.73	14.1	11.2	4.30	5.8	5.8	1.82		
S-1014PU3E (S-1014PU3E(140)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	11.2	4.93	14.6	9.6	5.18	14.0	9.2	5.43	12.5	8.4	4.93	4.6	4.6	1.63		
			19	16.2	8.8	5.14	15.6	6.9	5.40	14.9	6.6	5.66	13.3	5.9	5.15	4.9	2.7	1.70		
			22	17.8	6.2	5.32	17.1	4.5	5.59	16.4	4.2	5.85	14.6	3.7	5.32	5.4	0.5	1.76		
		25	16	15.7	13.0	5.01	15.1	12.7	5.27	14.5	12.4	5.52	12.9	11.6	5.02	4.8	4.8	1.66		
			19	16.8	10.4	5.23	16.1	10.1	5.49	15.5	9.7	5.75	13.8	9.0	5.23	5.1	5.1	1.73		
			22	18.4	8.1	5.41	17.7	7.7	5.68	17.0	7.4	5.95	15.1	6.9	5.41	5.6	3.4	1.79		
		27	16	16.2	14.9	5.10	15.6	14.5	5.35	15.0	14.1	5.61	13.3	13.3	5.10	4.9	4.9	1.68		
			19	17.4	12.1	5.32	16.7	11.8	5.58	16.0	11.5	5.85	14.3	10.7	5.32	5.3	5.3	1.76		
			22	19.0	9.6	5.50	18.3	9.4	5.78	17.5	9.1	6.05	15.6	8.3	5.50	5.8	5.1	1.82		
		29	16	16.5	16.5	5.11	15.8	15.8	5.37	15.2	15.2	5.62	13.5	13.5	5.11	5.0	5.0	1.69		
			19	17.6	13.7	5.33	16.9	13.4	5.60	16.2	13.1	5.86	14.5	12.3	5.33	5.4	5.4	1.76		
			22	19.3	11.2	5.51	18.5	10.9	5.79	17.8	10.6	6.07	15.8	9.9	5.52	5.9	5.9	1.82		
		32	16	16.7	16.7	5.12	16.1	16.1	5.38	15.4	15.4	5.64	13.7	13.7	5.13	5.1	5.1	1.69		
			19	17.9	16.1	5.34	17.2	15.8	5.61	16.5	15.5	5.88	14.7	14.6	5.35	5.4	5.4	1.76		
			22	19.6	13.6	5.53	18.8	13.3	5.81	18.1	12.9	6.08	16.1	12.3	5.53	6.0	6.0	1.82		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PU3E×2 (S-3650PU3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	7.1	2.66	8.1	5.9	2.89	7.9	5.8	3.11	7.1	5.4	2.88	2.8	2.8	1.06		
			19	9.0	5.2	2.78	8.7	4.0	3.01	8.4	3.8	3.24	7.5	3.6	3.00	2.9	1.8	1.10		
			22	9.9	3.5	2.88	9.5	2.3	3.11	9.2	2.2	3.35	8.3	1.8	3.11	3.2	0.2	1.14		
		25	16	8.7	8.4	2.71	8.4	8.3	2.93	8.1	8.1	3.16	7.3	7.3	2.93	2.9	2.9	1.07		
			19	9.3	6.5	2.83	9.0	6.4	3.06	8.7	6.3	3.30	7.8	5.8	3.05	3.0	3.0	1.12		
			22	10.2	4.7	2.92	9.9	4.6	3.17	9.5	4.5	3.41	8.6	4.1	3.16	3.3	2.3	1.16		
		27	16	9.0	9.0	2.75	8.7	8.7	2.98	8.4	8.4	3.21	7.6	7.6	2.98	2.9	2.9	1.09		
			19	9.6	7.7	2.87	9.3	7.6	3.11	9.0	7.5	3.35	8.1	7.1	3.11	3.2	3.2	1.14		
			22	10.6	5.9	2.97	10.2	5.8	3.22	9.9	5.7	3.47	8.9	5.3	3.21	3.5	3.5	1.18		
		29	16	9.2	9.2	2.76	8.9	8.9	2.99	8.6	8.6	3.22	7.7	7.7	2.98	3.0	3.0	1.09		
			19	9.8	8.9	2.88	9.5	8.8	3.12	9.1	8.7	3.36	8.2	8.2	3.11	3.2	3.2	1.14		
			22	10.7	7.1	2.98	10.4	7.0	3.23	10.0	6.8	3.47	9.0	6.4	3.22	3.5	3.5	1.18		
		32	16	9.3	9.3	2.77	9.0	9.0	3.00	8.7	8.7	3.23	7.8	7.8	2.99	3.0	3.0	1.10		
			19	9.9	9.9	2.89	9.6	9.6	3.13	9.3	9.3	3.37	8.3	8.3	3.12	3.2	3.2	1.14		
			22	10.9	8.8	2.99	10.5	8.7	3.24	10.2	8.6	3.48	9.1	8.2	3.23	3.6	3.6	1.18		
S-3650PU3E×2 (S-3650PU3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	9.2	3.08	11.4	7.7	3.23	10.9	7.5	3.39	9.7	6.9	3.08	4.4	4.4	1.60		
			19	12.7	7.0	3.21	12.2	5.5	3.37	11.7	5.3	3.53	10.4	4.8	3.21	4.7	2.6	1.67		
			22	13.9	4.9	3.32	13.3	3.5	3.49	12.8	3.2	3.65	11.4	2.8	3.32	5.2	0.6	1.73		
		25	16	12.3	10.7	3.13	11.8	10.3	3.29	11.3	10.2	3.44	10.1	9.7	3.13	4.6	4.6	1.63		
			19	13.1	8.4	3.26	12.6	8.1	3.43	12.1	8.0	3.59	10.8	7.5	3.27	4.9	4.9	1.70		
			22	14.4	6.4	3.38	13.8	6.2	3.55	13.2	5.9	3.71	11.8	5.4	3.38	5.4	3.2	1.76		
		27	16	12.7	12.2	3.18	12.2	11.9	3.34	11.7	11.7	3.50	10.4	10.4	3.18	4.7	4.7	1.66		
			19	13.6	9.9	3.32	13.0	9.6	3.48	12.5	9.5	3.65	11.1	8.9	3.32	5.1	5.1	1.73		
			22	14.9	7.7	3.43	14.3	7.6	3.60	13.7	7.4	3.78	12.2	6.8	3.43	5.5	4.6	1.79		
		29	16	12.9	12.9	3.19	12.4	12.4	3.35	11.9	11.9	3.51	10.6	10.6	3.19	4.8	4.8	1.66		
			19	13.8	11.2	3.33	13.2	10.9	3.49	12.7	10.8	3.66	11.3	10.2	3.33	5.1	5.1	1.73		
			22	15.1	9.1	3.44	14.5	9.0	3.61	13.9	8.7	3.79	12.4	8.2	3.44	5.6	5.6	1.79		
		32	16	13.1	13.1	3.20	12.6	12.6	3.36	12.1	12.1	3.52	10.7	10.7	3.20	4.9	4.9	1.67		
			19	14.0	13.3	3.33	13.4	13.1	3.50	12.9	12.8	3.67	11.5	11.5	3.34	5.2	5.2	1.74		
			22	15.3	11.2	3.45	14.7	10.9	3.62	14.1	10.7	3.79	12.6	10.0	3.45	5.7	5.7	1.80		
S-6071PU3E×2 (S-6071PU3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	10.8	3.84	12.8	9.0	4.03	12.2	8.8	4.22	10.9	8.2	3.84	4.5	4.5	1.62		
			19	14.2	8.1	4.00	13.6	6.2	4.20	13.1	6.0	4.40	11.6	5.5	4.00	4.8	3.0	1.69		
			22	15.5	5.5	4.14	14.9	3.6	4.35	14.3	3.4	4.55	12.8	2.9	4.14	5.3	0.4	1.75		
		25	16	13.7	12.7	3.90	13.2	12.5	4.10	12.7	12.2	4.29	11.3	11.3	3.90	4.7	4.7	1.65		
			19	14.7	9.9	4.07	14.1	9.6	4.27	13.5	9.4	4.48	12.1	8.9	4.07	5.0	5.0	1.72		
			22	16.1	7.3	4.21	15.5	7.0	4.42	14.8	6.8	4.63	13.2	6.3	4.21	5.5	3.7	1.78		
		27	16	14.2	14.2	3.96	13.7	13.7	4.16	13.1	13.1	4.36	11.7	11.7	3.97	4.8	4.8	1.68		
			19	15.2	11.7	4.14	14.6	11.5	4.34	14.0	11.2	4.55	12.5	10.6	4.14	5.2	5.2	1.75		
			22	16.6	9.1	4.28	16.0	8.8	4.49	15.3	8.6	4.71	13.7	8.0	4.28	5.7	5.4	1.81		
		29	16	14.4	14.4	3.97	13.9	13.9	4.17	13.3	13.3	4.37	11.8	11.8	3.98	4.9	4.9	1.68		
			19	15.4	13.4	4.15	14.8	13.2	4.35	14.2	12.9	4.56	12.7	12.3	4.15	5.3	5.3	1.76		
			22	16.9	10.8	4.29	16.2	10.5	4.50	15.6	10.3	4.72	13.9	9.7	4.29	5.8	5.8	1.82		
		32	16	14.6	14.6	3.98	14.1	14.1	4.18	13.5	13.5	4.38	12.0	12.0	3.99	5.0	5.0	1.69		
			19	15.6	15.6	4.16	15.0	15.0	4.36	14.4	14.4	4.57	12.8	12.8	4.16	5.3	5.3	1.76		
			22	17.1	13.3	4.30	16.5	13.0	4.52	15.8	12.8	4.73	14.1	12.2	4.30	5.8	5.8	1.82		
S-6071PU3E×2 (S-6071PU3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	11.9	4.93	14.6	9.9	5.18	14.0	9.7	5.43	12.5	9.0	4.93	4.6	4.6	1.63		
			19	16.2	9.0	5.14	15.6	7.1	5.40	14.9	6.8	5.66	13.3	6.1	5.15	4.9	2.9	1.70		
			22	17.8	6.3	5.32	17.1	4.3	5.59	16.4	4.1	5.85	14.6	3.5	5.32	5.4	0.3	1.76		
		25	16	15.7	13.9	5.01	15.1	13.6	5.27	14.5	13.3	5.52	12.9	12.6	5.02	4.8	4.8	1.66		
			19	16.8	10.9	5.23	16.1	10.7	5.49	15.5	10.4	5.75	13.8	9.7	5.23	5.1	5.1	1.73		
			22	18.4	8.2	5.41	17.7	7.9	5.68	17.0	7.6	5.95	15.1	7.0	5.41	5.6	3.7	1.79		
		27	16	16.2	15.9	5.10	15.6	15.6	5.35	15.0	15.0	5.61	13.3	13.3	5.10	4.9	4.9	1.68		
			19	17.4	12.9	5.32	16.7	12.6	5.58	16.0	12.3	5.85	14.3	11.6	5.32	5.3	5.3	1.76		
			22	19.0	10.1	5.50	18.3	9.9	5.78	17.5	9.6	6.05	15.6	8.9	5.50	5.8	5.6	1.82		
		29	16	16.5	16.5	5.11	15.8	15.8	5.37	15.2	15.2	5.62	13.5	13.5	5.11	5.0	5.0	1.69		
			19	17.6	14.7	5.33	16.9	14.4	5.60	16.2	14.1	5.86	14.5	13.4	5.33	5.4	5.4	1.76		
			22	19.3	11.9	5.51	18.5	11.7	5.79	17.8	11.4	6.07	15.8	10.6	5.52	5.9	5.9	1.82		
		32	16	16.7	16.7	5.12	16.1	16.1	5.38	15.4	15.4	5.64	13.7	13.7	5.13	5.1	5.1	1.69		
			19	17.9	17.4	5.34	17.2	17.0	5.61	16.5	16.5	5.88	14.7	14.7	5.35	5.4	5.4	1.76		
			22	19.6	14.5	5.53	18.8	14.3	5.81	18.1	14.0	6.08	16.1	13.2	5.53	6.0	6.0	1.82		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-1. 4-Way Cassette Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			48°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PU3E×3 (S-3650PU3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	10.4	3.08	11.4	8.5	3.23	10.9	8.3	3.39	9.7	7.7	3.08	4.4	4.4	1.60
			19	12.7	7.6	3.21	12.2	5.7	3.37	11.7	5.5	3.53	10.4	5.0	3.21	4.7	3.0	1.67
			22	13.9	4.9	3.32	13.3	3.1	3.49	12.8	2.9	3.65	11.4	2.4	3.32	5.2	0.3	1.73
		25	16	12.3	12.2	3.13	11.8	11.8	3.29	11.3	11.3	3.44	10.1	10.1	3.13	4.6	4.6	1.63
			19	13.1	9.4	3.26	12.6	9.2	3.43	12.1	9.0	3.59	10.8	8.5	3.27	4.9	4.9	1.70
			22	14.4	6.7	3.38	13.8	6.5	3.55	13.2	6.3	3.71	11.8	5.8	3.38	5.4	3.6	1.76
		27	16	12.7	12.7	3.18	12.2	12.2	3.34	11.7	11.7	3.50	10.4	10.4	3.18	4.7	4.7	1.66
			19	13.6	11.3	3.32	13.0	11.0	3.48	12.5	10.8	3.65	11.1	10.3	3.32	5.1	5.1	1.73
			22	14.9	8.6	3.43	14.3	8.3	3.60	13.7	8.1	3.78	12.2	7.6	3.43	5.5	5.5	1.79
		29	16	12.9	12.9	3.19	12.4	12.4	3.35	11.9	11.9	3.51	10.6	10.6	3.19	4.8	4.8	1.66
			19	13.8	13.0	3.33	13.2	12.8	3.49	12.7	12.6	3.66	11.3	11.3	3.33	5.1	5.1	1.73
			22	15.1	10.3	3.44	14.5	10.1	3.61	13.9	9.9	3.79	12.4	9.3	3.44	5.6	5.6	1.79
		32	16	13.1	13.1	3.20	12.6	12.6	3.36	12.1	12.1	3.52	10.7	10.7	3.20	4.9	4.9	1.67
			19	14.0	14.0	3.33	13.4	13.4	3.50	12.9	12.9	3.67	11.5	11.5	3.34	5.2	5.2	1.74
			22	15.3	12.9	3.45	14.7	12.7	3.62	14.1	12.4	3.79	12.6	11.9	3.45	5.7	5.7	1.80
S-3650PU3E×3 (S-3650PU3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	11.4	3.84	12.8	9.3	4.03	12.2	9.1	4.22	10.9	8.5	3.84	4.5	4.5	1.62
			19	14.2	8.4	4.00	13.6	6.3	4.20	13.1	6.1	4.40	11.6	5.6	4.00	4.8	3.1	1.69
			22	15.5	5.5	4.14	14.9	3.5	4.35	14.3	3.3	4.55	12.8	2.8	4.14	5.3	0.2	1.75
		25	16	13.7	13.4	3.90	13.2	13.1	4.10	12.7	12.7	4.29	11.3	11.3	3.90	4.7	4.7	1.65
			19	14.7	10.3	4.07	14.1	10.1	4.27	13.5	9.8	4.48	12.1	9.3	4.07	5.0	5.0	1.72
			22	16.1	7.4	4.21	15.5	7.2	4.42	14.8	7.0	4.63	13.2	6.5	4.21	5.5	3.9	1.78
		27	16	14.2	14.2	3.96	13.7	13.7	4.16	13.1	13.1	4.36	11.7	11.7	3.97	4.8	4.8	1.68
			19	15.2	12.3	4.14	14.6	12.1	4.34	14.0	11.8	4.55	12.5	11.2	4.14	5.2	5.2	1.75
			22	16.6	9.4	4.28	16.0	9.2	4.49	15.3	9.0	4.71	13.7	8.4	4.28	5.7	5.7	1.81
		29	16	14.4	14.4	3.97	13.9	13.9	4.17	13.3	13.3	4.37	11.8	11.8	3.98	4.9	4.9	1.68
			19	15.4	14.2	4.15	14.8	13.9	4.35	14.2	13.7	4.56	12.7	12.7	4.15	5.3	5.3	1.76
			22	16.9	11.3	4.29	16.2	11.0	4.50	15.6	10.8	4.72	13.9	10.2	4.29	5.8	5.8	1.82
		32	16	14.6	14.6	3.98	14.1	14.1	4.18	13.5	13.5	4.38	12.0	12.0	3.99	5.0	5.0	1.69
			19	15.6	15.6	4.16	15.0	15.0	4.36	14.4	14.4	4.57	12.8	12.8	4.16	5.3	5.3	1.76
			22	17.1	14.0	4.30	16.5	13.8	4.52	15.8	13.5	4.73	14.1	12.9	4.30	5.8	5.8	1.82
S-3650PU3E×3 (S-3650PU3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	12.6	4.93	14.6	10.4	5.18	14.0	10.1	5.43	12.5	9.4	4.93	4.6	4.6	1.63
			19	16.2	9.3	5.14	15.6	7.2	5.40	14.9	6.9	5.66	13.3	6.3	5.15	4.9	3.1	1.70
			22	17.8	6.3	5.32	17.1	4.1	5.59	16.4	3.9	5.85	14.6	3.3	5.32	5.4	0.1	1.76
		25	16	15.7	14.7	5.01	15.1	14.4	5.27	14.5	14.2	5.52	12.9	12.9	5.02	4.8	4.8	1.66
			19	16.8	11.5	5.23	16.1	11.2	5.49	15.5	10.9	5.75	13.8	10.1	5.23	5.1	5.1	1.73
			22	18.4	8.4	5.41	17.7	8.1	5.68	17.0	7.9	5.95	15.1	7.2	5.41	5.6	3.9	1.79
		27	16	16.2	16.2	5.10	15.6	15.6	5.35	15.0	15.0	5.61	13.3	13.3	5.10	4.9	4.9	1.68
			19	17.4	13.6	5.32	16.7	13.3	5.58	16.0	13.1	5.85	14.3	12.4	5.32	5.3	5.3	1.76
			22	19.0	10.5	5.50	18.3	10.2	5.78	17.5	9.9	6.05	15.6	9.3	5.50	5.8	5.8	1.82
		29	16	16.5	16.5	5.11	15.8	15.8	5.37	15.2	15.2	5.62	13.5	13.5	5.11	5.0	5.0	1.69
			19	17.6	15.6	5.33	16.9	15.3	5.60	16.2	15.0	5.86	14.5	14.3	5.33	5.4	5.4	1.76
			22	19.3	12.5	5.51	18.5	12.2	5.79	17.8	11.9	6.07	15.8	11.3	5.52	5.9	5.9	1.82
		32	16	16.7	16.7	5.12	16.1	16.1	5.38	15.4	15.4	5.64	13.7	13.7	5.13	5.1	5.1	1.69
			19	17.9	17.9	5.34	17.2	17.2	5.61	16.5	16.5	5.88	14.7	14.7	5.35	5.4	5.4	1.76
			22	19.6	15.5	5.53	18.8	15.1	5.81	18.1	14.8	6.08	16.1	14.2	5.53	6.0	6.0	1.82
S-3650PU3E×4 (S-3650PU3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	12.7	3.84	12.8	10.3	4.03	12.2	10.0	4.22	10.9	9.5	3.84	4.5	4.5	1.62
			19	14.2	9.1	4.00	13.6	6.6	4.20	13.1	6.4	4.40	11.6	5.9	4.00	4.8	3.5	1.69
			22	15.5	5.5	4.14	14.9	3.2	4.35	14.3	2.9	4.55	12.8	2.4	4.14	5.3	0.1	1.75
		25	16	13.7	13.7	3.90	13.2	13.2	4.10	12.7	12.7	4.29	11.3	11.3	3.90	4.7	4.7	1.65
			19	14.7	11.5	4.07	14.1	11.3	4.27	13.5	11.0	4.48	12.1	10.5	4.07	5.0	5.0	1.72
			22	16.1	7.9	4.21	15.5	7.7	4.42	14.8	7.5	4.63	13.2	6.9	4.21	5.5	4.5	1.78
		27	16	14.2	14.2	3.96	13.7	13.7	4.16	13.1	13.1	4.36	11.7	11.7	3.97	4.8	4.8	1.68
			19	15.2	13.9	4.14	14.6	13.6	4.34	14.0	13.2	4.55	12.5	12.5	4.14	5.2	5.2	1.75
			22	16.6	10.3	4.28	16.0	10.1	4.49	15.3	9.7	4.71	13.7	9.3	4.28	5.7	5.7	1.81
		29	16	14.4	14.4	3.97	13.9	13.9	4.17	13.3	13.3	4.37	11.8	11.8	3.98	4.9	4.9	1.68
			19	15.4	15.4	4.15	14.8	14.8	4.35	14.2	14.2	4.56	12.7	12.7	4.15	5.3	5.3	1.76
			22	16.9	12.6	4.29	16.2	12.3	4.50	15.6	12.1	4.72	13.9	11.6	4.29	5.8	5.8	1.82
		32	16	14.6	14.6	3.98	14.1	14.1	4.18	13.5	13.5	4.38	12.0	12.0	3.99	5.0	5.0	1.69
			19	15.6	15.6	4.16	15.0	15.0	4.36	14.4	14.4	4.57	12.8	12.8	4.16	5.3	5.3	1.76
			22	17.1	16.0	4.30	16.5	15.7	4.52	15.8	15.5	4.73	14.1	14.1	4.30	5.8	5.8	1.82

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PF3E (S-3650PF3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	23	16	3.4	2.9	0.675	3.2	2.3	0.793	3.0	2.2	0.905	2.9	2.2	1.03	2.8	2.1	1.10
			19	3.8	2.1	0.671	3.6	1.5	0.789	3.4	1.4	0.900	3.2	1.3	1.02	3.1	1.3	1.09
			22	4.2	1.2	0.662	4.0	0.8	0.777	3.8	0.6	0.887	3.5	0.6	1.01	3.4	0.5	1.08
		25	16	3.4	3.4	0.675	3.2	3.2	0.793	3.0	3.0	0.905	2.9	2.9	1.03	2.8	2.8	1.10
			19	3.8	2.6	0.671	3.6	2.5	0.789	3.4	2.4	0.900	3.2	2.3	1.02	3.1	2.4	1.09
			22	4.2	1.8	0.662	4.0	1.8	0.777	3.8	1.6	0.887	3.5	1.6	1.01	3.4	1.5	1.08
		27	16	3.4	3.4	0.675	3.2	3.2	0.793	3.0	3.0	0.905	2.9	2.9	1.03	2.8	2.8	1.10
			19	3.8	3.1	0.671	3.6	3.0	0.789	3.4	2.9	0.900	3.2	2.9	1.02	3.1	2.9	1.09
			22	4.2	2.3	0.662	4.0	2.3	0.777	3.8	2.1	0.887	3.5	2.1	1.01	3.4	2.0	1.08
		29	16	3.4	3.4	0.675	3.2	3.2	0.793	3.0	3.0	0.905	2.9	2.9	1.03	2.8	2.8	1.10
			19	3.8	3.6	0.671	3.6	3.6	0.789	3.4	3.4	0.900	3.2	3.2	1.02	3.1	3.1	1.09
			22	4.2	2.8	0.662	4.0	2.8	0.777	3.8	2.6	0.887	3.5	2.7	1.01	3.4	2.5	1.08
		32	16	3.4	3.4	0.675	3.2	3.2	0.793	3.0	3.0	0.905	2.9	2.9	1.03	2.8	2.8	1.10
			19	3.8	3.8	0.671	3.6	3.6	0.789	3.4	3.4	0.900	3.2	3.2	1.02	3.1	3.1	1.09
			22	4.2	3.6	0.662	4.0	3.5	0.777	3.8	3.4	0.887	3.5	3.4	1.01	3.4	3.3	1.08
S-3650PF3E (S-3650PF3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	4.0	1.36	4.8	3.1	1.57	4.6	3.1	1.79	4.2	3.0	2.03	4.0	2.7	2.17
			19	5.6	2.9	1.37	5.3	2.2	1.58	5.0	2.0	1.80	4.6	1.9	2.04	4.3	1.9	2.19
			22	6.1	1.9	1.37	5.8	1.2	1.58	5.5	1.1	1.80	5.1	0.9	2.04	4.8	0.8	2.19
		25	16	5.1	4.6	1.36	4.8	4.3	1.57	4.6	4.3	1.79	4.2	4.2	2.03	4.0	3.9	2.17
			19	5.6	3.5	1.37	5.3	3.4	1.58	5.0	3.2	1.80	4.6	3.1	2.04	4.3	3.0	2.19
			22	6.1	2.5	1.37	5.8	2.3	1.58	5.5	2.2	1.80	5.1	2.1	2.04	4.8	2.0	2.19
		27	16	5.1	5.1	1.36	4.8	4.8	1.57	4.6	4.6	1.79	4.2	4.2	2.03	4.0	4.0	2.17
			19	5.6	4.2	1.37	5.3	4.1	1.58	5.0	3.9	1.80	4.6	3.7	2.04	4.3	3.7	2.19
			22	6.1	3.1	1.37	5.8	2.9	1.58	5.5	2.8	1.80	5.1	2.7	2.04	4.8	2.6	2.19
		29	16	5.1	5.1	1.36	4.8	4.8	1.57	4.6	4.6	1.79	4.2	4.2	2.03	4.0	4.0	2.17
			19	5.6	4.7	1.37	5.3	4.6	1.58	5.0	4.4	1.80	4.6	4.3	2.04	4.3	4.3	2.19
			22	6.1	3.7	1.37	5.8	3.5	1.58	5.5	3.4	1.80	5.1	3.3	2.04	4.8	3.2	2.19
		32	16	5.1	5.1	1.36	4.8	4.8	1.57	4.6	4.6	1.79	4.2	4.2	2.03	4.0	4.0	2.17
			19	5.6	5.6	1.37	5.3	5.3	1.58	5.0	5.0	1.80	4.6	4.6	2.04	4.3	4.3	2.19
			22	6.1	4.5	1.37	5.8	4.4	1.58	5.5	4.3	1.80	5.1	4.2	2.04	4.8	4.0	2.19
S-6071PF3E (S-6071PF3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	5.9	4.7	1.26	5.6	3.7	1.42	5.2	3.6	1.59	4.7	3.4	1.85	4.5	3.3	1.99
			19	6.5	3.5	1.27	6.1	2.5	1.44	5.7	2.4	1.61	5.2	2.2	1.87	5.0	2.0	2.01
			22	7.3	2.3	1.28	6.8	1.4	1.45	6.4	1.2	1.62	5.9	1.0	1.88	5.6	0.9	2.03
		25	16	5.9	5.5	1.26	5.6	5.3	1.42	5.2	5.1	1.59	4.7	4.7	1.85	4.5	4.5	1.99
			19	6.5	4.2	1.27	6.1	4.0	1.44	5.7	3.9	1.61	5.2	3.7	1.87	5.0	3.6	2.01
			22	7.3	3.0	1.28	6.8	2.9	1.45	6.4	2.7	1.62	5.9	2.5	1.88	5.6	2.4	2.03
		27	16	5.9	5.9	1.26	5.6	5.6	1.42	5.2	5.2	1.59	4.7	4.7	1.85	4.5	4.5	1.99
			19	6.5	5.0	1.27	6.1	4.8	1.44	5.7	4.7	1.61	5.2	4.5	1.87	5.0	4.3	2.01
			22	7.3	3.8	1.28	6.8	3.6	1.45	6.4	3.5	1.62	5.9	3.3	1.88	5.6	3.2	2.03
		29	16	5.9	5.9	1.26	5.6	5.6	1.42	5.2	5.2	1.59	4.7	4.7	1.85	4.5	4.5	1.99
			19	6.5	5.8	1.27	6.1	5.6	1.44	5.7	5.5	1.61	5.2	5.2	1.87	5.0	5.0	2.01
			22	7.3	4.6	1.28	6.8	4.4	1.45	6.4	4.3	1.62	5.9	4.1	1.88	5.6	4.0	2.03
		32	16	5.9	5.9	1.26	5.6	5.6	1.42	5.2	5.2	1.59	4.7	4.7	1.85	4.5	4.5	1.99
			19	6.5	6.5	1.27	6.1	6.1	1.44	5.7	5.7	1.61	5.2	5.2	1.87	5.0	5.0	2.01
			22	7.3	5.7	1.28	6.8	5.6	1.45	6.4	5.4	1.62	5.9	5.2	1.88	5.6	5.1	2.03
S-6071PF3E (S-6071PF3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	6.8	5.1	1.66	6.5	4.2	1.87	6.2	4.0	2.11	5.5	3.7	2.30	5.0	3.5	2.38
			19	7.5	3.9	1.69	7.1	3.0	1.90	6.8	2.8	2.14	6.1	2.5	2.34	5.5	2.2	2.42
			22	8.4	2.7	1.72	8.0	1.8	1.93	7.6	1.7	2.17	6.8	1.3	2.38	6.2	1.1	2.46
		25	16	6.8	5.9	1.66	6.5	5.8	1.87	6.2	5.6	2.11	5.5	5.2	2.30	5.0	5.0	2.38
			19	7.5	4.7	1.69	7.1	4.5	1.90	6.8	4.3	2.14	6.1	4.1	2.34	5.5	3.8	2.42
			22	8.4	3.4	1.72	8.0	3.3	1.93	7.6	3.2	2.17	6.8	2.8	2.38	6.2	2.6	2.46
		27	16	6.8	6.7	1.66	6.5	6.5	1.87	6.2	6.2	2.11	5.5	5.5	2.30	5.0	5.0	2.38
			19	7.5	5.4	1.69	7.1	5.3	1.90	6.8	5.1	2.14	6.1	4.8	2.34	5.5	4.5	2.42
			22	8.4	4.2	1.72	8.0	4.1	1.93	7.6	3.9	2.17	6.8	3.5	2.38	6.2	3.3	2.46
		29	16	6.8	6.8	1.66	6.5	6.5	1.87	6.2	6.2	2.11	5.5	5.5	2.30	5.0	5.0	2.38
			19	7.5	6.2	1.69	7.1	6.0	1.90	6.8	5.8	2.14	6.1	5.6	2.34	5.5	5.3	2.42
			22	8.4	4.9	1.72	8.0	4.8	1.93	7.6	4.7	2.17	6.8	4.3	2.38	6.2	4.2	2.46
		32	16	6.8	6.8	1.66	6.5	6.5	1.87	6.2	6.2	2.11	5.5	5.5	2.30	5.0	5.0	2.38
			19	7.5	7.3	1.69	7.1	7.1	1.90	6.8	6.8	2.14	6.1	6.1	2.34	5.5	5.5	2.42
			22	8.4	6.1	1.72	8.0	6.0	1.93	7.6	5.8	2.17	6.8	5.4	2.38	6.2	5.3	2.46

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)															
				25°C			30°C			35°C			40°C			43°C			
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	
S-1014PF3E (S-1014PF3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.3	8.8	3.94	10.6	7.3	4.22	10.0	6.9	4.49	9.1	6.5	4.49	7.0	5.6	3.37	
			19	12.1	6.7	4.11	11.3	5.2	4.40	10.6	4.9	4.68	9.7	4.5	4.68	7.5	3.7	3.51	
			22	13.3	4.8	4.26	12.4	3.3	4.55	11.7	3.0	4.84	10.6	2.6	4.84	8.2	1.8	3.63	
		25	16	11.7	10.2	4.01	11.0	10.0	4.29	10.3	9.6	4.56	9.4	9.1	4.56	7.2	7.2	3.42	
			19	12.5	8.1	4.18	11.7	7.8	4.47	11.0	7.5	4.76	10.0	7.1	4.76	7.7	6.1	3.57	
			22	13.7	6.1	4.33	12.8	5.8	4.63	12.1	5.5	4.93	11.0	5.1	4.93	8.5	4.3	3.69	
		27	16	12.1	11.7	4.08	11.3	11.3	4.36	10.7	10.7	4.64	9.7	9.7	4.64	7.5	7.5	3.48	
			19	13.0	9.5	4.25	12.1	9.1	4.55	11.4	8.7	4.84	10.4	8.4	4.84	8.0	7.5	3.63	
			22	14.2	7.5	4.40	13.3	7.2	4.70	12.5	6.9	5.01	11.4	6.3	5.01	8.7	5.6	3.76	
		29	16	12.3	12.3	4.09	11.5	11.5	4.37	10.8	10.8	4.65	9.8	9.8	4.65	7.6	7.6	3.49	
			19	13.1	10.7	4.26	12.3	10.4	4.56	11.6	10.1	4.85	10.5	9.6	4.85	8.1	8.1	3.64	
			22	14.4	8.8	4.41	13.5	8.5	4.71	12.7	8.2	5.02	11.5	7.7	5.02	8.9	6.8	3.76	
		32	16	12.5	12.5	4.10	11.7	11.7	4.38	11.0	11.0	4.66	10.0	10.0	4.66	7.7	7.7	3.50	
			19	13.3	12.7	4.27	12.5	12.3	4.57	11.7	11.7	4.86	10.7	10.7	4.86	8.2	8.2	3.65	
			22	14.6	10.7	4.42	13.7	10.3	4.73	12.9	10.0	5.03	11.7	9.6	5.03	9.0	8.6	3.77	
S-1014PF3E (S-1014PF3E(125)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.4	9.9	3.99	12.6	8.2	4.27	11.8	7.9	4.54	10.7	7.4	4.54	8.3	6.3	3.41	
			19	14.3	7.6	4.16	13.4	6.1	4.45	12.6	5.7	4.74	11.5	5.2	4.74	8.8	4.1	3.56	
			22	15.7	5.6	4.31	14.7	4.0	4.61	13.8	3.7	4.90	12.6	3.2	4.90	9.7	2.2	3.68	
		25	16	13.9	11.4	4.06	13.0	11.0	4.34	12.2	10.7	4.62	11.1	10.1	4.62	8.6	8.6	3.47	
			19	14.8	9.2	4.23	13.9	8.8	4.53	13.1	8.4	4.82	11.9	7.9	4.82	9.1	6.8	3.62	
			22	16.3	7.0	4.38	15.2	6.8	4.68	14.3	6.4	4.99	13.0	5.9	4.99	10.0	4.9	3.74	
		27	16	14.4	12.9	4.13	13.4	12.5	4.41	12.6	12.1	4.70	11.5	11.5	4.70	8.8	8.8	3.52	
			19	15.3	10.7	4.30	14.4	10.3	4.60	13.5	9.9	4.90	12.3	9.4	4.90	9.5	8.3	3.68	
			22	16.8	8.7	4.45	15.7	8.2	4.76	14.8	7.9	5.07	13.4	7.3	5.07	10.4	6.2	3.80	
		29	16	14.6	14.4	4.14	13.6	13.6	4.42	12.8	12.8	4.71	11.7	11.7	4.71	9.0	9.0	3.53	
			19	15.6	12.0	4.32	14.6	11.6	4.61	13.7	11.3	4.91	12.5	10.8	4.91	9.6	9.5	3.68	
			22	17.1	9.9	4.46	16.0	9.6	4.77	15.0	9.2	5.08	13.6	8.7	5.08	10.5	7.5	3.81	
		32	16	14.8	14.8	4.15	13.8	13.8	4.43	13.0	13.0	4.72	11.8	11.8	4.72	9.1	9.1	3.54	
			19	15.8	14.1	4.33	14.8	13.7	4.63	13.9	13.2	4.92	12.6	12.6	4.92	9.7	9.7	3.69	
			22	17.3	11.9	4.48	16.2	11.6	4.78	15.2	11.1	5.09	13.8	10.6	5.09	10.7	9.5	3.82	
S-1014PF3E (S-1014PF3E(140)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	10.8	4.77	13.9	9.0	5.10	13.1	8.6	5.43	11.9	8.0	5.43	9.2	6.8	4.08	
			19	15.9	8.4	4.98	14.9	6.5	5.32	14.0	6.2	5.67	12.7	5.6	5.67	9.8	4.5	4.25	
			22	17.5	6.1	5.15	16.3	4.3	5.51	15.4	4.1	5.86	14.0	3.5	5.86	10.7	2.4	4.40	
		25	16	15.4	12.3	4.85	14.4	12.0	5.19	13.6	11.5	5.53	12.3	10.9	5.53	9.5	9.5	4.14	
			19	16.5	10.0	5.06	15.4	9.5	5.41	14.5	9.2	5.76	13.2	8.6	5.76	10.2	7.2	4.32	
			22	18.1	7.8	5.24	16.9	7.3	5.60	15.9	6.9	5.96	14.4	6.4	5.96	11.1	5.2	4.47	
		27	16	16.0	14.0	4.94	14.9	13.6	5.28	14.0	13.1	5.62	12.8	12.5	5.62	9.8	9.8	4.21	
			19	17.0	11.6	5.15	15.9	11.1	5.50	15.0	10.7	5.86	13.6	10.1	5.86	10.5	8.8	4.40	
			22	18.7	9.4	5.33	17.5	8.9	5.69	16.4	8.5	6.06	14.9	7.9	6.06	11.5	6.7	4.55	
		29	16	16.2	15.5	4.95	15.2	15.1	5.29	14.3	14.2	5.63	13.0	13.0	5.63	10.0	10.0	4.22	
			19	17.3	13.1	5.16	16.2	12.5	5.52	15.2	12.0	5.87	13.8	11.6	5.87	10.7	10.2	4.41	
			22	19.0	10.7	5.34	17.7	10.2	5.71	16.7	9.9	6.08	15.2	9.4	6.08	11.7	8.0	4.56	
		32	16	16.4	16.4	4.96	15.4	15.4	5.30	14.5	14.5	5.65	13.1	13.1	5.65	10.1	10.1	4.23	
			19	17.6	15.3	5.17	16.4	14.6	5.53	15.4	14.3	5.89	14.0	13.7	5.89	10.8	10.8	4.42	
			22	19.2	12.8	5.35	18.0	12.5	5.72	16.9	12.0	6.09	15.4	11.4	6.09	11.8	10.1	4.57	

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)															
				25°C			30°C			35°C			40°C			43°C			
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	
S-3650PF3E ×2 (S-3650PF3E(50)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.3	8.8	4.01	10.6	7.2	4.29	10.0	6.9	4.56	9.1	6.5	4.56	7.0	5.6	3.42	
			19	12.1	6.7	4.18	11.3	5.1	4.47	10.6	4.9	4.76	9.7	4.5	4.76	7.5	3.6	3.57	
			22	13.3	4.7	4.33	12.4	3.2	4.62	11.7	2.9	4.92	10.6	2.5	4.92	8.2	1.7	3.69	
		25	16	11.7	10.1	4.08	11.0	10.0	4.36	10.3	9.6	4.64	9.4	9.1	4.64	7.2	7.2	3.48	
			19	12.5	8.1	4.25	11.7	7.7	4.55	11.0	7.5	4.84	10.0	7.0	4.84	7.7	6.0	3.63	
			22	13.7	6.1	4.40	12.8	5.8	4.70	12.1	5.5	5.01	11.0	5.1	5.01	8.5	4.2	3.76	
		27	16	12.1	11.7	4.14	11.3	11.3	4.43	10.7	10.7	4.72	9.7	9.7	4.72	7.5	7.5	3.54	
			19	13.0	9.5	4.32	12.1	9.1	4.62	11.4	8.8	4.92	10.4	8.4	4.92	8.0	7.5	3.69	
			22	14.2	7.5	4.47	13.3	7.2	4.78	12.5	6.8	5.09	11.4	6.4	5.09	8.7	5.5	3.82	
		29	16	12.3	12.3	4.15	11.5	11.5	4.44	10.8	10.8	4.73	9.8	9.8	4.73	7.6	7.6	3.55	
			19	13.1	10.8	4.33	12.3	10.4	4.63	11.6	10.1	4.93	10.5	9.7	4.93	8.1	8.1	3.70	
			22	14.4	8.8	4.48	13.5	8.4	4.79	12.7	8.1	5.10	11.5	7.7	5.10	8.9	6.8	3.83	
		32	16	12.5	12.5	4.16	11.7	11.7	4.45	11.0	11.0	4.74	10.0	10.0	4.74	7.7	7.7	3.56	
			19	13.3	12.7	4.34	12.5	12.3	4.64	11.7	11.7	4.94	10.7	10.7	4.94	8.2	8.2	3.71	
			22	14.6	10.7	4.49	13.7	10.3	4.80	12.9	10.0	5.12	11.7	9.6	5.12	9.0	8.6	3.84	
S-6071PF3E ×2 (S-6071PF3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.4	10.7	4.00	12.6	8.7	4.28	11.8	8.4	4.55	10.7	7.9	4.55	8.3	6.7	3.42	
			19	14.3	8.0	4.17	13.4	6.1	4.46	12.6	5.8	4.75	11.5	5.4	4.75	8.8	4.4	3.56	
			22	15.7	5.4	4.32	14.7	3.7	4.62	13.8	3.4	4.91	12.6	2.9	4.91	9.7	2.0	3.69	
		25	16	13.9	12.4	4.07	13.0	12.0	4.35	12.2	11.7	4.63	11.1	11.1	4.63	8.6	8.6	3.47	
			19	14.8	9.8	4.24	13.9	9.4	4.54	13.1	9.0	4.83	11.9	8.6	4.83	9.1	7.4	3.62	
			22	16.3	7.3	4.39	15.2	6.9	4.69	14.3	6.6	5.00	13.0	6.1	5.00	10.0	5.1	3.75	
		27	16	14.4	14.2	4.14	13.4	13.4	4.42	12.6	12.6	4.71	11.5	11.5	4.71	8.8	8.8	3.53	
			19	15.3	11.5	4.31	14.4	11.1	4.61	13.5	10.8	4.91	12.3	10.2	4.91	9.5	9.1	3.68	
			22	16.8	9.0	4.46	15.7	8.6	4.77	14.8	8.2	5.08	13.4	7.8	5.08	10.4	6.7	3.81	
		29	16	14.6	14.6	4.15	13.6	13.6	4.43	12.8	12.8	4.72	11.7	11.7	4.72	9.0	9.0	3.54	
			19	15.6	13.1	4.32	14.6	12.7	4.62	13.7	12.3	4.92	12.5	11.8	4.92	9.6	9.6	3.69	
			22	17.1	10.6	4.47	16.0	10.2	4.78	15.0	9.9	5.09	13.6	9.3	5.09	10.5	8.3	3.82	
		32	16	14.8	14.8	4.16	13.8	13.8	4.44	13.0	13.0	4.73	11.8	11.8	4.73	9.1	9.1	3.55	
			19	15.8	15.5	4.33	14.8	14.8	4.63	13.9	13.9	4.93	12.6	12.6	4.93	9.7	9.7	3.70	
			22	17.3	13.0	4.48	16.2	12.5	4.79	15.2	12.1	5.10	13.8	11.7	5.10	10.7	10.6	3.83	
S-6071PF3E ×2 (S-6071PF3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	11.3	4.77	13.9	9.4	5.10	13.1	8.9	5.43	11.9	8.5	5.43	9.2	7.2	4.08	
			19	15.9	8.7	4.98	14.9	6.7	5.32	14.0	6.4	5.67	12.7	5.8	5.67	9.8	4.7	4.25	
			22	17.5	6.2	5.15	16.3	4.3	5.51	15.4	3.9	5.86	14.0	3.3	5.86	10.7	2.3	4.40	
		25	16	15.4	13.2	4.85	14.4	12.6	5.19	13.6	12.2	5.53	12.3	11.8	5.53	9.5	9.5	4.14	
			19	16.5	10.3	5.06	15.4	9.9	5.41	14.5	9.7	5.76	13.2	9.0	5.76	10.2	7.8	4.32	
			22	18.1	7.8	5.24	16.9	7.6	5.60	15.9	7.1	5.96	14.4	6.6	5.96	11.1	5.5	4.47	
		27	16	16.0	14.9	4.94	14.9	14.4	5.28	14.0	14.0	5.62	12.8	12.8	5.62	9.8	9.8	4.21	
			19	17.0	12.3	5.15	15.9	11.7	5.50	15.0	11.3	5.86	13.6	10.7	5.86	10.5	9.6	4.40	
			22	18.7	9.8	5.33	17.5	9.2	5.69	16.4	8.9	6.06	14.9	8.3	6.06	11.5	7.1	4.55	
		29	16	16.2	16.2	4.95	15.2	15.2	5.29	14.3	14.3	5.63	13.0	13.0	5.63	10.0	10.0	4.22	
			19	17.3	13.9	5.16	16.2	13.3	5.52	15.2	12.9	5.87	13.8	12.5	5.87	10.7	10.7	4.41	
			22	19.0	11.3	5.34	17.7	10.8	5.71	16.7	10.6	6.08	15.2	9.8	6.08	11.7	8.7	4.56	
		32	16	16.4	16.4	4.96	15.4	15.4	5.30	14.5	14.5	5.65	13.1	13.1	5.65	10.1	10.1	4.23	
			19	17.6	16.5	5.17	16.4	15.9	5.53	15.4	15.4	5.89	14.0	14.0	5.89	10.8	10.8	4.42	
			22	19.2	13.8	5.35	18.0	13.4	5.72	16.9	13.0	6.09	15.4	12.2	6.09	11.8	10.9	4.57	

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			46°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PF3E (S-3650PF3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	23	16	3.7	3.0	0.664	3.5	2.4	0.748	3.3	2.3	0.840	3.0	2.2	0.974	2.5	2.0	0.945
			19	4.1	2.3	0.672	3.9	1.6	0.758	3.6	1.5	0.850	3.3	1.5	0.986	2.8	1.2	0.956
			22	4.8	1.6	0.677	4.5	0.9	0.765	4.2	0.8	0.858	3.9	0.7	0.995	3.3	0.4	0.965
		25	16	3.7	3.5	0.664	3.5	3.5	0.748	3.3	3.3	0.840	3.0	3.0	0.974	2.5	2.5	0.945
			19	4.1	2.8	0.672	3.9	2.6	0.758	3.6	2.5	0.850	3.3	2.5	0.986	2.8	2.2	0.956
			22	4.8	2.1	0.677	4.5	2.0	0.765	4.2	1.9	0.858	3.9	1.7	0.995	3.3	1.4	0.965
		27	16	3.7	3.7	0.664	3.5	3.5	0.748	3.3	3.3	0.840	3.0	3.0	0.974	2.5	2.5	0.945
			19	4.1	3.3	0.672	3.9	3.1	0.758	3.6	3.0	0.850	3.3	3.0	0.986	2.8	2.7	0.956
			22	4.8	2.6	0.677	4.5	2.5	0.765	4.2	2.4	0.858	3.9	2.3	0.995	3.3	2.0	0.965
		29	16	3.7	3.7	0.664	3.5	3.5	0.748	3.3	3.3	0.840	3.0	3.0	0.974	2.5	2.5	0.945
			19	4.1	3.8	0.672	3.9	3.7	0.758	3.6	3.6	0.850	3.3	3.3	0.986	2.8	2.8	0.956
			22	4.8	3.1	0.677	4.5	3.0	0.765	4.2	2.9	0.858	3.9	2.8	0.995	3.3	2.5	0.965
		32	16	3.7	3.7	0.664	3.5	3.5	0.748	3.3	3.3	0.840	3.0	3.0	0.974	2.5	2.5	0.945
			19	4.1	4.1	0.672	3.9	3.9	0.758	3.6	3.6	0.850	3.3	3.3	0.986	2.8	2.8	0.956
			22	4.8	3.8	0.677	4.5	3.8	0.765	4.2	3.7	0.858	3.9	3.5	0.995	3.3	3.2	0.965
S-3650PF3E (S-3650PF3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	3.9	1.14	4.9	3.2	1.28	4.5	3.0	1.44	4.2	2.9	1.67	3.5	2.5	1.62
			19	5.7	2.9	1.15	5.4	2.2	1.30	5.0	2.0	1.46	4.6	1.9	1.69	3.9	1.6	1.64
			22	6.4	2.0	1.16	6.0	1.3	1.31	5.6	1.1	1.47	5.2	1.0	1.71	4.4	0.7	1.66
		25	16	5.1	4.6	1.14	4.9	4.4	1.28	4.5	4.3	1.44	4.2	4.1	1.67	3.5	3.5	1.62
			19	5.7	3.5	1.15	5.4	3.4	1.30	5.0	3.2	1.46	4.6	3.1	1.69	3.9	2.8	1.64
			22	6.4	2.6	1.16	6.0	2.4	1.31	5.6	2.3	1.47	5.2	2.2	1.71	4.4	1.9	1.66
		27	16	5.1	5.1	1.14	4.9	4.9	1.28	4.5	4.5	1.44	4.2	4.2	1.67	3.5	3.5	1.62
			19	5.7	4.1	1.15	5.4	4.0	1.30	5.0	3.9	1.46	4.6	3.7	1.69	3.9	3.4	1.64
			22	6.4	3.2	1.16	6.0	3.0	1.31	5.6	2.9	1.47	5.2	2.8	1.71	4.4	2.4	1.66
		29	16	5.1	5.1	1.14	4.9	4.9	1.28	4.5	4.5	1.44	4.2	4.2	1.67	3.5	3.5	1.62
			19	5.7	4.7	1.15	5.4	4.6	1.30	5.0	4.4	1.46	4.6	4.2	1.69	3.9	3.9	1.64
			22	6.4	3.8	1.16	6.0	3.6	1.31	5.6	3.5	1.47	5.2	3.4	1.71	4.4	3.0	1.66
		32	16	5.1	5.1	1.14	4.9	4.9	1.28	4.5	4.5	1.44	4.2	4.2	1.67	3.5	3.5	1.62
			19	5.7	5.6	1.15	5.4	5.4	1.30	5.0	5.0	1.46	4.6	4.6	1.69	3.9	3.9	1.64
			22	6.4	4.7	1.16	6.0	4.5	1.31	5.6	4.4	1.47	5.2	4.2	1.71	4.4	3.9	1.66
S-6071PF3E (S-6071PF3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	23	16	5.9	4.7	1.21	5.6	3.7	1.36	5.2	3.6	1.53	4.7	3.4	1.78	4.3	3.2	1.99
			19	6.5	3.5	1.22	6.1	2.5	1.38	5.7	2.4	1.55	5.2	2.2	1.80	4.8	2.0	2.02
			22	7.3	2.3	1.24	6.8	1.4	1.40	6.4	1.2	1.56	5.9	1.0	1.81	5.4	0.8	2.03
		25	16	5.9	5.5	1.21	5.6	5.3	1.36	5.2	5.1	1.53	4.7	4.7	1.78	4.3	4.3	1.99
			19	6.5	4.2	1.22	6.1	4.0	1.38	5.7	3.9	1.55	5.2	3.7	1.80	4.8	3.6	2.02
			22	7.3	3.0	1.24	6.8	2.9	1.40	6.4	2.7	1.56	5.9	2.5	1.81	5.4	2.4	2.03
		27	16	5.9	5.9	1.21	5.6	5.6	1.36	5.2	5.2	1.53	4.7	4.7	1.78	4.3	4.3	1.99
			19	6.5	5.0	1.22	6.1	4.8	1.38	5.7	4.7	1.55	5.2	4.5	1.80	4.8	4.3	2.02
			22	7.3	3.8	1.24	6.8	3.6	1.40	6.4	3.5	1.56	5.9	3.3	1.81	5.4	3.1	2.03
		29	16	5.9	5.9	1.21	5.6	5.6	1.36	5.2	5.2	1.53	4.7	4.7	1.78	4.3	4.3	1.99
			19	6.5	5.8	1.22	6.1	5.6	1.38	5.7	5.5	1.55	5.2	5.2	1.80	4.8	4.8	2.02
			22	7.3	4.6	1.24	6.8	4.4	1.40	6.4	4.3	1.56	5.9	4.1	1.81	5.4	3.9	2.03
		32	16	5.9	5.9	1.21	5.6	5.6	1.36	5.2	5.2	1.53	4.7	4.7	1.78	4.3	4.3	1.99
			19	6.5	6.5	1.22	6.1	6.1	1.38	5.7	5.7	1.55	5.2	5.2	1.80	4.8	4.8	2.02
			22	7.3	5.7	1.24	6.8	5.6	1.40	6.4	5.4	1.56	5.9	5.2	1.81	5.4	5.0	2.03

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-6071PF3E (S-6071PF3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	7.3	5.6	2.58	7.1	4.7	2.79	6.8	4.6	3.00	6.1	4.2	2.79	2.4	2.4	1.02		
			19	7.8	4.3	2.69	7.5	3.4	2.91	7.3	3.2	3.13	6.5	2.9	2.91	2.6	1.4	1.07		
			22	8.5	3.0	2.78	8.3	2.2	3.01	8.0	2.1	3.24	7.2	1.8	3.01	2.8	0.3	1.10		
		25	16	7.6	6.5	2.62	7.3	6.4	2.84	7.1	6.3	3.06	6.3	5.9	2.83	2.5	2.5	1.04		
			19	8.1	5.2	2.73	7.8	5.1	2.96	7.5	5.0	3.19	6.8	4.6	2.95	2.6	2.6	1.08		
			22	8.8	3.9	2.83	8.6	3.7	3.06	8.3	3.7	3.30	7.4	3.3	3.06	2.9	1.9	1.12		
		27	16	7.8	7.5	2.66	7.6	7.3	2.89	7.3	7.2	3.11	6.6	6.6	2.88	2.6	2.6	1.06		
			19	8.4	6.1	2.78	8.1	5.9	3.01	7.8	5.8	3.24	7.0	5.4	3.00	2.7	2.7	1.10		
			22	9.2	4.7	2.87	8.8	4.7	3.11	8.5	4.5	3.35	7.7	4.2	3.11	3.0	2.6	1.14		
		29	16	7.9	7.9	2.67	7.7	7.7	2.89	7.4	7.4	3.11	6.7	6.7	2.89	2.6	2.6	1.06		
			19	8.5	6.9	2.79	8.2	6.7	3.02	7.9	6.6	3.25	7.1	6.3	3.01	2.8	2.8	1.10		
			22	9.3	5.6	2.88	9.0	5.5	3.12	8.7	5.4	3.36	7.8	5.0	3.11	3.0	3.0	1.14		
		32	16	8.1	8.1	2.68	7.8	7.8	2.90	7.5	7.5	3.12	6.8	6.8	2.89	2.6	2.6	1.06		
			19	8.6	8.2	2.79	8.3	8.0	3.02	8.0	7.9	3.26	7.2	7.2	3.02	2.8	2.8	1.11		
			22	9.4	6.8	2.89	9.1	6.7	3.13	8.8	6.6	3.37	7.9	6.2	3.12	3.1	3.1	1.15		
S-1014PF3E (S-1014PF3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	10.8	8.6	3.41	10.4	7.2	3.58	10.0	7.0	3.75	8.9	6.4	3.41	4.0	4.0	1.78		
			19	11.6	6.4	3.55	11.1	5.1	3.73	10.6	4.9	3.91	9.5	4.4	3.55	4.3	2.4	1.85		
			22	12.7	4.6	3.68	12.2	3.1	3.86	11.7	3.0	4.04	10.4	2.5	3.68	4.7	0.7	1.92		
		25	16	11.2	9.9	3.46	10.8	9.8	3.64	10.3	9.6	3.81	9.2	8.9	3.46	4.2	4.2	1.81		
			19	12.0	7.8	3.61	11.5	7.7	3.79	11.0	7.5	3.97	9.8	7.0	3.61	4.5	4.5	1.88		
			22	13.1	5.9	3.74	12.6	5.6	3.92	12.1	5.4	4.11	10.8	5.0	3.74	4.9	3.0	1.95		
		27	16	11.6	11.3	3.52	11.1	11.1	3.70	10.7	10.7	3.87	9.5	9.5	3.52	4.3	4.3	1.84		
			19	12.4	9.2	3.67	11.9	9.2	3.86	11.4	8.7	4.04	10.2	8.3	3.67	4.6	4.6	1.91		
			22	13.6	7.2	3.80	13.0	7.1	3.99	12.5	6.9	4.18	11.1	6.4	3.80	5.1	4.4	1.98		
		29	16	11.7	11.7	3.53	11.3	11.3	3.71	10.8	10.8	3.88	9.6	9.6	3.53	4.4	4.4	1.84		
			19	12.5	10.5	3.68	12.1	10.3	3.87	11.6	10.1	4.05	10.3	9.6	3.68	4.7	4.7	1.92		
			22	13.8	8.5	3.81	13.2	8.4	4.00	12.7	8.2	4.19	11.3	7.6	3.81	5.1	5.1	1.99		
		32	16	11.9	11.9	3.54	11.5	11.5	3.71	11.0	11.0	3.89	9.8	9.8	3.54	4.5	4.4	1.84		
			19	12.7	12.5	3.69	12.2	12.2	3.88	11.7	11.7	4.06	10.5	10.5	3.69	4.8	4.8	1.92		
			22	14.0	10.5	3.82	13.4	10.2	4.01	12.9	10.0	4.20	11.5	9.5	3.82	5.2	5.2	1.99		
S-1014PF3E (S-1014PF3E(125)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	12.9	9.7	3.83	12.4	8.1	4.02	11.9	7.9	4.21	10.6	7.3	3.83	4.4	4.4	1.62		
			19	13.8	7.4	3.99	13.2	5.9	4.19	12.7	5.7	4.39	11.3	5.2	3.99	4.7	2.6	1.69		
			22	15.1	5.4	4.13	14.5	3.9	4.34	13.9	3.6	4.54	12.4	3.1	4.13	5.2	0.7	1.75		
		25	16	13.4	11.2	3.89	12.8	11.0	4.09	12.3	10.8	4.28	11.0	10.0	3.89	4.6	4.6	1.65		
			19	14.3	9.0	4.06	13.7	8.6	4.26	13.2	8.4	4.47	11.7	7.9	4.06	4.9	4.9	1.72		
			22	15.6	6.8	4.20	15.0	6.6	4.41	14.4	6.4	4.62	12.8	5.9	4.20	5.3	3.2	1.78		
		27	16	13.8	12.7	3.96	13.3	12.5	4.15	12.7	12.2	4.35	11.3	11.3	3.96	4.7	4.7	1.68		
			19	14.8	10.4	4.13	14.2	10.3	4.33	13.6	9.9	4.54	12.1	9.2	4.13	5.0	5.0	1.75		
			22	16.2	8.3	4.27	15.5	8.1	4.48	14.9	7.8	4.70	13.3	7.2	4.27	5.5	4.5	1.81		
		29	16	14.0	14.0	3.97	13.5	13.5	4.16	12.9	12.9	4.36	11.5	11.5	3.97	4.8	4.8	1.68		
			19	15.0	11.8	4.14	14.4	11.5	4.34	13.8	11.3	4.55	12.3	10.7	4.14	5.1	5.1	1.75		
			22	16.4	9.7	4.28	15.8	9.4	4.49	15.1	9.2	4.71	13.5	8.5	4.28	5.6	5.6	1.81		
		32	16	14.2	14.2	3.98	13.7	13.7	4.17	13.1	13.1	4.37	11.7	11.7	3.98	4.9	4.8	1.68		
			19	15.2	13.9	4.15	14.6	13.6	4.35	14.0	13.3	4.56	12.5	12.5	4.15	5.2	5.2	1.76		
			22	16.6	11.7	4.29	16.0	11.4	4.51	15.3	11.2	4.72	13.7	10.6	4.29	5.7	5.7	1.82		
S-1014PF3E (S-1014PF3E(140)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.5	10.5	4.97	13.9	8.9	5.22	13.4	8.6	5.47	11.9	7.9	4.98	4.4	4.4	1.64		
			19	15.5	8.1	5.19	14.9	6.5	5.45	14.3	6.2	5.71	12.7	5.6	5.19	4.7	2.6	1.71		
			22	17.0	5.9	5.37	16.3	4.3	5.64	15.7	4.1	5.90	13.9	3.5	5.37	5.2	0.6	1.77		
		25	16	15.0	12.1	5.06	14.4	11.9	5.31	13.9	11.6	5.56	12.3	10.8	5.06	4.6	4.6	1.67		
			19	16.0	9.7	5.28	15.4	9.4	5.54	14.8	9.2	5.80	13.2	8.6	5.28	4.9	4.9	1.74		
			22	17.6	7.5	5.46	16.9	7.2	5.73	16.2	6.9	6.00	14.4	6.3	5.46	5.4	3.2	1.80		
		27	16	15.5	13.8	5.14	14.9	13.5	5.40	14.3	13.2	5.66	12.8	12.4	5.14	4.7	4.7	1.70		
			19	16.6	11.3	5.36	15.9	11.0	5.63	15.3	10.7	5.90	13.6	10.1	5.37	5.0	5.0	1.77		
			22	18.2	9.1	5.55	17.5	8.8	5.83	16.8	8.5	6.10	14.9	7.9	5.55	5.5	4.5	1.83		
		29	16	15.8	15.3	5.15	15.2	15.0	5.41	14.5	14.5	5.67	12.9	12.9	5.16	4.8	4.8	1.70		
			19	16.8	12.8	5.38	16.2	12.5	5.65	15.5	12.2	5.91	13.8	11.4	5.38	5.1	5.1	1.77		
			22	18.5	10.5	5.56	17.7	10.3	5.84	17.0	9.9	6.12	15.2	9.4	5.56	5.6	5.6	1.84		
		32	16	16.0	16.0	5.17	15.4	15.4	5.43	14.8	14.8	5.68	13.1	13.1	5.17	4.9	4.9	1.71		
			19	17.1	15.0	5.39	16.4	14.7	5.66	15.8	14.4	5.93	14.0	13.6	5.39	5.2	5.2	1.78		
			22	18.7	12.7	5.58	18.0	12.3	5.85	17.3	12.1	6.13	15.4	11.3	5.58	5.7	5.7	1.84		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PF3E×2 (S-3650PF3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	7.3	6.5	2.62	7.1	5.3	2.83	6.8	5.2	3.05	6.1	4.8	2.83	2.4	2.4	1.04		
			19	7.8	4.7	2.73	7.5	3.5	2.96	7.3	3.3	3.18	6.5	3.1	2.95	2.6	1.6	1.08		
			22	8.5	2.9	2.82	8.3	1.8	3.06	8.0	1.7	3.29	7.2	1.4	3.05	2.8	0.1	1.12		
		25	16	7.6	7.6	2.66	7.3	7.3	2.88	7.1	7.1	3.10	6.3	6.3	2.88	2.5	2.5	1.05		
			19	8.1	5.8	2.78	7.8	5.7	3.01	7.5	5.7	3.24	6.8	5.2	3.00	2.6	2.6	1.10		
			22	8.8	4.1	2.87	8.6	3.9	3.11	8.3	3.9	3.35	7.4	3.6	3.10	2.9	2.2	1.14		
		27	16	7.8	7.8	2.71	7.6	7.6	2.93	7.3	7.3	3.15	6.6	6.6	2.92	2.6	2.6	1.07		
			19	8.4	7.1	2.82	8.1	6.9	3.06	7.8	6.8	3.29	7.0	6.4	3.05	2.7	2.7	1.12		
			22	9.2	5.3	2.92	8.8	5.2	3.16	8.5	5.0	3.40	7.7	4.7	3.16	3.0	3.0	1.16		
		29	16	7.9	7.9	2.71	7.7	7.7	2.94	7.4	7.4	3.16	6.7	6.7	2.93	2.6	2.6	1.08		
			19	8.5	8.2	2.83	8.2	8.1	3.06	7.9	7.8	3.30	7.1	7.1	3.06	2.8	2.8	1.12		
			22	9.3	6.4	2.93	9.0	6.3	3.17	8.7	6.2	3.41	7.8	5.9	3.16	3.0	3.0	1.16		
		32	16	8.1	8.1	2.72	7.8	7.8	2.94	7.5	7.5	3.17	6.8	6.8	2.94	2.6	2.6	1.08		
			19	8.6	8.6	2.84	8.3	8.3	3.07	8.0	8.0	3.31	7.2	7.2	3.06	2.8	2.8	1.12		
			22	9.4	8.1	2.93	9.1	8.0	3.18	8.8	7.8	3.42	7.9	7.5	3.17	3.1	3.1	1.16		
S-3650PF3E×2 (S-3650PF3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	10.8	8.6	3.47	10.4	7.1	3.65	10.0	6.9	3.82	8.9	6.4	3.47	4.0	4.0	1.81		
			19	11.6	6.4	3.62	11.1	4.9	3.80	10.6	4.9	3.99	9.5	4.4	3.62	4.3	2.4	1.89		
			22	12.7	4.5	3.75	12.2	3.1	3.94	11.7	2.9	4.12	10.4	2.5	3.75	4.7	0.6	1.95		
		25	16	11.2	10.0	3.53	10.8	9.7	3.71	10.3	9.6	3.89	9.2	9.0	3.53	4.2	4.2	1.84		
			19	12.0	7.8	3.68	11.5	7.6	3.87	11.0	7.5	4.05	9.8	7.0	3.69	4.5	4.5	1.92		
			22	13.1	5.9	3.81	12.6	5.7	4.00	12.1	5.5	4.19	10.8	5.0	3.81	4.9	2.9	1.99		
		27	16	11.6	11.4	3.59	11.1	11.1	3.77	10.7	10.7	3.95	9.5	9.5	3.59	4.3	4.3	1.87		
			19	12.4	9.2	3.74	11.9	9.0	3.93	11.4	8.8	4.12	10.2	8.3	3.75	4.6	4.6	1.95		
			22	13.6	7.3	3.87	13.0	6.9	4.07	12.5	6.8	4.26	11.1	6.3	3.88	5.1	4.3	2.02		
		29	16	11.7	11.7	3.60	11.3	11.3	3.78	10.8	10.8	3.96	9.6	9.6	3.60	4.4	4.4	1.88		
			19	12.5	10.5	3.75	12.1	10.3	3.94	11.6	10.1	4.13	10.3	9.6	3.76	4.7	4.7	1.96		
			22	13.8	8.5	3.88	13.2	8.3	4.08	12.7	8.1	4.27	11.3	7.6	3.89	5.1	5.1	2.03		
		32	16	11.9	11.9	3.61	11.5	11.5	3.79	11.0	11.0	3.97	9.8	9.8	3.61	4.5	4.4	1.88		
			19	12.7	12.5	3.76	12.2	12.2	3.95	11.7	11.7	4.14	10.5	10.5	3.77	4.8	4.8	1.96		
			22	14.0	10.4	3.89	13.4	10.1	4.09	12.9	10.0	4.28	11.5	9.5	3.90	5.2	5.2	2.03		
S-6071PF3E×2 (S-6071PF3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	12.9	10.4	3.83	12.4	8.6	4.02	11.9	8.4	4.21	10.6	7.9	3.83	4.4	4.4	1.62		
			19	13.8	7.8	3.99	13.2	6.0	4.19	12.7	5.8	4.39	11.3	5.3	3.99	4.7	2.7	1.69		
			22	15.1	5.3	4.13	14.5	3.6	4.34	13.9	3.4	4.54	12.4	2.9	4.13	5.2	0.4	1.75		
		25	16	13.4	12.1	3.89	12.8	11.9	4.09	12.3	11.7	4.28	11.0	11.0	3.89	4.6	4.6	1.65		
			19	14.3	9.5	4.06	13.7	9.3	4.26	13.2	9.0	4.47	11.7	8.5	4.06	4.9	4.9	1.72		
			22	15.6	7.0	4.20	15.0	6.8	4.41	14.4	6.6	4.62	12.8	6.1	4.20	5.3	3.4	1.78		
		27	16	13.8	13.8	3.96	13.3	13.3	4.15	12.7	12.7	4.35	11.3	11.3	3.96	4.7	4.7	1.68		
			19	14.8	11.2	4.13	14.2	11.0	4.33	13.6	10.8	4.54	12.1	10.2	4.13	5.0	5.0	1.75		
			22	16.2	8.8	4.27	15.5	8.5	4.48	14.9	8.3	4.70	13.3	7.7	4.27	5.5	5.0	1.81		
		29	16	14.0	14.0	3.97	13.5	13.5	4.16	12.9	12.9	4.36	11.5	11.5	3.97	4.8	4.8	1.68		
			19	15.0	12.9	4.14	14.4	12.6	4.34	13.8	12.4	4.55	12.3	11.8	4.14	5.1	5.1	1.75		
			22	16.4	10.4	4.28	15.8	10.1	4.49	15.1	9.9	4.71	13.5	9.3	4.28	5.6	5.6	1.81		
		32	16	14.2	14.2	3.98	13.7	13.7	4.17	13.1	13.1	4.37	11.7	11.7	3.98	4.9	4.9	1.68		
			19	15.2	15.2	4.15	14.6	14.6	4.35	14.0	14.0	4.56	12.5	12.5	4.15	5.2	5.2	1.76		
			22	16.6	12.7	4.29	16.0	12.5	4.51	15.3	12.2	4.72	13.7	11.6	4.29	5.7	5.7	1.82		
S-6071PF3E×2 (S-6071PF3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.5	11.2	4.97	13.9	9.4	5.22	13.4	9.1	5.47	11.9	8.5	4.98	4.4	4.4	1.64		
			19	15.5	8.5	5.19	14.9	6.7	5.45	14.3	6.4	5.71	12.7	5.8	5.19	4.7	2.9	1.71		
			22	17.0	6.0	5.37	16.3	4.3	5.64	15.7	4.0	5.90	13.9	3.4	5.37	5.2	0.5	1.77		
		25	16	15.0	13.0	5.06	14.4	12.7	5.31	13.9	12.5	5.56	12.3	11.8	5.06	4.6	4.6	1.67		
			19	16.0	10.3	5.28	15.4	10.0	5.54	14.8	9.8	5.80	13.2	9.1	5.28	4.9	4.9	1.74		
			22	17.6	7.8	5.46	16.9	7.5	5.73	16.2	7.3	6.00	14.4	6.6	5.46	5.4	3.6	1.80		
		27	16	15.5	14.8	5.14	14.9	14.5	5.40	14.3	14.3	5.66	12.8	12.8	5.14	4.7	4.7	1.70		
			19	16.6	12.1	5.36	15.9	11.8	5.63	15.3	11.5	5.90	13.6	10.8	5.37	5.0	5.0	1.77		
			22	18.2	9.6	5.55	17.5	9.3	5.83	16.8	9.0	6.10	14.9	8.3	5.55	5.5	5.0	1.83		
		29	16	15.8	15.8	5.15	15.2	15.2	5.41	14.5	14.5	5.67	12.9	12.9	5.16	4.8	4.8	1.70		
			19	16.8	13.8	5.38	16.2	13.5	5.65	15.5	13.2	5.91	13.8	12.5	5.38	5.1	5.1	1.77		
			22	18.5	11.2	5.56	17.7	10.9	5.84	17.0	10.6	6.12	15.2	9.9	5.56	5.6	5.6	1.84		
		32	16	16.0	16.0	5.17	15.4	15.4	5.43	14.8	14.8	5.68	13.1	13.1	5.17	4.9	4.9	1.71		
			19	17.1	16.2	5.39	16.4	15.9	5.66	15.8	15.6	5.93	14.0	14.0	5.39	5.2	5.2	1.78		
			22	18.7	13.6	5.58	18.0	13.4	5.85	17.3	13.1	6.13	15.4	12.3	5.58	5.7	5.7	1.84		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-2. Middle Static Pressure Duct Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PF3E×3 (S-3650PF3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	10.8	9.7	3.46	10.4	7.8	3.63	10.0	7.7	3.80	8.9	7.2	3.46	4.0	4.0	1.80		
			19	11.6	7.0	3.61	11.1	5.2	3.79	10.6	5.0	3.97	9.5	4.6	3.61	4.3	2.6	1.88		
			22	12.7	4.4	3.73	12.2	2.6	3.92	11.7	2.5	4.10	10.4	2.0	3.73	4.7	0.2	1.94		
		25	16	11.2	11.2	3.51	10.8	10.8	3.69	10.3	10.3	3.87	9.2	9.2	3.52	4.2	4.2	1.83		
			19	12.0	8.7	3.67	11.5	8.5	3.85	11.0	8.4	4.03	9.8	7.9	3.67	4.5	4.5	1.91		
			22	13.1	6.2	3.79	12.6	6.0	3.98	12.1	5.8	4.17	10.8	5.4	3.79	4.9	3.3	1.98		
		27	16	11.6	11.6	3.57	11.1	11.1	3.75	10.7	10.7	3.93	9.5	9.5	3.57	4.3	4.3	1.86		
			19	12.4	10.5	3.73	11.9	10.3	3.91	11.4	10.1	4.10	10.2	9.7	3.73	4.6	4.6	1.94		
			22	13.6	7.9	3.86	13.0	7.7	4.05	12.5	7.5	4.24	11.1	7.1	3.86	5.1	5.1	2.01		
		29	16	11.7	11.7	3.58	11.3	11.3	3.76	10.8	10.8	3.94	9.6	9.6	3.58	4.4	4.4	1.87		
			19	12.5	12.2	3.74	12.1	12.0	3.92	11.6	11.6	4.11	10.3	10.3	3.74	4.7	4.7	1.95		
			22	13.8	9.6	3.86	13.2	9.4	4.06	12.7	9.2	4.25	11.3	8.7	3.87	5.1	5.1	2.02		
		32	16	11.9	11.9	3.59	11.5	11.5	3.77	11.0	11.0	3.95	9.8	9.8	3.59	4.5	4.5	1.87		
			19	12.7	12.7	3.74	12.2	12.2	3.93	11.7	11.7	4.12	10.5	10.5	3.75	4.8	4.8	1.95		
			22	14.0	12.0	3.87	13.4	11.8	4.07	12.9	11.6	4.26	11.5	11.2	3.88	5.2	5.2	2.02		
S-3650PF3E×3 (S-3650PF3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	12.9	10.6	3.86	12.4	8.8	4.05	11.9	8.5	4.25	10.6	8.0	3.86	4.4	4.4	1.64		
			19	13.8	7.9	4.03	13.2	6.1	4.23	12.7	5.8	4.43	11.3	5.3	4.03	4.7	2.7	1.71		
			22	15.1	5.3	4.17	14.5	3.5	4.37	13.9	3.3	4.58	12.4	2.8	4.17	5.2	0.3	1.76		
		25	16	13.4	12.5	3.93	12.8	12.2	4.12	12.3	12.0	4.32	11.0	11.0	3.93	4.6	4.6	1.66		
			19	14.3	9.7	4.09	13.7	9.5	4.30	13.2	9.3	4.51	11.7	8.7	4.10	4.9	4.9	1.73		
			22	15.6	7.1	4.24	15.0	6.9	4.45	14.4	6.7	4.66	12.8	6.1	4.24	5.3	3.5	1.79		
		27	16	13.8	13.8	3.99	13.3	13.3	4.19	12.7	12.7	4.39	11.3	11.3	3.99	4.7	4.7	1.69		
			19	14.8	11.5	4.16	14.2	11.2	4.37	13.6	11.0	4.58	12.1	10.4	4.17	5.0	5.0	1.76		
			22	16.2	8.9	4.31	15.5	8.7	4.52	14.9	8.4	4.74	13.3	7.9	4.31	5.5	5.1	1.82		
		29	16	14.0	14.0	4.00	13.5	13.5	4.20	12.9	12.9	4.40	11.5	11.5	4.00	4.8	4.8	1.69		
			19	15.0	13.2	4.17	14.4	13.0	4.38	13.8	12.7	4.59	12.3	12.1	4.18	5.1	5.1	1.77		
			22	16.4	10.6	4.32	15.8	10.3	4.53	15.1	10.1	4.75	13.5	9.5	4.32	5.6	5.6	1.83		
		32	16	14.2	14.2	4.01	13.7	13.7	4.21	13.1	13.1	4.41	11.7	11.7	4.01	4.9	4.9	1.70		
			19	15.2	15.2	4.18	14.6	14.6	4.39	14.0	14.0	4.60	12.5	12.5	4.19	5.2	5.2	1.77		
			22	16.6	13.1	4.33	16.0	12.8	4.54	15.3	12.5	4.76	13.7	12.0	4.33	5.7	5.7	1.83		
S-3650PF3E×3 (S-3650PF3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.5	11.9	4.97	13.9	10.0	5.22	13.4	9.7	5.47	11.9	9.1	4.98	4.4	4.4	1.64		
			19	15.5	8.9	5.19	14.9	6.9	5.45	14.3	6.4	5.71	12.7	5.9	5.19	4.7	3.1	1.71		
			22	17.0	6.0	5.37	16.3	3.9	5.64	15.7	3.7	5.90	13.9	3.1	5.37	5.2	0.3	1.77		
		25	16	15.0	14.1	5.06	14.4	13.8	5.31	13.9	13.6	5.56	12.3	12.3	5.06	4.6	4.6	1.67		
			19	16.0	10.9	5.28	15.4	10.7	5.54	14.8	10.5	5.80	13.2	9.8	5.28	4.9	4.9	1.74		
			22	17.6	8.0	5.46	16.9	7.8	5.73	16.2	7.5	6.00	14.4	6.9	5.46	5.4	3.9	1.80		
		27	16	15.5	15.5	5.14	14.9	14.9	5.40	14.3	14.3	5.66	12.8	12.8	5.14	4.7	4.7	1.70		
			19	16.6	13.0	5.36	15.9	12.8	5.63	15.3	12.3	5.90	13.6	11.8	5.37	5.0	5.0	1.77		
			22	18.2	10.0	5.55	17.5	9.6	5.83	16.8	9.5	6.10	14.9	8.9	5.55	5.5	5.5	1.83		
		29	16	15.8	15.8	5.15	15.2	15.2	5.41	14.5	14.5	5.67	12.9	12.9	5.16	4.8	4.8	1.70		
			19	16.8	14.9	5.38	16.2	14.5	5.65	15.5	14.4	5.91	13.8	13.8	5.38	5.1	5.1	1.77		
			22	18.5	12.0	5.56	17.7	11.7	5.84	17.0	11.3	6.12	15.2	10.8	5.56	5.6	5.6	1.84		
		32	16	16.0	16.0	5.17	15.4	15.4	5.43	14.8	14.8	5.68	13.1	13.1	5.17	4.9	4.9	1.71		
			19	17.1	17.1	5.39	16.4	16.4	5.66	15.8	15.8	5.93	14.0	14.0	5.39	5.2	5.2	1.78		
			22	18.7	14.8	5.58	18.0	14.5	5.85	17.3	14.2	6.13	15.4	13.6	5.58	5.7	5.7	1.84		
S-3650PF3E×4 (S-3650PF3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	12.9	12.2	3.91	12.4	9.9	4.11	11.9	9.6	4.30	10.6	9.1	3.91	4.4	4.4	1.66		
			19	13.8	8.6	4.08	13.2	6.3	4.28	12.7	6.1	4.49	11.3	5.6	4.08	4.7	3.0	1.73		
			22	15.1	5.2	4.22	14.5	2.9	4.43	13.9	2.8	4.64	12.4	2.3	4.22	5.2	0.2	1.79		
		25	16	13.4	13.4	3.98	12.8	12.8	4.18	12.3	12.3	4.38	11.0	11.0	3.98	4.6	4.6	1.68		
			19	14.3	11.0	4.15	13.7	10.8	4.36	13.2	10.6	4.56	11.7	10.0	4.15	4.9	4.9	1.76		
			22	15.6	7.6	4.29	15.0	7.3	4.51	14.4	7.2	4.72	12.8	6.7	4.29	5.3	4.1	1.82		
		27	16	13.8	13.8	4.04	13.3	13.3	4.25	12.7	12.7	4.45	11.3	11.3	4.05	4.7	4.7	1.71		
			19	14.8	13.3	4.22	14.2	13.1	4.43	13.6	12.9	4.64	12.1	12.1	4.22	5.0	5.0	1.79		
			22	16.2	9.9	4.36	15.5	9.7	4.58	14.9	9.4	4.80	13.3	8.9	4.37	5.5	5.5	1.85		
		29	16	14.0	14.0	4.05	13.5	13.5	4.26	12.9	12.9	4.46	11.5	11.5	4.06	4.8	4.8	1.72		
			19	15.0	15.0	4.23	14.4	14.4	4.44	13.8	13.8	4.65	12.3	12.3	4.23	5.1	5.1	1.79		
			22	16.4	12.1	4.37	15.8	11.9	4.59	15.1	11.6	4.81	13.5	11.1	4.38	5.6	5.6	1.85		
		32	16	14.2	14.2	4.06	13.7	13.7	4.27	13.1	13.1	4.47	11.7	11.7	4.07	4.9	4.9	1.72		
			19	15.2	15.2	4.24	14.6	14.6	4.45	14.0	14.0	4.66	12.5	12.5	4.24	5.2	5.2	1.80		
			22	16.6	15.3	4.38	16.0	15.1	4.60	15.3	14.9	4.82	13.7	13.7	4.39	5.7	5.7	1.86		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-3. Wall Mounted Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PK3E (S-3650PK3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	23	16	3.6	2.9	0.652	3.4	2.4	0.766	3.2	2.3	0.874	3.0	2.3	0.995	2.9	2.2	1.06
			19	4.0	2.2	0.649	3.8	1.7	0.762	3.6	1.6	0.870	3.4	1.5	0.990	3.3	1.4	1.06
			22	4.5	1.5	0.640	4.2	0.9	0.751	4.0	0.8	0.858	3.7	0.7	0.976	3.6	0.7	1.04
		25	16	3.6	3.4	0.652	3.4	3.3	0.766	3.2	3.2	0.874	3.0	3.0	0.995	2.9	2.9	1.06
			19	4.0	2.7	0.649	3.8	2.7	0.762	3.6	2.5	0.870	3.4	2.4	0.990	3.3	2.4	1.06
			22	4.5	1.9	0.640	4.2	1.8	0.751	4.0	1.7	0.858	3.7	1.7	0.976	3.6	1.6	1.04
		27	16	3.6	3.6	0.652	3.4	3.4	0.766	3.2	3.2	0.874	3.0	3.0	0.995	2.9	2.9	1.06
			19	4.0	3.2	0.649	3.8	3.2	0.762	3.6	3.0	0.870	3.4	2.9	0.990	3.3	2.9	1.06
			22	4.5	2.4	0.640	4.2	2.3	0.751	4.0	2.2	0.858	3.7	2.1	0.976	3.6	2.1	1.04
		29	16	3.6	3.6	0.652	3.4	3.4	0.766	3.2	3.2	0.874	3.0	3.0	0.995	2.9	2.9	1.06
			19	4.0	3.6	0.649	3.8	3.7	0.762	3.6	3.5	0.870	3.4	3.4	0.990	3.3	3.3	1.06
			22	4.5	2.9	0.640	4.2	2.8	0.751	4.0	2.7	0.858	3.7	2.6	0.976	3.6	2.6	1.04
		32	16	3.6	3.6	0.652	3.4	3.4	0.766	3.2	3.2	0.874	3.0	3.0	0.995	2.9	2.9	1.06
			19	4.0	4.0	0.649	3.8	3.8	0.762	3.6	3.6	0.870	3.4	3.4	0.990	3.3	3.3	1.06
			22	4.5	3.6	0.640	4.2	3.5	0.751	4.0	3.4	0.858	3.7	3.3	0.976	3.6	3.3	1.04
S-3650PK3E (S-3650PK3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	4.0	1.07	4.8	3.2	1.24	4.6	3.1	1.41	4.2	3.1	1.60	4.0	2.8	1.71
			19	5.6	3.0	1.08	5.3	2.3	1.24	5.0	2.3	1.42	4.6	2.0	1.61	4.3	1.9	1.72
			22	6.1	2.0	1.08	5.8	1.3	1.24	5.5	1.2	1.42	5.1	1.1	1.61	4.8	0.9	1.73
		25	16	5.1	4.6	1.07	4.8	4.4	1.24	4.6	4.3	1.41	4.2	4.2	1.60	4.0	4.0	1.71
			19	5.6	3.7	1.08	5.3	3.5	1.24	5.0	3.4	1.42	4.6	3.2	1.61	4.3	3.2	1.72
			22	6.1	2.6	1.08	5.8	2.5	1.24	5.5	2.4	1.42	5.1	2.2	1.61	4.8	2.1	1.73
		27	16	5.1	5.1	1.07	4.8	4.8	1.24	4.6	4.6	1.41	4.2	4.2	1.60	4.0	4.0	1.71
			19	5.6	4.2	1.08	5.3	4.1	1.24	5.0	3.9	1.42	4.6	3.8	1.61	4.3	3.8	1.72
			22	6.1	3.2	1.08	5.8	3.1	1.24	5.5	3.0	1.42	5.1	2.8	1.61	4.8	2.7	1.73
		29	16	5.1	5.1	1.07	4.8	4.8	1.24	4.6	4.6	1.41	4.2	4.2	1.60	4.0	4.0	1.71
			19	5.6	4.8	1.08	5.3	4.7	1.24	5.0	4.6	1.42	4.6	4.3	1.61	4.3	4.3	1.72
			22	6.1	3.8	1.08	5.8	3.6	1.24	5.5	3.5	1.42	5.1	3.4	1.61	4.8	3.3	1.73
		32	16	5.1	5.1	1.07	4.8	4.8	1.24	4.6	4.6	1.41	4.2	4.2	1.60	4.0	4.0	1.71
			19	5.6	5.6	1.08	5.3	5.3	1.24	5.0	5.0	1.42	4.6	4.6	1.61	4.3	4.3	1.72
			22	6.1	4.7	1.08	5.8	4.5	1.24	5.5	4.4	1.42	5.1	4.3	1.61	4.8	4.1	1.73
S-6010PK3E (S-6010PK3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	6.3	4.9	1.30	6.0	4.0	1.46	5.5	3.8	1.64	5.1	3.6	1.90	4.8	3.5	2.05
			19	6.9	3.7	1.31	6.6	2.9	1.48	6.1	2.7	1.66	5.6	2.4	1.93	5.3	2.3	2.08
			22	7.8	2.6	1.32	7.3	1.7	1.49	6.8	1.6	1.67	6.3	1.3	1.94	6.0	1.3	2.09
		25	16	6.3	5.6	1.30	6.0	5.4	1.46	5.5	5.2	1.64	5.1	5.0	1.90	4.8	4.8	2.05
			19	6.9	4.5	1.31	6.6	4.3	1.48	6.1	4.1	1.66	5.6	3.9	1.93	5.3	3.7	2.08
			22	7.8	3.4	1.32	7.3	3.2	1.49	6.8	3.0	1.67	6.3	2.7	1.94	6.0	2.7	2.09
		27	16	6.3	6.3	1.30	6.0	6.0	1.46	5.5	5.5	1.64	5.1	5.1	1.90	4.8	4.8	2.05
			19	6.9	5.2	1.31	6.6	5.0	1.48	6.1	4.8	1.66	5.6	4.6	1.93	5.3	4.5	2.08
			22	7.8	4.0	1.32	7.3	3.9	1.49	6.8	3.7	1.67	6.3	3.4	1.94	6.0	3.4	2.09
		29	16	6.3	6.3	1.30	6.0	6.0	1.46	5.5	5.5	1.64	5.1	5.1	1.90	4.8	4.8	2.05
			19	6.9	5.9	1.31	6.6	5.8	1.48	6.1	5.6	1.66	5.6	5.3	1.93	5.3	5.2	2.08
			22	7.8	4.8	1.32	7.3	4.6	1.49	6.8	4.4	1.67	6.3	4.2	1.94	6.0	4.1	2.09
		32	16	6.3	6.3	1.30	6.0	6.0	1.46	5.5	5.5	1.64	5.1	5.1	1.90	4.8	4.8	2.05
			19	6.9	6.9	1.31	6.6	6.6	1.48	6.1	6.1	1.66	5.6	5.6	1.93	5.3	5.3	2.08
			22	7.8	5.9	1.32	7.3	5.6	1.49	6.8	5.5	1.67	6.3	5.2	1.94	6.0	5.2	2.09
S-6010PK3E (S-6010PK3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	7.1	5.3	1.75	6.7	4.4	1.96	6.4	4.2	2.22	5.7	3.9	2.42	5.2	3.7	2.50
			19	7.9	4.2	1.78	7.4	3.2	1.99	7.1	3.1	2.25	6.3	2.8	2.46	5.7	2.5	2.54
			22	8.8	3.0	1.81	8.3	2.0	2.03	8.0	2.0	2.29	7.1	1.6	2.50	6.4	1.4	2.58
		25	16	7.1	6.1	1.75	6.7	5.9	1.96	6.4	5.7	2.22	5.7	5.4	2.42	5.2	5.2	2.50
			19	7.9	4.9	1.78	7.4	4.6	1.99	7.1	4.5	2.25	6.3	4.2	2.46	5.7	4.0	2.54
			22	8.8	3.8	1.81	8.3	3.5	2.03	8.0	3.4	2.29	7.1	3.0	2.50	6.4	2.9	2.58
		27	16	7.1	6.8	1.75	6.7	6.6	1.96	6.4	6.4	2.22	5.7	5.7	2.42	5.2	5.2	2.50
			19	7.9	5.6	1.78	7.4	5.4	1.99	7.1	5.3	2.25	6.3	5.0	2.46	5.7	4.7	2.54
			22	8.8	4.4	1.81	8.3	4.3	2.03	8.0	4.1	2.29	7.1	3.8	2.50	6.4	3.6	2.58
		29	16	7.1	7.1	1.75	6.7	6.7	1.96	6.4	6.4	2.22	5.7	5.7	2.42	5.2	5.2	2.50
			19	7.9	6.4	1.78	7.4	6.1	1.99	7.1	6.1	2.25	6.3	5.7	2.46	5.7	5.5	2.54
			22	8.8	5.2	1.81	8.3	5.0	2.03	8.0	4.9	2.29	7.1	4.5	2.50	6.4	4.3	2.58
		32	16	7.1	7.1	1.75	6.7	6.7	1.96	6.4	6.4	2.22	5.7	5.7	2.42	5.2	5.2	2.50
			19	7.9	7.5	1.78	7.4	7.3	1.99	7.1	7.1	2.25	6.3	6.3	2.46	5.7	5.7	2.54
			22	8.8	6.3	1.81	8.3	6.1	2.03	8.0	6.0	2.29	7.1	5.6	2.50	6.4	5.4	2.58
S-6010PK3E (S-6010PK3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	9.6	6.7	2.53	9.0	5.6	2.70	8.5	5.3	2.87	7.7	4.9	2.87	5.9	4.2	2.16
			19	10.3	5.2	2.63	9.6	4.1	2.82	9.1	3.9	3.00	8.2	3.5	3.00	6.3	2.8	2.25
			22	11.3	3.9	2.73	10.6	2.8	2.91	9.9	2.5	3.10	9.0	2.3	3.10	7.0	1.5	2.33
		25	16	10.0	7.7	2.57	9.3	7.4	2.75	8.8	7.1	2.92	8.0	6.7	2.92	6.1	5.8	2.19
			19	10.7	6.2	2.68	10.0	5.9	2.86	9.4	5.7	3.05	8.5	5.3	3.05	6.6	4.4	2.29
			22	11.7	4.9	2.77	10.9	4.6	2.96	10.3	4.3	3.15	9.3	3.9	3.15	7.2	3.1	2.37
		27	16	10.3	8.8	2.61	9.7	8.4	2.79	9.1	8.1	2.97	8.3	7.7	2.97	6.4	6.4	2.23
			19	11.0	7.3	2.72	10.3	6.9	2.91	9.7	6.7	3.10	8.8	6.2	3.10	6.8	5.4	2.33
			22	12.1	5.8	2.82	11.3	5.5	3.01	10.6	5.3	3.21	9.7	4.9	3.21	7.4	4.1	2.41
		29	16	10.5	9.6	2.62	9.8	9.3	2.80	9.2	9.0	2.98	8.4	8.4	2.98	6.5	6.5	2.23
			19	11.2	8.1	2.73	10.5	7.8	2.92	9.8	7.5	3.11	8.9	7.1	3.11	6.9	6.3	2.33
			22	12.3	6.8	2.82	11.5	6.4	3.02	10.8	6.1	3.22	9.8	5.7	3.22	7.6	5.0	2.41
		32	16	10.6	10.6	2.62	9.9	9.9	2.81	9.4	9.4	2.99	8.5	8.5	2.99	6.5	6.5	2.24
			19	11.4	9.5	2.74	10.6	9.1	2.93	10.0	8.8	3.12	9.1	8.5	3.12	7.0	7.0	2.34
			22	12.4	8.1	2.83	11.6	7.7	3.03	10.9	7.4	3.22	10.0	7.1	3.22	7.7	6.1	2.42

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-3. Wall Mounted Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			43°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PK3E×2 (S-3650PK3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	10.9	8.3	3.26	10.2	6.8	3.48	9.6	6.5	3.71	8.7	6.1	3.71	6.7	5.1	2.78		
			19	11.7	6.3	3.40	10.9	4.8	3.63	10.3	4.4	3.87	9.3	4.1	3.87	7.2	3.3	2.90		
			22	12.8	4.3	3.52	12.0	2.8	3.76	11.3	2.6	4.00	10.2	2.2	4.00	7.9	1.5	3.00		
		25	16	11.3	9.6	3.31	10.6	9.4	3.54	10.0	9.1	3.77	9.1	8.7	3.77	7.0	7.0	2.83		
			19	12.1	7.6	3.46	11.3	7.2	3.70	10.6	7.0	3.93	9.7	6.5	3.93	7.4	5.6	2.95		
			22	13.2	5.7	3.58	12.4	5.4	3.82	11.7	5.1	4.07	10.6	4.7	4.07	8.2	3.9	3.05		
		27	16	11.7	11.1	3.37	10.9	10.6	3.60	10.3	10.3	3.83	9.4	9.4	3.83	7.2	7.2	2.88		
			19	12.5	8.9	3.51	11.7	8.6	3.76	11.0	8.3	4.00	10.0	7.9	4.00	7.7	7.0	3.00		
			22	13.7	6.9	3.64	12.8	6.6	3.89	12.1	6.4	4.14	11.0	6.0	4.14	8.4	5.0	3.10		
		29	16	11.9	11.8	3.38	11.1	11.1	3.61	10.5	10.5	3.84	9.5	9.5	3.84	7.3	7.3	2.88		
			19	12.7	10.2	3.52	11.9	9.9	3.77	11.2	9.5	4.01	10.1	9.2	4.01	7.8	7.8	3.01		
			22	13.9	8.2	3.64	13.0	7.8	3.90	12.2	7.7	4.15	11.1	7.1	4.15	8.6	6.3	3.11		
		32	16	12.1	12.1	3.39	11.3	11.3	3.62	10.6	10.6	3.85	9.6	9.6	3.85	7.4	7.4	2.89		
			19	12.9	12.1	3.53	12.0	11.7	3.78	11.3	11.3	4.02	10.3	10.3	4.02	7.9	7.9	3.01		
			22	14.1	10.1	3.65	13.2	9.7	3.91	12.4	9.5	4.16	11.3	9.1	4.16	8.7	8.1	3.12		
S-6010PK3E×2 (S-6010PK3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.1	10.1	3.91	12.3	8.3	4.18	11.5	7.9	4.45	10.5	7.5	4.45	8.1	6.4	3.34		
			19	14.0	7.4	4.08	13.1	5.7	4.36	12.3	5.4	4.64	11.2	5.0	4.64	8.6	4.0	3.48		
			22	15.4	5.2	4.22	14.4	3.4	4.51	13.5	3.0	4.80	12.3	2.6	4.80	9.5	1.7	3.60		
		25	16	13.6	11.9	3.98	12.7	11.5	4.25	12.0	11.1	4.53	10.9	10.6	4.53	8.4	8.4	3.39		
			19	14.5	9.2	4.15	13.6	8.9	4.43	12.8	8.6	4.72	11.6	8.1	4.72	8.9	7.0	3.54		
			22	15.9	6.9	4.29	14.9	6.5	4.59	14.0	6.2	4.88	12.7	5.7	4.88	9.8	4.7	3.66		
		27	16	14.0	13.6	4.04	13.1	13.0	4.32	12.4	12.4	4.60	11.2	11.2	4.60	8.7	8.7	3.45		
			19	15.0	10.9	4.22	14.0	10.5	4.51	13.2	10.2	4.80	12.0	9.7	4.80	9.2	8.6	3.60		
			22	16.4	8.5	4.36	15.4	8.1	4.66	14.5	7.8	4.97	13.1	7.3	4.97	10.1	6.3	3.72		
		29	16	14.3	14.3	4.05	13.3	13.3	4.33	12.5	12.5	4.61	11.4	11.4	4.61	8.8	8.8	3.46		
			19	15.2	12.5	4.23	14.2	12.0	4.52	13.4	11.7	4.81	12.2	11.2	4.81	9.4	9.4	3.61		
			22	16.7	9.9	4.37	15.6	9.7	4.68	14.7	9.3	4.98	13.3	8.9	4.98	10.3	7.7	3.73		
		32	16	14.5	14.5	4.06	13.5	13.5	4.34	12.7	12.7	4.62	11.6	11.6	4.62	8.9	8.9	3.47		
			19	15.4	14.9	4.24	14.4	14.4	4.53	13.6	13.6	4.82	12.4	12.4	4.82	9.5	9.5	3.62		
			22	16.9	12.4	4.38	15.8	12.0	4.69	14.9	11.6	4.99	13.5	11.1	4.99	10.4	10.0	3.74		
S-6010PK3E×2 (S-6010PK3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	11.0	4.56	13.9	9.0	4.88	13.1	8.6	5.19	11.9	8.1	5.19	9.2	6.9	3.90		
			19	15.9	8.4	4.76	14.9	6.4	5.09	14.0	6.1	5.42	12.7	5.6	5.42	9.8	4.4	4.06		
			22	17.5	5.9	4.92	16.3	4.1	5.26	15.4	3.7	5.60	14.0	3.2	5.60	10.7	2.1	4.20		
		25	16	15.4	12.7	4.64	14.4	12.2	4.96	13.6	11.9	5.28	12.3	11.2	5.28	9.5	9.5	3.96		
			19	16.5	10.1	4.84	15.4	9.7	5.17	14.5	9.2	5.51	13.2	8.7	5.51	10.2	7.5	4.13		
			22	18.1	7.7	5.01	16.9	7.2	5.35	15.9	6.8	5.70	14.4	6.3	5.70	11.1	5.1	4.27		
		27	16	16.0	14.5	4.72	14.9	14.0	5.04	14.0	13.6	5.37	12.8	12.8	5.37	9.8	9.8	4.03		
			19	17.0	11.8	4.92	15.9	11.4	5.26	15.0	10.9	5.60	13.6	10.4	5.60	10.5	9.1	4.20		
			22	18.7	9.4	5.09	17.5	8.9	5.44	16.4	8.5	5.79	14.9	8.0	5.79	11.5	6.7	4.35		
		29	16	16.2	16.1	4.73	15.2	15.2	5.05	14.3	14.3	5.38	13.0	13.0	5.38	10.0	10.0	4.04		
			19	17.3	13.4	4.93	16.2	12.9	5.27	15.2	12.5	5.61	13.8	11.9	5.61	10.7	10.6	4.21		
			22	19.0	11.0	5.10	17.7	10.5	5.45	16.7	10.1	5.81	15.2	9.5	5.81	11.7	8.2	4.36		
		32	16	16.4	16.4	4.74	15.4	15.4	5.07	14.5	14.5	5.40	13.1	13.1	5.40	10.1	10.1	4.05		
			19	17.6	15.8	4.94	16.4	15.3	5.29	15.4	14.9	5.63	14.0	14.0	5.63	10.8	10.8	4.22		
			22	19.2	13.3	5.11	18.0	12.8	5.47	16.9	12.3	5.82	15.4	11.8	5.82	11.8	10.5	4.37		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-3. Wall Mounted Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			46°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PK3E (S-3650PK3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	23	16	3.7	3.0	0.570	3.5	2.4	0.642	3.3	2.3	0.721	3.0	2.2	0.837	2.5	2.0	0.812
			19	4.1	2.3	0.577	3.9	1.7	0.651	3.6	1.6	0.730	3.3	1.5	0.847	2.8	1.2	0.821
			22	4.8	1.6	0.582	4.5	1.1	0.657	4.2	1.0	0.736	3.9	0.8	0.854	3.3	0.6	0.829
		25	16	3.7	3.5	0.570	3.5	3.4	0.642	3.3	3.3	0.721	3.0	3.0	0.837	2.5	2.5	0.812
			19	4.1	2.8	0.577	3.9	2.6	0.651	3.6	2.5	0.730	3.3	2.5	0.847	2.8	2.2	0.821
			22	4.8	2.2	0.582	4.5	2.0	0.657	4.2	1.9	0.736	3.9	1.8	0.854	3.3	1.5	0.829
		27	16	3.7	3.7	0.570	3.5	3.5	0.642	3.3	3.3	0.721	3.0	3.0	0.837	2.5	2.5	0.812
			19	4.1	3.3	0.577	3.9	3.1	0.651	3.6	3.0	0.730	3.3	3.0	0.847	2.8	2.7	0.821
			22	4.8	2.6	0.582	4.5	2.5	0.657	4.2	2.4	0.736	3.9	2.3	0.854	3.3	2.0	0.829
		29	16	3.7	3.7	0.570	3.5	3.5	0.642	3.3	3.3	0.721	3.0	3.0	0.837	2.5	2.5	0.812
			19	4.1	3.7	0.577	3.9	3.6	0.651	3.6	3.5	0.730	3.3	3.3	0.847	2.8	2.8	0.821
			22	4.8	3.1	0.582	4.5	3.0	0.657	4.2	2.9	0.736	3.9	2.7	0.854	3.3	2.5	0.829
		32	16	3.7	3.7	0.570	3.5	3.5	0.642	3.3	3.3	0.721	3.0	3.0	0.837	2.5	2.5	0.812
			19	4.1	4.1	0.577	3.9	3.9	0.651	3.6	3.6	0.730	3.3	3.3	0.847	2.8	2.8	0.821
			22	4.8	3.8	0.582	4.5	3.7	0.657	4.2	3.6	0.736	3.9	3.5	0.854	3.3	3.2	0.829
S-3650PK3E (S-3650PK3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	4.1	0.921	4.9	3.4	1.04	4.5	3.1	1.17	4.2	3.0	1.35	3.5	2.6	1.31
			19	5.7	3.0	0.932	5.4	2.4	1.05	5.0	2.3	1.18	4.6	2.0	1.37	3.9	1.7	1.33
			22	6.4	2.1	0.940	6.0	1.4	1.06	5.6	1.3	1.19	5.2	1.1	1.38	4.4	0.8	1.34
		25	16	5.1	4.6	0.921	4.9	4.6	1.04	4.5	4.3	1.17	4.2	4.2	1.35	3.5	3.5	1.31
			19	5.7	3.6	0.932	5.4	3.6	1.05	5.0	3.4	1.18	4.6	3.2	1.37	3.9	2.9	1.33
			22	6.4	2.8	0.940	6.0	2.6	1.06	5.6	2.4	1.19	5.2	2.3	1.38	4.4	2.0	1.34
		27	16	5.1	5.1	0.921	4.9	4.9	1.04	4.5	4.5	1.17	4.2	4.2	1.35	3.5	3.5	1.31
			19	5.7	4.2	0.932	5.4	4.1	1.05	5.0	3.9	1.18	4.6	3.7	1.37	3.9	3.5	1.33
			22	6.4	3.3	0.940	6.0	3.1	1.06	5.6	3.0	1.19	5.2	2.9	1.38	4.4	2.6	1.34
		29	16	5.1	5.1	0.921	4.9	4.9	1.04	4.5	4.5	1.17	4.2	4.2	1.35	3.5	3.5	1.31
			19	5.7	4.8	0.932	5.4	4.7	1.05	5.0	4.6	1.18	4.6	4.3	1.37	3.9	3.9	1.33
			22	6.4	3.9	0.940	6.0	3.7	1.06	5.6	3.6	1.19	5.2	3.5	1.38	4.4	3.1	1.34
		32	16	5.1	5.1	0.921	4.9	4.9	1.04	4.5	4.5	1.17	4.2	4.2	1.35	3.5	3.5	1.31
			19	5.7	5.7	0.932	5.4	5.4	1.05	5.0	5.0	1.18	4.6	4.6	1.37	3.9	3.9	1.33
			22	6.4	4.8	0.940	6.0	4.6	1.06	5.6	4.5	1.19	5.2	4.3	1.38	4.4	4.0	1.34
S-6010PK3E (S-6010PK3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	23	16	6.3	4.9	1.23	6.0	4.0	1.39	5.5	3.8	1.56	5.1	3.6	1.81	4.6	3.4	2.03
			19	6.9	3.7	1.25	6.6	2.9	1.41	6.1	2.7	1.58	5.6	2.4	1.83	5.1	2.3	2.05
			22	7.8	2.6	1.26	7.3	1.7	1.42	6.8	1.6	1.59	6.3	1.3	1.85	5.7	1.2	2.07
		25	16	6.3	5.6	1.23	6.0	5.4	1.39	5.5	5.2	1.56	5.1	5.0	1.81	4.6	4.6	2.03
			19	6.9	4.5	1.25	6.6	4.3	1.41	6.1	4.1	1.58	5.6	3.9	1.83	5.1	3.7	2.05
			22	7.8	3.4	1.26	7.3	3.2	1.42	6.8	3.0	1.59	6.3	2.7	1.85	5.7	2.6	2.07
		27	16	6.3	6.3	1.23	6.0	6.0	1.39	5.5	5.5	1.56	5.1	5.1	1.81	4.6	4.6	2.03
			19	6.9	5.2	1.25	6.6	5.0	1.41	6.1	4.8	1.58	5.6	4.6	1.83	5.1	4.4	2.05
			22	7.8	4.1	1.26	7.3	3.9	1.42	6.8	3.7	1.59	6.3	3.4	1.85	5.7	3.3	2.07
		29	16	6.3	6.3	1.23	6.0	6.0	1.39	5.5	5.5	1.56	5.1	5.1	1.81	4.6	4.6	2.03
			19	6.9	5.9	1.25	6.6	5.8	1.41	6.1	5.6	1.58	5.6	5.3	1.83	5.1	5.1	2.05
			22	7.8	4.8	1.26	7.3	4.6	1.42	6.8	4.4	1.59	6.3	4.2	1.85	5.7	4.0	2.07
		32	16	6.3	6.3	1.23	6.0	6.0	1.39	5.5	5.5	1.56	5.1	5.1	1.81	4.6	4.6	2.03
			19	6.9	6.9	1.25	6.6	6.6	1.41	6.1	6.1	1.58	5.6	5.6	1.83	5.1	5.1	2.05
			22	7.8	5.9	1.26	7.3	5.6	1.42	6.8	5.5	1.59	6.3	5.2	1.85	5.7	5.1	2.07

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-3. Wall Mounted Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-6010PK3E (S-6010PK3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	6.0	2.66	8.1	5.1	2.89	7.9	5.0	3.11	7.1	4.6	2.88	2.8	2.8	1.06		
			19	9.0	4.6	2.78	8.7	3.7	3.01	8.4	3.6	3.24	7.5	3.3	3.00	2.9	1.4	1.10		
			22	9.9	3.4	2.88	9.5	2.5	3.11	9.2	2.4	3.35	8.3	2.0	3.11	3.2	0.4	1.14		
		25	16	8.7	6.9	2.71	8.4	6.7	2.93	8.1	6.6	3.16	7.3	6.2	2.93	2.9	2.9	1.07		
			19	9.3	5.5	2.83	9.0	5.4	3.06	8.7	5.2	3.30	7.8	4.8	3.05	3.0	3.0	1.12		
			22	10.2	4.3	2.92	9.9	4.1	3.17	9.5	4.0	3.41	8.6	3.6	3.16	3.3	1.8	1.16		
		27	16	9.0	7.8	2.75	8.7	7.6	2.98	8.4	7.5	3.21	7.6	7.0	2.98	2.9	2.9	1.09		
			19	9.6	6.4	2.87	9.3	6.2	3.11	9.0	6.2	3.35	8.1	5.7	3.11	3.2	3.2	1.14		
			22	10.6	5.1	2.97	10.2	5.0	3.22	9.9	4.9	3.47	8.9	4.4	3.21	3.5	2.5	1.18		
		29	16	9.2	8.6	2.76	8.9	8.5	2.99	8.6	8.3	3.22	7.7	7.7	2.98	3.0	3.0	1.09		
			19	9.8	7.2	2.88	9.5	7.1	3.12	9.1	6.9	3.36	8.2	6.5	3.11	3.2	3.2	1.14		
			22	10.7	5.9	2.98	10.4	5.8	3.23	10.0	5.7	3.47	9.0	5.2	3.22	3.5	3.2	1.18		
		32	16	9.3	9.3	2.77	9.0	9.0	3.00	8.7	8.7	3.23	7.8	7.8	2.99	3.0	3.0	1.10		
			19	9.9	8.4	2.89	9.6	8.3	3.13	9.3	8.1	3.37	8.3	7.7	3.12	3.2	3.2	1.14		
			22	10.9	7.1	2.99	10.5	7.0	3.24	10.2	6.8	3.48	9.1	6.4	3.23	3.6	3.6	1.18		
S-6010PK3E (S-6010PK3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	10.0	6.9	2.87	9.6	5.9	3.01	9.2	5.7	3.15	8.2	5.2	2.87	3.7	3.1	1.49		
			19	10.6	5.5	2.99	10.2	4.4	3.14	9.8	4.2	3.29	8.7	3.7	2.99	4.0	1.8	1.56		
			22	11.7	4.1	3.09	11.2	3.1	3.25	10.7	2.9	3.40	9.6	2.5	3.09	4.4	0.6	1.61		
		25	16	10.3	8.0	2.91	9.9	7.7	3.06	9.5	7.5	3.21	8.5	6.9	2.92	3.9	3.9	1.52		
			19	11.0	6.5	3.04	10.6	6.3	3.19	10.2	6.1	3.34	9.0	5.6	3.04	4.1	3.5	1.59		
			22	12.1	5.1	3.14	11.6	4.8	3.30	11.1	4.7	3.46	9.9	4.2	3.15	4.5	2.3	1.64		
		27	16	10.7	8.9	2.96	10.2	8.8	3.11	9.8	8.5	3.26	8.8	7.9	2.96	4.0	4.0	1.55		
			19	11.4	7.5	3.09	10.9	7.3	3.25	10.5	6.9	3.40	9.4	6.5	3.09	4.3	4.2	1.61		
			22	12.5	6.0	3.20	12.0	6.0	3.36	11.5	5.6	3.52	10.2	5.2	3.20	4.7	3.1	1.67		
		29	16	10.8	9.7	2.97	10.4	9.7	3.12	10.0	9.4	3.27	8.9	8.9	2.97	4.0	4.0	1.55		
			19	11.6	8.4	3.10	11.1	8.1	3.25	10.7	7.9	3.41	9.5	7.4	3.10	4.3	4.3	1.62		
			22	12.7	7.0	3.21	12.2	6.8	3.37	11.7	6.5	3.53	10.4	6.0	3.21	4.7	4.0	1.67		
		32	16	11.0	11.0	2.98	10.6	10.6	3.13	10.1	10.1	3.28	9.0	9.0	2.98	4.1	4.1	1.55		
			19	11.7	9.6	3.11	11.3	9.4	3.26	10.8	9.3	3.42	9.6	8.7	3.11	4.4	4.4	1.62		
			22	12.9	8.3	3.21	12.4	8.1	3.37	11.8	7.8	3.53	10.6	7.3	3.21	4.8	4.8	1.68		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-3. Wall Mounted Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			48°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PK3E×2 (S-3650PK3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	6.5	2.66	8.1	5.4	2.89	7.9	5.3	3.11	7.1	4.9	2.88	2.8	2.8	1.06
			19	9.0	4.9	2.78	8.7	3.8	3.01	8.4	3.6	3.24	7.5	3.3	3.00	2.9	1.5	1.10
			22	9.9	3.3	2.88	9.5	2.3	3.11	9.2	2.2	3.35	8.3	1.8	3.11	3.2	0.2	1.14
		25	16	8.7	7.7	2.71	8.4	7.5	2.93	8.1	7.4	3.16	7.3	7.0	2.93	2.9	2.9	1.07
			19	9.3	6.0	2.83	9.0	5.8	3.06	8.7	5.7	3.30	7.8	5.3	3.05	3.0	3.0	1.12
			22	10.2	4.4	2.92	9.9	4.3	3.17	9.5	4.2	3.41	8.6	3.8	3.16	3.3	2.0	1.16
		27	16	9.0	8.8	2.75	8.7	8.6	2.98	8.4	8.4	3.21	7.6	7.6	2.98	2.9	2.9	1.09
			19	9.6	7.1	2.87	9.3	6.9	3.11	9.0	6.8	3.35	8.1	6.4	3.11	3.2	3.2	1.14
			22	10.6	5.5	2.97	10.2	5.4	3.22	9.9	5.2	3.47	8.9	4.9	3.21	3.5	2.9	1.18
		29	16	9.2	9.2	2.76	8.9	8.9	2.99	8.6	8.6	3.22	7.7	7.7	2.98	3.0	3.0	1.09
			19	9.8	8.1	2.88	9.5	7.9	3.12	9.1	7.8	3.36	8.2	7.4	3.11	3.2	3.2	1.14
			22	10.7	6.5	2.98	10.4	6.4	3.23	10.0	6.2	3.47	9.0	5.8	3.22	3.5	3.5	1.18
		32	16	9.3	9.3	2.77	9.0	9.0	3.00	8.7	8.7	3.23	7.8	7.8	2.99	3.0	3.0	1.10
			19	9.9	9.6	2.89	9.6	9.4	3.13	9.3	9.3	3.37	8.3	8.3	3.12	3.2	3.2	1.14
			22	10.9	8.0	2.99	10.5	7.9	3.24	10.2	7.7	3.48	9.1	7.3	3.23	3.6	3.6	1.18
S-3650PK3E×2 (S-3650PK3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	8.7	3.12	11.4	7.2	3.28	10.9	7.0	3.43	9.7	6.6	3.12	4.4	4.3	1.63
			19	12.7	6.6	3.25	12.2	5.2	3.42	11.7	5.0	3.58	10.4	4.5	3.26	4.7	2.4	1.70
			22	13.9	4.6	3.37	13.3	3.3	3.53	12.8	3.2	3.70	11.4	2.7	3.37	5.2	0.5	1.76
		25	16	12.3	10.1	3.17	11.8	9.8	3.33	11.3	9.7	3.49	10.1	9.1	3.17	4.6	4.6	1.65
			19	13.1	8.0	3.31	12.6	7.8	3.47	12.1	7.5	3.64	10.8	7.1	3.31	4.9	4.8	1.73
			22	14.4	6.0	3.42	13.8	5.8	3.59	13.2	5.7	3.77	11.8	5.0	3.42	5.4	2.8	1.78
		27	16	12.7	11.5	3.22	12.2	11.2	3.39	11.7	11.0	3.55	10.4	10.4	3.23	4.7	4.7	1.68
			19	13.6	9.4	3.36	13.0	9.2	3.53	12.5	8.9	3.70	11.1	8.4	3.36	5.1	5.0	1.75
			22	14.9	7.4	3.48	14.3	7.3	3.65	13.7	6.9	3.83	12.2	6.5	3.48	5.5	4.1	1.81
		29	16	12.9	12.9	3.23	12.4	12.4	3.39	11.9	11.9	3.56	10.6	10.6	3.23	4.8	4.8	1.69
			19	13.8	10.6	3.37	13.2	10.4	3.54	12.7	10.2	3.71	11.3	9.5	3.37	5.1	5.1	1.76
			22	15.1	8.7	3.49	14.5	8.4	3.66	13.9	8.2	3.84	12.4	7.7	3.49	5.6	5.3	1.82
		32	16	13.1	13.1	3.24	12.6	12.6	3.40	12.1	12.1	3.56	10.7	10.7	3.24	4.9	4.9	1.69
			19	14.0	12.5	3.38	13.4	12.3	3.55	12.9	12.0	3.72	11.5	11.4	3.38	5.2	5.2	1.76
			22	15.3	10.5	3.50	14.7	10.3	3.67	14.1	10.1	3.85	12.6	9.5	3.50	5.7	5.7	1.82
S-6010PK3E×2 (S-6010PK3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	10.1	3.96	12.8	8.5	4.16	12.2	8.1	4.36	10.9	7.6	3.96	4.5	4.5	1.68
			19	14.2	7.5	4.13	13.6	5.9	4.34	13.1	5.7	4.55	11.6	5.2	4.13	4.8	2.6	1.75
			22	15.5	5.3	4.28	14.9	3.6	4.49	14.3	3.2	4.70	12.8	2.8	4.28	5.3	0.2	1.81
		25	16	13.7	11.8	4.03	13.2	11.7	4.23	12.7	11.5	4.43	11.3	10.8	4.03	4.7	4.7	1.71
			19	14.7	9.2	4.20	14.1	9.1	4.41	13.5	8.9	4.62	12.1	8.3	4.20	5.0	5.0	1.78
			22	16.1	6.9	4.35	15.5	6.6	4.57	14.8	6.5	4.78	13.2	5.9	4.35	5.5	3.3	1.84
		27	16	14.2	13.7	4.10	13.7	13.4	4.30	13.1	13.1	4.51	11.7	11.7	4.10	4.8	4.8	1.73
			19	15.2	10.9	4.27	14.6	10.8	4.49	14.0	10.4	4.70	12.5	9.9	4.27	5.2	5.2	1.81
			22	16.6	8.6	4.42	16.0	8.3	4.64	15.3	8.1	4.86	13.7	7.5	4.42	5.7	4.8	1.87
		29	16	14.4	14.4	4.11	13.9	13.9	4.31	13.3	13.3	4.52	11.8	11.8	4.11	4.9	4.9	1.74
			19	15.4	12.5	4.28	14.8	12.4	4.50	14.2	12.1	4.71	12.7	11.3	4.28	5.3	5.3	1.81
			22	16.9	10.2	4.43	16.2	9.9	4.65	15.6	9.5	4.87	13.9	9.0	4.43	5.8	5.8	1.88
		32	16	14.6	14.6	4.12	14.1	14.1	4.32	13.5	13.5	4.53	12.0	12.0	4.12	5.0	5.0	1.74
			19	15.6	15.0	4.29	15.0	14.7	4.51	14.4	14.3	4.72	12.8	12.8	4.30	5.3	5.3	1.82
			22	17.1	12.5	4.44	16.5	12.2	4.66	15.8	12.0	4.89	14.1	11.3	4.44	5.8	5.8	1.88
S-6010PK3E×2 (S-6010PK3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	11.0	5.06	14.6	9.4	5.31	14.0	8.9	5.56	12.5	8.2	5.06	4.6	4.6	1.67
			19	16.2	8.5	5.28	15.6	6.7	5.54	14.9	6.4	5.80	13.3	5.7	5.28	4.9	2.5	1.74
			22	17.8	6.1	5.46	17.1	4.4	5.73	16.4	4.0	6.00	14.6	3.5	5.46	5.4	0.3	1.80
		25	16	15.7	12.8	5.14	15.1	12.5	5.40	14.5	12.2	5.66	12.9	11.4	5.15	4.8	4.8	1.70
			19	16.8	10.3	5.36	16.1	9.9	5.63	15.5	9.6	5.90	13.8	8.8	5.37	5.1	5.1	1.77
			22	18.4	7.8	5.55	17.7	7.4	5.83	17.0	7.1	6.11	15.1	6.6	5.55	5.6	3.2	1.83
		27	16	16.2	14.6	5.23	15.6	14.2	5.49	15.0	13.9	5.75	13.3	13.1	5.23	4.9	4.9	1.73
			19	17.4	12.0	5.45	16.7	11.6	5.73	16.0	11.3	6.00	14.3	10.5	5.46	5.3	5.3	1.80
			22	19.0	9.4	5.64	18.3	9.1	5.92	17.5	8.8	6.21	15.6	8.1	5.65	5.8	4.8	1.86
		29	16	16.5	16.2	5.24	15.8	15.8	5.50	15.2	15.2	5.77	13.5	13.5	5.24	5.0	5.0	1.73
			19	17.6	13.5	5.47	16.9	13.2	5.74	16.2	13.0	6.01	14.5	12.2	5.47	5.4	5.4	1.80
			22	19.3	11.0	5.66	18.5	10.7	5.94	17.8	10.5	6.22	15.8	9.6	5.66	5.9	5.9	1.87
		32	16	16.7	16.7	5.25	16.1	16.1	5.52	15.4	15.4	5.78	13.7	13.7	5.26	5.1	5.1	1.73
			19	17.9	15.8	5.48	17.2	15.5	5.76	16.5	15.2	6.03	14.7	14.4	5.48	5.4	5.4	1.81
			22	19.6	13.3	5.67	18.8	13.0	5.95	18.1	12.7	6.24	16.1	11.9	5.67	6.0	6.0	1.87

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-3. Wall Mounted Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			48°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PK3E×3 (S-3650PK3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	9.4	3.12	11.4	7.7	3.28	10.9	7.6	3.43	9.7	7.0	3.12	4.4	4.4	1.63
			19	12.7	7.0	3.25	12.2	5.3	3.42	11.7	5.1	3.58	10.4	4.6	3.26	4.7	2.5	1.70
			22	13.9	4.6	3.37	13.3	3.1	3.53	12.8	2.8	3.70	11.4	2.3	3.37	5.2	0.2	1.76
		25	16	12.3	11.0	3.17	11.8	10.8	3.33	11.3	10.6	3.49	10.1	10.1	3.17	4.6	4.6	1.65
			19	13.1	8.6	3.31	12.6	8.4	3.47	12.1	8.2	3.64	10.8	7.6	3.31	4.9	4.9	1.73
			22	14.4	6.3	3.42	13.8	6.0	3.59	13.2	5.9	3.77	11.8	5.3	3.42	5.4	3.1	1.78
		27	16	12.7	12.7	3.22	12.2	12.2	3.39	11.7	11.7	3.55	10.4	10.4	3.23	4.7	4.7	1.68
			19	13.6	10.2	3.36	13.0	10.0	3.53	12.5	9.8	3.70	11.1	9.2	3.36	5.1	5.1	1.75
			22	14.9	7.8	3.48	14.3	7.6	3.65	13.7	7.4	3.83	12.2	6.9	3.48	5.5	4.5	1.81
		29	16	12.9	12.9	3.23	12.4	12.4	3.39	11.9	11.9	3.56	10.6	10.6	3.23	4.8	4.8	1.69
			19	13.8	11.7	3.37	13.2	11.5	3.54	12.7	11.3	3.71	11.3	10.7	3.37	5.1	5.1	1.76
			22	15.1	9.4	3.49	14.5	9.1	3.66	13.9	8.9	3.84	12.4	8.4	3.49	5.6	5.6	1.82
		32	16	13.1	13.1	3.24	12.6	12.6	3.40	12.1	12.1	3.56	10.7	10.7	3.24	4.9	4.9	1.69
			19	14.0	14.0	3.38	13.4	13.4	3.55	12.9	12.9	3.72	11.5	11.5	3.38	5.2	5.2	1.76
			22	15.3	11.6	3.50	14.7	11.4	3.67	14.1	11.1	3.85	12.6	10.6	3.50	5.7	5.7	1.82
S-3650PK3E×3 (S-3650PK3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	10.6	3.96	12.8	8.6	4.16	12.2	8.5	4.36	10.9	7.9	3.96	4.5	4.5	1.68
			19	14.2	7.8	4.13	13.6	6.0	4.34	13.1	5.8	4.55	11.6	5.2	4.13	4.8	2.7	1.75
			22	15.5	5.1	4.28	14.9	3.4	4.49	14.3	3.1	4.70	12.8	2.7	4.28	5.3	0.1	1.81
		25	16	13.7	12.5	4.03	13.2	12.0	4.23	12.7	11.9	4.43	11.3	11.3	4.03	4.7	4.7	1.71
			19	14.7	9.6	4.20	14.1	9.4	4.41	13.5	9.0	4.62	12.1	8.6	4.20	5.0	5.0	1.78
			22	16.1	7.0	4.35	15.5	6.7	4.57	14.8	6.6	4.78	13.2	6.0	4.35	5.5	3.4	1.84
		27	16	14.2	14.2	4.10	13.7	13.7	4.30	13.1	13.1	4.51	11.7	11.7	4.10	4.8	4.8	1.73
			19	15.2	11.4	4.27	14.6	11.1	4.49	14.0	10.8	4.70	12.5	10.2	4.27	5.2	5.2	1.81
			22	16.6	8.7	4.42	16.0	8.6	4.64	15.3	8.3	4.86	13.7	7.7	4.42	5.7	5.0	1.87
		29	16	14.4	14.4	4.11	13.9	13.9	4.31	13.3	13.3	4.52	11.8	11.8	4.11	4.9	4.9	1.74
			19	15.4	13.1	4.28	14.8	12.9	4.50	14.2	12.6	4.71	12.7	12.0	4.28	5.3	5.3	1.81
			22	16.9	10.5	4.43	16.2	10.3	4.65	15.6	9.9	4.87	13.9	9.2	4.43	5.8	5.8	1.88
		32	16	14.6	14.6	4.12	14.1	14.1	4.32	13.5	13.5	4.53	12.0	12.0	4.12	5.0	5.0	1.74
			19	15.6	15.5	4.29	15.0	15.0	4.51	14.4	14.4	4.72	12.8	12.8	4.30	5.3	5.3	1.82
			22	17.1	12.8	4.44	16.5	12.7	4.66	15.8	12.5	4.89	14.1	11.8	4.44	5.8	5.8	1.88
S-3650PK3E×3 (S-3650PK3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	11.9	5.06	14.6	9.8	5.31	14.0	9.6	5.56	12.5	8.9	5.06	4.6	4.6	1.67
			19	16.2	8.8	5.28	15.6	6.8	5.54	14.9	6.6	5.80	13.3	5.9	5.28	4.9	2.6	1.74
			22	17.8	5.8	5.46	17.1	4.0	5.73	16.4	3.8	6.00	14.6	3.1	5.46	5.4	0.0	1.80
		25	16	15.7	13.8	5.14	15.1	13.7	5.40	14.5	13.3	5.66	12.9	12.6	5.15	4.8	4.8	1.70
			19	16.8	10.9	5.36	16.1	10.6	5.63	15.5	10.3	5.90	13.8	9.6	5.37	5.1	5.1	1.77
			22	18.4	8.0	5.55	17.7	7.7	5.83	17.0	7.3	6.11	15.1	6.8	5.55	5.6	3.5	1.83
		27	16	16.2	16.0	5.23	15.6	15.6	5.49	15.0	15.0	5.75	13.3	13.3	5.23	4.9	4.9	1.73
			19	17.4	12.7	5.45	16.7	12.6	5.73	16.0	12.3	6.00	14.3	11.6	5.46	5.3	5.3	1.80
			22	19.0	10.0	5.64	18.3	9.7	5.92	17.5	9.4	6.21	15.6	8.7	5.65	5.8	5.4	1.86
		29	16	16.5	16.5	5.24	15.8	15.8	5.50	15.2	15.2	5.77	13.5	13.5	5.24	5.0	5.0	1.73
			19	17.6	14.7	5.47	16.9	14.5	5.74	16.2	14.2	6.01	14.5	13.4	5.47	5.4	5.4	1.80
			22	19.3	11.8	5.66	18.5	11.5	5.94	17.8	11.3	6.22	15.8	10.5	5.66	5.9	5.9	1.87
		32	16	16.7	16.7	5.25	16.1	16.1	5.52	15.4	15.4	5.78	13.7	13.7	5.26	5.1	5.1	1.73
			19	17.9	17.4	5.48	17.2	17.2	5.76	16.5	16.5	6.03	14.7	14.7	5.48	5.4	5.4	1.81
			22	19.6	14.6	5.67	18.8	14.3	5.95	18.1	14.0	6.24	16.1	13.3	5.67	6.0	6.0	1.87
S-3650PK3E×4 (S-3650PK3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	11.4	3.96	12.8	9.3	4.16	12.2	9.1	4.36	10.9	8.5	3.96	4.5	4.5	1.68
			19	14.2	8.2	4.13	13.6	6.1	4.34	13.1	5.8	4.55	11.6	5.3	4.13	4.8	2.9	1.75
			22	15.5	5.1	4.28	14.9	3.0	4.49	14.3	2.8	4.70	12.8	2.3	4.28	5.3	0.2	1.81
		25	16	13.7	13.6	4.03	13.2	13.2	4.23	12.7	12.7	4.43	11.3	11.3	4.03	4.7	4.7	1.71
			19	14.7	10.3	4.20	14.1	10.1	4.41	13.5	9.8	4.62	12.1	9.3	4.20	5.0	5.0	1.78
			22	16.1	7.2	4.35	15.5	7.0	4.57	14.8	6.8	4.78	13.2	6.2	4.35	5.5	3.8	1.84
		27	16	14.2	14.2	4.10	13.7	13.7	4.30	13.1	13.1	4.51	11.7	11.7	4.10	4.8	4.8	1.73
			19	15.2	12.4	4.27	14.6	12.2	4.49	14.0	12.0	4.70	12.5	11.3	4.27	5.2	5.2	1.81
			22	16.6	9.3	4.42	16.0	9.1	4.64	15.3	8.9	4.86	13.7	8.3	4.42	5.7	5.7	1.87
		29	16	14.4	14.4	4.11	13.9	13.9	4.31	13.3	13.3	4.52	11.8	11.8	4.11	4.9	4.9	1.74
			19	15.4	14.5	4.28	14.8	14.2	4.50	14.2	14.0	4.71	12.7	12.7	4.28	5.3	5.3	1.81
			22	16.9	11.3	4.43	16.2	11.1	4.65	15.6	10.8	4.87	13.9	10.3	4.43	5.8	5.8	1.88
		32	16	14.6	14.6	4.12	14.1	14.1	4.32	13.5	13.5	4.53	12.0	12.0	4.12	5.0	5.0	1.74
			19	15.6	15.6	4.29	15.0	15.0	4.51	14.4	14.4	4.72	12.8	12.8	4.30	5.3	5.3	1.82
			22	17.1	14.2	4.44	16.5	14.0	4.66	15.8	13.7	4.89	14.1	13.1	4.44	5.8	5.8	1.88

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-3650PT3E (S-3650PT3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	23	16	3.5	3.0	0.634	3.3	2.4	0.744	3.1	2.3	0.849	2.9	2.2	0.967	2.8	2.2	1.03
			19	3.9	2.2	0.630	3.7	1.6	0.740	3.5	1.5	0.845	3.3	1.5	0.962	3.2	1.4	1.03
			22	4.3	1.5	0.621	4.1	0.9	0.730	3.9	0.8	0.833	3.6	0.7	0.948	3.5	0.6	1.01
		25	16	3.5	3.5	0.634	3.3	3.3	0.744	3.1	3.1	0.849	2.9	2.9	0.967	2.8	2.8	1.03
			19	3.9	2.7	0.630	3.7	2.6	0.740	3.5	2.5	0.845	3.3	2.5	0.962	3.2	2.4	1.03
			22	4.3	2.0	0.621	4.1	1.9	0.730	3.9	1.7	0.833	3.6	1.7	0.948	3.5	1.6	1.01
		27	16	3.5	3.5	0.634	3.3	3.3	0.744	3.1	3.1	0.849	2.9	2.9	0.967	2.8	2.8	1.03
			19	3.9	3.2	0.630	3.7	3.1	0.740	3.5	3.0	0.845	3.3	3.0	0.962	3.2	2.9	1.03
			22	4.3	2.5	0.621	4.1	2.4	0.730	3.9	2.2	0.833	3.6	2.1	0.948	3.5	2.1	1.01
		29	16	3.5	3.5	0.634	3.3	3.3	0.744	3.1	3.1	0.849	2.9	2.9	0.967	2.8	2.8	1.03
			19	3.9	3.7	0.630	3.7	3.6	0.740	3.5	3.5	0.845	3.3	3.3	0.962	3.2	3.2	1.03
			22	4.3	3.0	0.621	4.1	2.9	0.730	3.9	2.7	0.833	3.6	2.6	0.948	3.5	2.6	1.01
		32	16	3.5	3.5	0.634	3.3	3.3	0.744	3.1	3.1	0.849	2.9	2.9	0.967	2.8	2.8	1.03
			19	3.9	3.9	0.630	3.7	3.7	0.740	3.5	3.5	0.845	3.3	3.3	0.962	3.2	3.2	1.03
			22	4.3	3.7	0.621	4.1	3.7	0.730	3.9	3.5	0.833	3.6	3.4	0.948	3.5	3.3	1.01
S-3650PT3E (S-3650PT3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	3.9	1.25	4.8	3.2	1.44	4.6	3.1	1.64	4.2	2.9	1.86	4.0	2.8	1.99
			19	5.6	3.0	1.25	5.3	2.3	1.44	5.0	2.2	1.65	4.6	2.0	1.87	4.3	1.9	2.00
			22	6.1	2.1	1.25	5.8	1.4	1.45	5.5	1.3	1.65	5.1	1.2	1.87	4.8	1.0	2.00
		25	16	5.1	4.4	1.25	4.8	4.3	1.44	4.6	4.2	1.64	4.2	4.0	1.86	4.0	3.9	1.99
			19	5.6	3.5	1.25	5.3	3.4	1.44	5.0	3.3	1.65	4.6	3.1	1.87	4.3	3.0	2.00
			22	6.1	2.6	1.25	5.8	2.5	1.45	5.5	2.4	1.65	5.1	2.2	1.87	4.8	2.1	2.00
		27	16	5.1	5.0	1.25	4.8	4.8	1.44	4.6	4.6	1.64	4.2	4.2	1.86	4.0	4.0	1.99
			19	5.6	4.0	1.25	5.3	4.0	1.44	5.0	3.8	1.65	4.6	3.6	1.87	4.3	3.6	2.00
			22	6.1	3.2	1.25	5.8	3.0	1.45	5.5	2.9	1.65	5.1	2.8	1.87	4.8	2.6	2.00
		29	16	5.1	5.1	1.25	4.8	4.8	1.44	4.6	4.6	1.64	4.2	4.2	1.86	4.0	4.0	1.99
			19	5.6	4.6	1.25	5.3	4.5	1.44	5.0	4.3	1.65	4.6	4.2	1.87	4.3	4.1	2.00
			22	6.1	3.7	1.25	5.8	3.6	1.45	5.5	3.4	1.65	5.1	3.3	1.87	4.8	3.2	2.00
		32	16	5.1	5.1	1.25	4.8	4.8	1.44	4.6	4.6	1.64	4.2	4.2	1.86	4.0	4.0	1.99
			19	5.6	5.5	1.25	5.3	5.3	1.44	5.0	5.0	1.65	4.6	4.6	1.87	4.3	4.3	2.00
			22	6.1	4.5	1.25	5.8	4.4	1.45	5.5	4.2	1.65	5.1	4.1	1.87	4.8	4.0	2.00
S-6071PT3E (S-6071PT3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	6.2	4.7	1.30	5.9	4.0	1.47	5.4	3.7	1.65	5.0	3.5	1.91	4.8	3.4	2.06
			19	6.8	3.7	1.32	6.5	2.7	1.49	6.0	2.6	1.67	5.5	2.4	1.94	5.2	2.3	2.09
			22	7.6	2.5	1.33	7.2	1.7	1.50	6.7	1.5	1.68	6.2	1.3	1.95	5.9	1.1	2.11
		25	16	6.2	5.4	1.30	5.9	5.4	1.47	5.4	5.1	1.65	5.0	5.0	1.91	4.8	4.8	2.06
			19	6.8	4.4	1.32	6.5	4.2	1.49	6.0	4.0	1.67	5.5	3.8	1.94	5.2	3.7	2.09
			22	7.6	3.2	1.33	7.2	3.1	1.50	6.7	2.9	1.68	6.2	2.7	1.95	5.9	2.6	2.11
		27	16	6.2	6.2	1.30	5.9	5.9	1.47	5.4	5.4	1.65	5.0	5.0	1.91	4.8	4.8	2.06
			19	6.8	5.1	1.32	6.5	4.9	1.49	6.0	4.7	1.67	5.5	4.5	1.94	5.2	4.4	2.09
			22	7.6	3.9	1.33	7.2	3.8	1.50	6.7	3.6	1.68	6.2	3.5	1.95	5.9	3.3	2.11
		29	16	6.2	6.2	1.30	5.9	5.9	1.47	5.4	5.4	1.65	5.0	5.0	1.91	4.8	4.8	2.06
			19	6.8	5.8	1.32	6.5	5.6	1.49	6.0	5.4	1.67	5.5	5.2	1.94	5.2	5.2	2.09
			22	7.6	4.6	1.33	7.2	4.5	1.50	6.7	4.4	1.68	6.2	4.2	1.95	5.9	4.0	2.11
		32	16	6.2	6.2	1.30	5.9	5.9	1.47	5.4	5.4	1.65	5.0	5.0	1.91	4.8	4.8	2.06
			19	6.8	6.8	1.32	6.5	6.5	1.49	6.0	6.0	1.67	5.5	5.5	1.94	5.2	5.2	2.09
			22	7.6	5.7	1.33	7.2	5.6	1.50	6.7	5.4	1.68	6.2	5.2	1.95	5.9	5.0	2.11
S-6071PT3E (S-6071PT3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	23	16	6.8	5.2	1.63	6.5	4.3	1.83	6.2	4.2	2.07	5.5	3.8	2.26	5.0	3.6	2.34
			19	7.5	4.0	1.66	7.1	3.1	1.86	6.8	3.0	2.10	6.1	2.7	2.30	5.5	2.4	2.37
			22	8.4	2.9	1.69	8.0	2.0	1.90	7.6	1.8	2.13	6.8	1.5	2.33	6.2	1.3	2.41
		25	16	6.8	6.0	1.63	6.5	5.8	1.83	6.2	5.7	2.07	5.5	5.3	2.26	5.0	5.0	2.34
			19	7.5	4.8	1.66	7.1	4.6	1.86	6.8	4.5	2.10	6.1	4.2	2.30	5.5	3.9	2.37
			22	8.4	3.6	1.69	8.0	3.4	1.90	7.6	3.3	2.13	6.8	2.9	2.33	6.2	2.8	2.41
		27	16	6.8	6.8	1.63	6.5	6.5	1.83	6.2	6.2	2.07	5.5	5.5	2.26	5.0	5.0	2.34
			19	7.5	5.5	1.66	7.1	5.4	1.86	6.8	5.2	2.10	6.1	4.8	2.30	5.5	4.6	2.37
			22	8.4	4.4	1.69	8.0	4.2	1.90	7.6	4.1	2.13	6.8	3.7	2.33	6.2	3.5	2.41
		29	16	6.8	6.8	1.63	6.5	6.5	1.83	6.2	6.2	2.07	5.5	5.5	2.26	5.0	5.0	2.34
			19	7.5	6.3	1.66	7.1	6.1	1.86	6.8	6.0	2.10	6.1	5.7	2.30	5.5	5.4	2.37
			22	8.4	5.1	1.69	8.0	4.9	1.90	7.6	4.8	2.13	6.8	4.4	2.33	6.2	4.3	2.41
		32	16	6.8	6.8	1.63	6.5	6.5	1.83	6.2	6.2	2.07	5.5	5.5	2.26	5.0	5.0	2.34
			19	7.5	7.4	1.66	7.1	7.1	1.86	6.8	6.8	2.10	6.1	6.1	2.30	5.5	5.5	2.37
			22	8.4	6.2	1.69	8.0	6.0	1.90	7.6	5.9	2.13	6.8	5.5	2.33	6.2	5.4	2.41

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			43°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-1014PT3E (S-1014PT3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.4	8.6	3.34	10.7	7.1	3.57	10.1	6.7	3.80	9.1	6.4	3.80	7.0	5.5	2.85		
			19	12.2	6.6	3.48	11.4	5.2	3.73	10.7	4.9	3.97	9.8	4.5	3.97	7.5	3.6	2.97		
			22	13.4	4.8	3.60	12.5	3.3	3.85	11.8	3.1	4.10	10.7	2.7	4.10	8.2	1.9	3.08		
		25	16	11.8	10.1	3.40	11.1	9.5	3.63	10.4	9.3	3.87	9.5	8.8	3.87	7.3	7.3	2.90		
			19	12.6	7.9	3.54	11.8	7.6	3.79	11.1	7.4	4.03	10.1	6.8	4.03	7.8	5.9	3.02		
			22	13.9	6.1	3.67	13.0	5.8	3.92	12.2	5.5	4.17	11.1	5.1	4.17	8.5	4.2	3.13		
		27	16	12.2	11.3	3.45	11.4	10.9	3.69	10.8	10.6	3.93	9.8	9.8	3.93	7.5	7.5	2.95		
			19	13.1	9.3	3.60	12.2	8.9	3.85	11.5	8.6	4.10	10.5	8.1	4.10	8.1	7.2	3.08		
			22	14.3	7.4	3.73	13.4	7.1	3.98	12.6	6.8	4.24	11.5	6.3	4.24	8.8	5.4	3.18		
		29	16	12.4	12.4	3.46	11.6	11.6	3.70	10.9	10.9	3.94	9.9	9.9	3.94	7.6	7.6	2.96		
			19	13.3	10.5	3.61	12.4	10.1	3.86	11.7	9.8	4.11	10.6	9.3	4.11	8.2	8.2	3.08		
			22	14.5	8.5	3.74	13.6	8.3	3.99	12.8	7.9	4.25	11.6	7.5	4.25	9.0	6.4	3.19		
		32	16	12.6	12.6	3.47	11.8	11.8	3.71	11.1	11.1	3.95	10.1	10.1	3.95	7.8	7.8	2.96		
			19	13.5	12.3	3.62	12.6	11.9	3.87	11.8	11.8	4.12	10.8	10.8	4.12	8.3	8.3	3.09		
			22	14.7	10.4	3.74	13.8	10.0	4.00	13.0	9.6	4.26	11.8	9.2	4.26	9.1	8.2	3.20		
S-1014PT3E (S-1014PT3E(125)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.4	9.9	3.98	12.6	8.2	4.25	11.8	7.8	4.53	10.7	7.3	4.53	8.3	6.2	3.39		
			19	14.3	7.7	4.15	13.4	6.0	4.43	12.6	5.7	4.72	11.5	5.2	4.72	8.8	4.2	3.54		
			22	15.7	5.6	4.29	14.7	4.0	4.59	13.8	3.7	4.88	12.6	3.2	4.88	9.7	2.2	3.66		
		25	16	13.9	11.4	4.04	13.0	10.9	4.32	12.2	10.6	4.60	11.1	10.0	4.60	8.6	8.6	3.45		
			19	14.8	9.2	4.22	13.9	8.6	4.51	13.1	8.4	4.80	11.9	7.8	4.80	9.1	6.7	3.60		
			22	16.3	7.1	4.36	15.2	6.6	4.66	14.3	6.3	4.97	13.0	5.9	4.97	10.0	4.8	3.72		
		27	16	14.4	13.0	4.11	13.4	12.4	4.39	12.6	11.9	4.68	11.5	11.5	4.68	8.8	8.8	3.51		
			19	15.3	10.5	4.29	14.4	10.2	4.58	13.5	9.8	4.88	12.3	9.3	4.88	9.5	8.2	3.66		
			22	16.8	8.4	4.44	15.7	8.1	4.74	14.8	7.8	5.05	13.4	7.3	5.05	10.4	6.1	3.79		
		29	16	14.6	14.2	4.12	13.6	13.6	4.40	12.8	12.8	4.69	11.7	11.7	4.69	9.0	9.0	3.52		
			19	15.6	12.0	4.30	14.6	11.5	4.59	13.7	11.2	4.89	12.5	10.6	4.89	9.6	9.5	3.67		
			22	17.1	9.9	4.45	16.0	9.5	4.75	15.0	9.1	5.06	13.6	8.6	5.06	10.5	7.4	3.80		
		32	16	14.8	14.8	4.13	13.8	13.8	4.42	13.0	13.0	4.70	11.8	11.8	4.70	9.1	9.1	3.53		
			19	15.8	14.0	4.31	14.8	13.6	4.61	13.9	13.1	4.90	12.6	12.6	4.90	9.7	9.7	3.68		
			22	17.3	11.9	4.46	16.2	11.4	4.77	15.2	11.1	5.07	13.8	10.5	5.07	10.7	9.3	3.81		
S-1014PT3E (S-1014PT3E(140)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	10.7	4.48	13.9	8.9	4.79	13.1	8.4	5.10	11.9	7.9	5.10	9.2	6.7	3.83		
			19	15.9	8.3	4.67	14.9	6.6	5.00	14.0	6.2	5.32	12.7	5.7	5.32	9.8	4.6	3.99		
			22	17.5	6.2	4.84	16.3	4.5	5.17	15.4	4.1	5.50	14.0	3.6	5.50	10.7	2.5	4.13		
		25	16	15.4	12.2	4.56	14.4	11.7	4.87	13.6	11.3	5.19	12.3	10.8	5.19	9.5	9.5	3.89		
			19	16.5	9.9	4.75	15.4	9.4	5.08	14.5	9.0	5.41	13.2	8.4	5.41	10.2	7.2	4.06		
			22	18.1	7.7	4.92	16.9	7.3	5.26	15.9	6.9	5.60	14.4	6.4	5.60	11.1	5.2	4.20		
		27	16	16.0	13.9	4.63	14.9	13.3	4.95	14.0	12.8	5.27	12.8	12.2	5.27	9.8	9.8	3.95		
			19	17.0	11.4	4.83	15.9	11.0	5.17	15.0	10.5	5.50	13.6	10.0	5.50	10.5	8.7	4.13		
			22	18.7	9.3	5.00	17.5	8.8	5.34	16.4	8.4	5.69	14.9	7.9	5.69	11.5	6.6	4.27		
		29	16	16.2	15.3	4.64	15.2	14.8	4.96	14.3	14.2	5.29	13.0	13.0	5.29	10.0	10.0	3.96		
			19	17.3	12.9	4.84	16.2	12.3	5.18	15.2	11.9	5.51	13.8	11.4	5.51	10.7	9.9	4.14		
			22	19.0	10.7	5.01	17.7	10.2	5.36	16.7	9.7	5.70	15.2	9.2	5.70	11.7	7.9	4.28		
		32	16	16.4	16.4	4.65	15.4	15.4	4.98	14.5	14.5	5.30	13.1	13.1	5.30	10.1	10.1	3.97		
			19	17.6	15.0	4.86	16.4	14.4	5.19	15.4	14.0	5.53	14.0	13.4	5.53	10.8	10.8	4.15		
			22	19.2	12.7	5.02	18.0	12.2	5.37	16.9	11.8	5.72	15.4	11.2	5.72	11.8	9.9	4.29		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			43°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PT3E×2 (S-3650PT3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.4	8.6	3.34	10.7	7.1	3.57	10.1	6.7	3.80	9.1	6.4	3.80	7.0	5.5	2.85		
			19	12.2	6.6	3.48	11.4	5.2	3.73	10.7	4.9	3.97	9.8	4.5	3.97	7.5	3.6	2.97		
			22	13.4	4.8	3.60	12.5	3.3	3.85	11.8	3.1	4.10	10.7	2.7	4.10	8.2	1.9	3.08		
		25	16	11.8	10.1	3.40	11.1	9.5	3.63	10.4	9.3	3.87	9.5	8.8	3.87	7.3	7.3	2.90		
			19	12.6	7.9	3.54	11.8	7.6	3.79	11.1	7.4	4.03	10.1	6.8	4.03	7.8	5.9	3.02		
			22	13.9	6.1	3.67	13.0	5.8	3.92	12.2	5.5	4.17	11.1	5.1	4.17	8.5	4.2	3.13		
		27	16	12.2	11.3	3.45	11.4	10.9	3.69	10.8	10.6	3.93	9.8	9.8	3.93	7.5	7.5	2.95		
			19	13.1	9.3	3.60	12.2	8.9	3.85	11.5	8.6	4.10	10.5	8.1	4.10	8.1	7.2	3.08		
			22	14.3	7.4	3.73	13.4	7.1	3.98	12.6	6.8	4.24	11.5	6.3	4.24	8.8	5.4	3.18		
		29	16	12.4	12.4	3.46	11.6	11.6	3.70	10.9	10.9	3.94	9.9	9.9	3.94	7.6	7.6	2.96		
			19	13.3	10.5	3.61	12.4	10.1	3.86	11.7	9.8	4.11	10.6	9.3	4.11	8.2	8.2	3.08		
			22	14.5	8.5	3.74	13.6	8.3	3.99	12.8	7.9	4.25	11.6	7.5	4.25	9.0	6.4	3.19		
		32	16	12.6	12.6	3.47	11.8	11.8	3.71	11.1	11.1	3.95	10.1	10.1	3.95	7.8	7.8	2.96		
			19	13.5	12.3	3.62	12.6	11.9	3.87	11.8	11.8	4.12	10.8	10.8	4.12	8.3	8.3	3.09		
			22	14.7	10.4	3.74	13.8	10.0	4.00	13.0	9.6	4.26	11.8	9.2	4.26	9.1	8.2	3.20		
S-6071PT3E×2 (S-6071PT3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.4	10.5	3.98	12.6	8.6	4.25	11.8	8.3	4.53	10.7	7.8	4.53	8.3	6.7	3.39		
			19	14.3	7.9	4.15	13.4	6.1	4.43	12.6	5.8	4.72	11.5	5.3	4.72	8.8	4.3	3.54		
			22	15.7	5.6	4.29	14.7	3.7	4.59	13.8	3.4	4.88	12.6	3.0	4.88	9.7	2.0	3.66		
		25	16	13.9	12.2	4.04	13.0	11.8	4.32	12.2	11.4	4.60	11.1	10.9	4.60	8.6	8.6	3.45		
			19	14.8	9.6	4.22	13.9	9.2	4.51	13.1	8.9	4.80	11.9	8.4	4.80	9.1	7.2	3.60		
			22	16.3	7.2	4.36	15.2	6.8	4.66	14.3	6.5	4.97	13.0	6.1	4.97	10.0	5.0	3.72		
		27	16	14.4	13.9	4.11	13.4	13.4	4.39	12.6	12.6	4.68	11.5	11.5	4.68	8.8	8.8	3.51		
			19	15.3	11.3	4.29	14.4	10.9	4.58	13.5	10.5	4.88	12.3	10.1	4.88	9.5	9.0	3.66		
			22	16.8	8.9	4.44	15.7	8.5	4.74	14.8	8.1	5.05	13.4	7.6	5.05	10.4	6.6	3.79		
		29	16	14.6	14.6	4.12	13.6	13.6	4.40	12.8	12.8	4.69	11.7	11.7	4.69	9.0	9.0	3.52		
			19	15.6	12.9	4.30	14.6	12.5	4.59	13.7	12.1	4.89	12.5	11.6	4.89	9.6	9.6	3.67		
			22	17.1	10.5	4.45	16.0	10.1	4.75	15.0	9.7	5.06	13.6	9.2	5.06	10.5	8.1	3.80		
		32	16	14.8	14.8	4.13	13.8	13.8	4.42	13.0	13.0	4.70	11.8	11.8	4.70	9.1	9.1	3.53		
			19	15.8	15.2	4.31	14.8	14.8	4.61	13.9	13.9	4.90	12.6	12.6	4.90	9.7	9.7	3.68		
			22	17.3	12.8	4.46	16.2	12.3	4.77	15.2	12.0	5.07	13.8	11.4	5.07	10.7	10.3	3.81		
S-6071PT3E×2 (S-6071PT3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	14.9	11.4	4.48	13.9	9.4	4.79	13.1	9.0	5.10	11.9	8.5	5.10	9.2	7.2	3.83		
			19	15.9	8.7	4.67	14.9	6.7	5.00	14.0	6.4	5.32	12.7	5.8	5.32	9.8	4.7	3.99		
			22	17.5	6.2	4.84	16.3	4.3	5.17	15.4	3.9	5.50	14.0	3.4	5.50	10.7	2.3	4.13		
		25	16	15.4	13.2	4.56	14.4	12.7	4.87	13.6	12.2	5.19	12.3	11.8	5.19	9.5	9.5	3.89		
			19	16.5	10.3	4.75	15.4	10.0	5.08	14.5	9.7	5.41	13.2	9.1	5.41	10.2	7.8	4.06		
			22	18.1	7.8	4.92	16.9	7.6	5.26	15.9	7.1	5.60	14.4	6.6	5.60	11.1	5.5	4.20		
		27	16	16.0	14.9	4.63	14.9	14.4	4.95	14.0	14.0	5.27	12.8	12.8	5.27	9.8	9.8	3.95		
			19	17.0	12.3	4.83	15.9	11.8	5.17	15.0	11.3	5.50	13.6	10.7	5.50	10.5	9.6	4.13		
			22	18.7	9.8	5.00	17.5	9.2	5.34	16.4	8.9	5.69	14.9	8.3	5.69	11.5	7.1	4.27		
		29	16	16.2	16.2	4.64	15.2	15.2	4.96	14.3	14.3	5.29	13.0	13.0	5.29	10.0	10.0	3.96		
			19	17.3	14.0	4.84	16.2	13.5	5.18	15.2	13.1	5.51	13.8	12.5	5.51	10.7	10.7	4.14		
			22	19.0	11.4	5.01	17.7	10.8	5.36	16.7	10.6	5.70	15.2	9.8	5.70	11.7	8.7	4.28		
		32	16	16.4	16.4	4.65	15.4	15.4	4.98	14.5	14.5	5.30	13.1	13.1	5.30	10.1	10.1	3.97		
			19	17.6	16.5	4.86	16.4	15.9	5.19	15.4	15.4	5.53	14.0	14.0	5.53	10.8	10.8	4.15		
			22	19.2	13.8	5.02	18.0	13.4	5.37	16.9	13.0	5.72	15.4	12.3	5.72	11.8	11.1	4.29		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			46°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PT3E (S-3650PT3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	23	16	3.6	3.1	0.562	3.4	2.5	0.633	3.2	2.3	0.711	2.9	2.3	0.825	2.5	2.0	0.800		
			19	4.0	2.2	0.569	3.8	1.7	0.642	3.5	1.5	0.720	3.2	1.4	0.835	2.7	1.2	0.810		
			22	4.7	1.5	0.574	4.4	0.9	0.648	4.1	0.9	0.726	3.8	0.7	0.843	3.2	0.5	0.817		
		25	16	3.6	3.6	0.562	3.4	3.4	0.633	3.2	3.2	0.711	2.9	2.9	0.825	2.5	2.5	0.800		
			19	4.0	2.7	0.569	3.8	2.7	0.642	3.5	2.5	0.720	3.2	2.4	0.835	2.7	2.2	0.810		
			22	4.7	2.0	0.574	4.4	1.9	0.648	4.1	1.9	0.726	3.8	1.7	0.843	3.2	1.5	0.817		
		27	16	3.6	3.6	0.562	3.4	3.4	0.633	3.2	3.2	0.711	2.9	2.9	0.825	2.5	2.5	0.800		
			19	4.0	3.2	0.569	3.8	3.2	0.642	3.5	3.0	0.720	3.2	2.9	0.835	2.7	2.7	0.810		
			22	4.7	2.5	0.574	4.4	2.4	0.648	4.1	2.4	0.726	3.8	2.2	0.843	3.2	2.0	0.817		
		29	16	3.6	3.6	0.562	3.4	3.4	0.633	3.2	3.2	0.711	2.9	2.9	0.825	2.5	2.5	0.800		
			19	4.0	3.7	0.569	3.8	3.7	0.642	3.5	3.5	0.720	3.2	3.2	0.835	2.7	2.7	0.810		
			22	4.7	3.0	0.574	4.4	2.9	0.648	4.1	2.9	0.726	3.8	2.7	0.843	3.2	2.5	0.817		
		32	16	3.6	3.6	0.562	3.4	3.4	0.633	3.2	3.2	0.711	2.9	2.9	0.825	2.5	2.5	0.800		
			19	4.0	4.0	0.569	3.8	3.8	0.642	3.5	3.5	0.720	3.2	3.2	0.835	2.7	2.7	0.810		
			22	4.7	3.8	0.574	4.4	3.7	0.648	4.1	3.7	0.726	3.8	3.5	0.843	3.2	3.2	0.817		
S-3650PT3E (S-3650PT3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	4.0	0.968	4.9	3.3	1.09	4.5	3.1	1.23	4.2	3.0	1.42	3.5	2.6	1.38		
			19	5.7	3.0	0.980	5.4	2.4	1.11	5.0	2.3	1.24	4.6	2.0	1.44	3.9	1.7	1.40		
			22	6.4	2.2	0.988	6.0	1.5	1.12	5.6	1.3	1.25	5.2	1.3	1.45	4.4	0.9	1.41		
		25	16	5.1	4.5	0.968	4.9	4.4	1.09	4.5	4.2	1.23	4.2	4.1	1.42	3.5	3.5	1.38		
			19	5.7	3.5	0.980	5.4	3.5	1.11	5.0	3.3	1.24	4.6	3.1	1.44	3.9	2.8	1.40		
			22	6.4	2.7	0.988	6.0	2.6	1.12	5.6	2.4	1.25	5.2	2.4	1.45	4.4	2.0	1.41		
		27	16	5.1	5.1	0.968	4.9	4.9	1.09	4.5	4.5	1.23	4.2	4.2	1.42	3.5	3.5	1.38		
			19	5.7	4.1	0.980	5.4	4.0	1.11	5.0	3.8	1.24	4.6	3.6	1.44	3.9	3.3	1.40		
			22	6.4	3.4	0.988	6.0	3.1	1.12	5.6	3.0	1.25	5.2	2.9	1.45	4.4	2.5	1.41		
		29	16	5.1	5.1	0.968	4.9	4.9	1.09	4.5	4.5	1.23	4.2	4.2	1.42	3.5	3.5	1.38		
			19	5.7	4.6	0.980	5.4	4.6	1.11	5.0	4.4	1.24	4.6	4.2	1.44	3.9	3.9	1.40		
			22	6.4	3.8	0.988	6.0	3.6	1.12	5.6	3.5	1.25	5.2	3.4	1.45	4.4	3.0	1.41		
		32	16	5.1	5.1	0.968	4.9	4.9	1.09	4.5	4.5	1.23	4.2	4.2	1.42	3.5	3.5	1.38		
			19	5.7	5.4	0.980	5.4	5.4	1.11	5.0	5.0	1.24	4.6	4.6	1.44	3.9	3.9	1.40		
			22	6.4	4.6	0.988	6.0	4.4	1.12	5.6	4.3	1.25	5.2	4.2	1.45	4.4	3.8	1.41		
S-6071PT3E (S-6071PT3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	23	16	6.2	4.7	1.23	5.9	4.0	1.38	5.4	3.7	1.55	5.0	3.5	1.80	4.5	3.3	2.02		
			19	6.8	3.7	1.24	6.5	2.7	1.40	6.0	2.6	1.57	5.5	2.4	1.82	5.0	2.2	2.04		
			22	7.6	2.5	1.25	7.2	1.7	1.41	6.7	1.5	1.58	6.2	1.3	1.84	5.6	1.1	2.06		
		25	16	6.2	5.4	1.23	5.9	5.4	1.38	5.4	5.1	1.55	5.0	5.0	1.80	4.5	4.5	2.02		
			19	6.8	4.4	1.24	6.5	4.2	1.40	6.0	4.0	1.57	5.5	3.8	1.82	5.0	3.6	2.04		
			22	7.6	3.2	1.25	7.2	3.1	1.41	6.7	2.9	1.58	6.2	2.7	1.84	5.6	2.5	2.06		
		27	16	6.2	6.2	1.23	5.9	5.9	1.38	5.4	5.4	1.55	5.0	5.0	1.80	4.5	4.5	2.02		
			19	6.8	5.1	1.24	6.5	4.9	1.40	6.0	4.7	1.57	5.5	4.5	1.82	5.0	4.3	2.04		
			22	7.6	3.9	1.25	7.2	3.7	1.41	6.7	3.6	1.58	6.2	3.5	1.84	5.6	3.2	2.06		
		29	16	6.2	6.2	1.23	5.9	5.9	1.38	5.4	5.4	1.55	5.0	5.0	1.80	4.5	4.5	2.02		
			19	6.8	5.8	1.24	6.5	5.6	1.40	6.0	5.4	1.57	5.5	5.2	1.82	5.0	5.0	2.04		
			22	7.6	4.6	1.25	7.2	4.5	1.41	6.7	4.4	1.58	6.2	4.2	1.84	5.6	3.9	2.06		
		32	16	6.2	6.2	1.23	5.9	5.9	1.38	5.4	5.4	1.55	5.0	5.0	1.80	4.5	4.5	2.02		
			19	6.8	6.8	1.24	6.5	6.5	1.40	6.0	6.0	1.57	5.5	5.5	1.82	5.0	5.0	2.04		
			22	7.6	5.7	1.25	7.2	5.6	1.41	6.7	5.4	1.58	6.2	5.2	1.84	5.6	4.9	2.06		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			48°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-6071PT3E (S-6071PT3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	6.2	2.66	8.1	5.2	2.89	7.9	5.0	3.11	7.1	4.7	2.88	2.8	2.8	1.06
			19	9.0	4.8	2.78	8.7	3.9	3.01	8.4	3.7	3.24	7.5	3.4	3.00	2.9	1.6	1.10
			22	9.9	3.5	2.88	9.5	2.6	3.11	9.2	2.5	3.35	8.3	2.2	3.11	3.2	0.5	1.14
		25	16	8.7	7.1	2.71	8.4	7.0	2.93	8.1	6.8	3.16	7.3	6.4	2.93	2.9	2.8	1.07
			19	9.3	5.7	2.83	9.0	5.6	3.06	8.7	5.5	3.30	7.8	5.0	3.05	3.0	3.0	1.12
			22	10.2	4.4	2.92	9.9	4.3	3.17	9.5	4.2	3.41	8.6	3.8	3.16	3.3	1.9	1.16
		27	16	9.0	8.0	2.75	8.7	7.9	2.98	8.4	7.8	3.21	7.6	7.3	2.98	2.9	2.9	1.09
			19	9.6	6.7	2.87	9.3	6.5	3.11	9.0	6.4	3.35	8.1	6.0	3.11	3.2	3.2	1.14
			22	10.6	5.4	2.97	10.2	5.2	3.22	9.9	5.1	3.47	8.9	4.7	3.21	3.5	2.7	1.18
		29	16	9.2	8.9	2.76	8.9	8.8	2.99	8.6	8.6	3.22	7.7	7.7	2.98	3.0	3.0	1.09
			19	9.8	7.4	2.88	9.5	7.3	3.12	9.1	7.1	3.36	8.2	6.8	3.11	3.2	3.2	1.14
			22	10.7	6.1	2.98	10.4	6.0	3.23	10.0	5.8	3.47	9.0	5.4	3.22	3.5	3.5	1.18
		32	16	9.3	9.3	2.77	9.0	9.0	3.00	8.7	8.7	3.23	7.8	7.8	2.99	3.0	3.0	1.10
			19	9.9	8.8	2.89	9.6	8.5	3.13	9.3	8.4	3.37	8.3	8.0	3.12	3.2	3.2	1.14
			22	10.9	7.4	2.99	10.5	7.3	3.24	10.2	7.1	3.48	9.1	6.7	3.23	3.6	3.6	1.18
S-1014PT3E (S-1014PT3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	8.9	3.20	11.4	7.5	3.36	10.9	7.1	3.52	9.7	6.6	3.21	4.4	4.4	1.67
			19	12.7	6.7	3.34	12.2	5.4	3.51	11.7	5.2	3.68	10.4	4.8	3.34	4.7	2.6	1.74
			22	13.9	4.9	3.46	13.3	3.6	3.63	12.8	3.4	3.80	11.4	3.0	3.46	5.2	0.8	1.80
		25	16	12.3	10.2	3.26	11.8	9.8	3.42	11.3	9.6	3.58	10.1	9.1	3.26	4.6	4.6	1.70
			19	13.1	8.1	3.40	12.6	7.9	3.57	12.1	7.6	3.74	10.8	7.2	3.40	4.9	4.9	1.77
			22	14.4	6.2	3.51	13.8	6.1	3.69	13.2	5.8	3.87	11.8	5.3	3.52	5.4	3.0	1.83
		27	16	12.7	11.4	3.31	12.2	11.2	3.48	11.7	11.0	3.64	10.4	10.3	3.31	4.7	4.7	1.73
			19	13.6	9.4	3.45	13.0	9.1	3.63	12.5	8.9	3.80	11.1	8.4	3.46	5.1	5.1	1.80
			22	14.9	7.5	3.57	14.3	7.3	3.75	13.7	7.2	3.93	12.2	6.5	3.58	5.5	4.3	1.86
		29	16	12.9	12.7	3.32	12.4	12.4	3.49	11.9	11.9	3.65	10.6	10.6	3.32	4.8	4.8	1.73
			19	13.8	10.6	3.46	13.2	10.4	3.64	12.7	10.1	3.81	11.3	9.6	3.46	5.1	5.1	1.81
			22	15.1	8.8	3.58	14.5	8.5	3.76	13.9	8.3	3.94	12.4	7.7	3.58	5.6	5.4	1.87
		32	16	13.1	13.1	3.33	12.6	12.6	3.49	12.1	12.1	3.66	10.7	10.7	3.33	4.9	4.9	1.74
			19	14.0	12.4	3.47	13.4	12.2	3.64	12.9	11.9	3.82	11.5	11.4	3.47	5.2	5.2	1.81
			22	15.3	10.5	3.59	14.7	10.3	3.77	14.1	10.2	3.95	12.6	9.5	3.59	5.7	5.7	1.87
S-1014PT3E (S-1014PT3E(125)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	9.8	3.92	12.8	8.3	4.12	12.2	8.2	4.31	10.9	7.4	3.92	4.5	4.5	1.66
			19	14.2	7.6	4.09	13.6	6.1	4.29	13.1	5.9	4.50	11.6	5.3	4.09	4.8	2.7	1.73
			22	15.5	5.6	4.23	14.9	4.1	4.44	14.3	3.9	4.65	12.8	3.3	4.23	5.3	0.7	1.79
		25	16	13.7	11.3	3.99	13.2	11.0	4.19	12.7	10.7	4.39	11.3	10.1	3.99	4.7	4.7	1.69
			19	14.7	9.1	4.16	14.1	8.7	4.37	13.5	8.6	4.57	12.1	8.0	4.16	5.0	5.0	1.76
			22	16.1	7.0	4.30	15.5	6.7	4.52	14.8	6.5	4.73	13.2	5.9	4.30	5.5	3.3	1.82
		27	16	14.2	12.9	4.05	13.7	12.5	4.25	13.1	12.3	4.46	11.7	11.6	4.05	4.8	4.8	1.72
			19	15.2	10.6	4.23	14.6	10.2	4.44	14.0	9.9	4.65	12.5	9.4	4.23	5.2	5.2	1.79
			22	16.6	8.5	4.37	16.0	8.1	4.59	15.3	8.0	4.81	13.7	7.4	4.38	5.7	4.6	1.85
		29	16	14.4	14.3	4.06	13.9	13.9	4.27	13.3	13.3	4.47	11.8	11.8	4.06	4.9	4.9	1.72
			19	15.4	12.0	4.24	14.8	11.7	4.45	14.2	11.4	4.66	12.7	10.7	4.24	5.3	5.3	1.79
			22	16.9	9.8	4.38	16.2	9.6	4.60	15.6	9.3	4.82	13.9	8.7	4.39	5.8	5.8	1.86
		32	16	14.6	14.6	4.07	14.1	14.1	4.28	13.5	13.5	4.48	12.0	12.0	4.07	5.0	5.0	1.72
			19	15.6	14.0	4.25	15.0	13.7	4.46	14.4	13.4	4.67	12.8	12.7	4.25	5.3	5.3	1.80
			22	17.1	11.8	4.39	16.5	11.6	4.61	15.8	11.3	4.83	14.1	10.6	4.40	5.8	5.8	1.86
S-1014PT3E (S-1014PT3E(140)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	10.8	5.06	14.6	9.2	5.31	14.0	8.9	5.56	12.5	8.3	5.06	4.6	4.6	1.67
			19	16.2	8.5	5.28	15.6	6.9	5.54	14.9	6.6	5.80	13.3	5.9	5.28	4.9	2.6	1.74
			22	17.8	6.3	5.46	17.1	4.8	5.73	16.4	4.5	6.00	14.6	3.9	5.46	5.4	0.7	1.80
		25	16	15.7	12.4	5.14	15.1	12.1	5.40	14.5	11.8	5.66	12.9	11.0	5.15	4.8	4.8	1.70
			19	16.8	10.1	5.36	16.1	9.8	5.63	15.5	9.5	5.90	13.8	8.7	5.37	5.1	5.1	1.77
			22	18.4	7.9	5.55	17.7	7.6	5.83	17.0	7.3	6.11	15.1	6.6	5.55	5.6	3.2	1.83
		27	16	16.2	14.1	5.23	15.6	13.8	5.49	15.0	13.4	5.75	13.3	12.6	5.23	4.9	4.9	1.73
			19	17.4	11.6	5.45	16.7	11.3	5.73	16.0	11.0	6.00	14.3	10.2	5.46	5.3	5.3	1.80
			22	19.0	9.5	5.64	18.3	9.1	5.92	17.5	8.8	6.21	15.6	8.1	5.65	5.8	4.7	1.86
		29	16	16.5	15.5	5.24	15.8	15.3	5.50	15.2	14.9	5.77	13.5	13.5	5.24	5.0	5.0	1.73
			19	17.6	13.1	5.47	16.9	12.8	5.74	16.2	12.4	6.01	14.5	11.6	5.47	5.4	5.4	1.80
			22	19.3	10.9	5.66	18.5	10.5	5.94	17.8	10.2	6.22	15.8	9.4	5.66	5.9	5.9	1.87
		32	16	16.7	16.7	5.25	16.1	16.1	5.52	15.4	15.4	5.78	13.7	13.7	5.26	5.1	5.1	1.73
			19	17.9	15.2	5.48	17.2	14.9	5.76	16.5	14.6	6.03	14.7	13.7	5.48	5.4	5.4	1.81
			22	19.6	12.9	5.67	18.8	12.7	5.95	18.1	12.3	6.24	16.1	11.5	5.67	6.0	6.0	1.87

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PT3E×2 (S-3650PT3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	6.9	2.66	8.1	5.7	2.89	7.9	5.6	3.11	7.1	5.2	2.88	2.8	2.8	1.06		
			19	9.0	5.1	2.78	8.7	4.0	3.01	8.4	3.7	3.24	7.5	3.5	3.00	2.9	1.7	1.10		
			22	9.9	3.5	2.88	9.5	2.3	3.11	9.2	2.2	3.35	8.3	1.9	3.11	3.2	0.3	1.14		
		25	16	8.7	8.1	2.71	8.4	7.9	2.93	8.1	7.8	3.16	7.3	7.3	2.93	2.9	2.8	1.07		
			19	9.3	6.3	2.83	9.0	6.2	3.06	8.7	6.0	3.30	7.8	5.6	3.05	3.0	3.0	1.12		
			22	10.2	4.6	2.92	9.9	4.5	3.17	9.5	4.4	3.41	8.6	4.0	3.16	3.3	2.2	1.16		
		27	16	9.0	9.0	2.75	8.7	8.7	2.98	8.4	8.4	3.21	7.6	7.6	2.98	2.9	2.9	1.09		
			19	9.6	7.4	2.87	9.3	7.3	3.11	9.0	7.2	3.35	8.1	6.8	3.11	3.2	3.2	1.14		
			22	10.6	5.8	2.97	10.2	5.6	3.22	9.9	5.5	3.47	8.9	5.2	3.21	3.5	3.3	1.18		
		29	16	9.2	9.2	2.76	8.9	8.9	2.99	8.6	8.6	3.22	7.7	7.7	2.98	3.0	3.0	1.09		
			19	9.8	8.5	2.88	9.5	8.4	3.12	9.1	8.3	3.36	8.2	7.9	3.11	3.2	3.2	1.14		
			22	10.7	6.9	2.98	10.4	6.7	3.23	10.0	6.6	3.47	9.0	6.1	3.22	3.5	3.5	1.18		
		32	16	9.3	9.3	2.77	9.0	9.0	3.00	8.7	8.7	3.23	7.8	7.8	2.99	3.0	3.0	1.10		
			19	9.9	9.9	2.89	9.6	9.6	3.13	9.3	9.3	3.37	8.3	8.3	3.12	3.2	3.2	1.14		
			22	10.9	8.5	2.99	10.5	8.3	3.24	10.2	8.2	3.48	9.1	7.8	3.23	3.6	3.6	1.18		
S-3650PT3E×2 (S-3650PT3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	8.9	3.20	11.4	7.5	3.36	10.9	7.1	3.52	9.7	6.6	3.21	4.4	4.4	1.67		
			19	12.7	6.7	3.34	12.2	5.4	3.51	11.7	5.2	3.68	10.4	4.8	3.34	4.7	2.6	1.74		
			22	13.9	4.9	3.46	13.3	3.6	3.63	12.8	3.4	3.80	11.4	2.9	3.46	5.2	0.8	1.80		
		25	16	12.3	10.1	3.26	11.8	9.9	3.42	11.3	9.6	3.58	10.1	9.1	3.26	4.6	4.6	1.70		
			19	13.1	8.1	3.40	12.6	7.9	3.57	12.1	7.6	3.74	10.8	7.1	3.40	4.9	4.9	1.77		
			22	14.4	6.2	3.51	13.8	6.0	3.69	13.2	5.8	3.87	11.8	5.3	3.52	5.4	3.0	1.83		
		27	16	12.7	11.5	3.31	12.2	11.2	3.48	11.7	11.0	3.64	10.4	10.4	3.31	4.7	4.7	1.73		
			19	13.6	9.4	3.45	13.0	9.2	3.63	12.5	8.9	3.80	11.1	8.4	3.46	5.1	5.1	1.80		
			22	14.9	7.6	3.57	14.3	7.3	3.75	13.7	7.1	3.93	12.2	6.5	3.58	5.5	4.3	1.86		
		29	16	12.9	12.7	3.32	12.4	12.4	3.49	11.9	11.9	3.65	10.6	10.6	3.32	4.8	4.8	1.73		
			19	13.8	10.7	3.46	13.2	10.4	3.64	12.7	10.1	3.81	11.3	9.6	3.46	5.1	5.1	1.81		
			22	15.1	8.8	3.58	14.5	8.5	3.76	13.9	8.3	3.94	12.4	7.7	3.58	5.6	5.4	1.87		
		32	16	13.1	13.1	3.33	12.6	12.6	3.49	12.1	12.1	3.66	10.7	10.7	3.33	4.9	4.9	1.74		
			19	14.0	12.5	3.47	13.4	12.2	3.64	12.9	11.9	3.82	11.5	11.3	3.47	5.2	5.2	1.81		
			22	15.3	10.5	3.59	14.7	10.3	3.77	14.1	10.1	3.95	12.6	9.5	3.59	5.7	5.7	1.87		
S-6071PT3E×2 (S-6071PT3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	10.4	3.92	12.8	8.6	4.12	12.2	8.4	4.31	10.9	7.9	3.92	4.5	4.5	1.66		
			19	14.2	7.9	4.09	13.6	6.2	4.29	13.1	5.9	4.50	11.6	5.4	4.09	4.8	2.8	1.73		
			22	15.5	5.5	4.23	14.9	3.8	4.44	14.3	3.6	4.65	12.8	2.9	4.23	5.3	0.5	1.79		
		25	16	13.7	12.1	3.99	13.2	11.9	4.19	12.7	11.5	4.39	11.3	11.0	3.99	4.7	4.7	1.69		
			19	14.7	9.5	4.16	14.1	9.3	4.37	13.5	9.1	4.57	12.1	8.5	4.16	5.0	5.0	1.76		
			22	16.1	7.1	4.30	15.5	6.9	4.52	14.8	6.7	4.73	13.2	6.1	4.30	5.5	3.5	1.82		
		27	16	14.2	13.7	4.05	13.7	13.6	4.25	13.1	13.1	4.46	11.7	11.7	4.05	4.8	4.8	1.72		
			19	15.2	11.2	4.23	14.6	11.0	4.44	14.0	10.7	4.65	12.5	10.1	4.23	5.2	5.2	1.79		
			22	16.6	8.7	4.37	16.0	8.6	4.59	15.3	8.4	4.81	13.7	7.8	4.38	5.7	5.0	1.85		
		29	16	14.4	14.4	4.06	13.9	13.9	4.27	13.3	13.3	4.47	11.8	11.8	4.06	4.9	4.9	1.72		
			19	15.4	12.8	4.24	14.8	12.6	4.45	14.2	12.3	4.66	12.7	11.5	4.24	5.3	5.3	1.79		
			22	16.9	10.3	4.38	16.2	10.2	4.60	15.6	9.9	4.82	13.9	9.3	4.39	5.8	5.8	1.86		
		32	16	14.6	14.6	4.07	14.1	14.1	4.28	13.5	13.5	4.48	12.0	12.0	4.07	5.0	5.0	1.72		
			19	15.6	15.2	4.25	15.0	14.9	4.46	14.4	14.4	4.67	12.8	12.8	4.25	5.3	5.3	1.80		
			22	17.1	12.7	4.39	16.5	12.5	4.61	15.8	12.1	4.83	14.1	11.5	4.40	5.8	5.8	1.86		
S-6071PT3E×2 (S-6071PT3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	11.5	5.06	14.6	9.6	5.31	14.0	9.4	5.56	12.5	8.7	5.06	4.6	4.6	1.67		
			19	16.2	8.8	5.28	15.6	7.0	5.54	14.9	6.7	5.80	13.3	6.0	5.28	4.9	2.8	1.74		
			22	17.8	6.3	5.46	17.1	4.5	5.73	16.4	4.3	6.00	14.6	3.6	5.46	5.4	0.5	1.80		
		25	16	15.7	13.3	5.14	15.1	13.0	5.40	14.5	12.7	5.66	12.9	12.0	5.15	4.8	4.8	1.70		
			19	16.8	10.6	5.36	16.1	10.3	5.63	15.5	10.0	5.90	13.8	9.3	5.37	5.1	5.1	1.77		
			22	18.4	8.1	5.55	17.7	7.8	5.83	17.0	7.6	6.11	15.1	6.9	5.55	5.6	3.5	1.83		
		27	16	16.2	15.2	5.23	15.6	14.9	5.49	15.0	14.5	5.75	13.3	13.3	5.23	4.9	4.9	1.73		
			19	17.4	12.4	5.45	16.7	12.1	5.73	16.0	11.8	6.00	14.3	11.1	5.46	5.3	5.3	1.80		
			22	19.0	9.9	5.64	18.3	9.6	5.92	17.5	9.3	6.21	15.6	8.6	5.65	5.8	5.2	1.86		
		29	16	16.5	16.5	5.24	15.8	15.8	5.50	15.2	15.2	5.77	13.5	13.5	5.24	5.0	5.0	1.73		
			19	17.6	14.1	5.47	16.9	13.8	5.74	16.2	13.5	6.01	14.5	12.7	5.47	5.4	5.4	1.80		
			22	19.3	11.5	5.66	18.5	11.2	5.94	17.8	11.0	6.22	15.8	10.2	5.66	5.9	5.9	1.87		
		32	16	16.7	16.7	5.25	16.1	16.1	5.52	15.4	15.4	5.78	13.7	13.7	5.26	5.1	5.1	1.73		
			19	17.9	16.5	5.48	17.2	16.3	5.76	16.5	15.9	6.03	14.7	14.7	5.48	5.4	5.4	1.81		
			22	19.6	13.9	5.67	18.8	13.6	5.95	18.1	13.4	6.24	16.1	12.6	5.67	6.0	6.0	1.87		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-4. Ceiling Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-3650PT3E×3 (S-3650PT3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	10.0	3.20	11.4	8.2	3.36	10.9	8.0	3.52	9.7	7.5	3.21	4.4	4.4	1.67		
			19	12.7	7.3	3.34	12.2	5.6	3.51	11.7	5.4	3.68	10.4	5.0	3.34	4.7	2.9	1.74		
			22	13.9	4.9	3.46	13.3	3.2	3.63	12.8	3.0	3.80	11.4	2.5	3.46	5.2	0.4	1.80		
		25	16	12.3	11.7	3.26	11.8	11.5	3.42	11.3	11.3	3.58	10.1	10.1	3.26	4.6	4.6	1.70		
			19	13.1	9.1	3.40	12.6	8.9	3.57	12.1	8.7	3.74	10.8	8.2	3.40	4.9	4.9	1.77		
			22	14.4	6.6	3.51	13.8	6.4	3.69	13.2	6.2	3.87	11.8	5.7	3.52	5.4	3.4	1.83		
		27	16	12.7	12.7	3.31	12.2	12.2	3.48	11.7	11.7	3.64	10.4	10.4	3.31	4.7	4.7	1.73		
			19	13.6	10.8	3.45	13.0	10.6	3.63	12.5	10.4	3.80	11.1	9.8	3.46	5.1	5.1	1.80		
			22	14.9	8.3	3.57	14.3	8.1	3.75	13.7	7.9	3.93	12.2	7.4	3.58	5.5	5.2	1.86		
		29	16	12.9	12.9	3.32	12.4	12.4	3.49	11.9	11.9	3.65	10.6	10.6	3.32	4.8	4.8	1.73		
			19	13.8	12.4	3.46	13.2	12.2	3.64	12.7	12.0	3.81	11.3	11.3	3.46	5.1	5.1	1.81		
			22	15.1	9.9	3.58	14.5	9.7	3.76	13.9	9.5	3.94	12.4	8.9	3.58	5.6	5.6	1.87		
		32	16	13.1	13.1	3.33	12.6	12.6	3.49	12.1	12.1	3.66	10.7	10.7	3.33	4.9	4.9	1.74		
			19	14.0	14.0	3.47	13.4	13.4	3.64	12.9	12.9	3.82	11.5	11.5	3.47	5.2	5.2	1.81		
			22	15.3	12.3	3.59	14.7	12.1	3.77	14.1	11.8	3.95	12.6	11.3	3.59	5.7	5.7	1.87		
S-3650PT3E×3 (S-3650PT3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	11.0	3.92	12.8	9.1	4.12	12.2	8.8	4.31	10.9	8.3	3.92	4.5	4.5	1.66		
			19	14.2	8.1	4.09	13.6	6.3	4.29	13.1	6.1	4.50	11.6	5.5	4.09	4.8	3.0	1.73		
			22	15.5	5.5	4.23	14.9	3.6	4.44	14.3	3.4	4.65	12.8	2.9	4.23	5.3	0.3	1.79		
		25	16	13.7	12.9	3.99	13.2	12.6	4.19	12.7	12.4	4.39	11.3	11.3	3.99	4.7	4.7	1.69		
			19	14.7	10.0	4.16	14.1	9.8	4.37	13.5	9.5	4.57	12.1	8.9	4.16	5.0	5.0	1.76		
			22	16.1	7.3	4.30	15.5	7.1	4.52	14.8	6.8	4.73	13.2	6.3	4.30	5.5	3.8	1.82		
		27	16	14.2	14.2	4.05	13.7	13.7	4.25	13.1	13.1	4.46	11.7	11.7	4.05	4.8	4.8	1.72		
			19	15.2	11.9	4.23	14.6	11.6	4.44	14.0	11.4	4.65	12.5	10.8	4.23	5.2	5.2	1.79		
			22	16.6	9.1	4.37	16.0	8.9	4.59	15.3	8.7	4.81	13.7	8.1	4.38	5.7	5.4	1.85		
		29	16	14.4	14.4	4.06	13.9	13.9	4.27	13.3	13.3	4.47	11.8	11.8	4.06	4.9	4.9	1.72		
			19	15.4	13.6	4.24	14.8	13.4	4.45	14.2	13.1	4.66	12.7	12.5	4.24	5.3	5.3	1.79		
			22	16.9	10.9	4.38	16.2	10.6	4.60	15.6	10.4	4.82	13.9	9.8	4.39	5.8	5.8	1.86		
		32	16	14.6	14.6	4.07	14.1	14.1	4.28	13.5	13.5	4.48	12.0	12.0	4.07	5.0	5.0	1.72		
			19	15.6	15.6	4.25	15.0	15.0	4.46	14.4	14.4	4.67	12.8	12.8	4.25	5.3	5.3	1.80		
			22	17.1	13.5	4.39	16.5	13.2	4.61	15.8	12.9	4.83	14.1	12.3	4.40	5.8	5.8	1.86		
S-3650PT3E×3 (S-3650PT3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	12.0	5.06	14.6	10.0	5.31	14.0	9.7	5.56	12.5	9.0	5.06	4.6	4.6	1.67		
			19	16.2	9.1	5.28	15.6	7.1	5.54	14.9	6.8	5.80	13.3	6.2	5.28	4.9	2.9	1.74		
			22	17.8	6.4	5.46	17.1	4.4	5.73	16.4	4.2	6.00	14.6	3.6	5.46	5.4	0.4	1.80		
		25	16	15.7	13.9	5.14	15.1	13.6	5.40	14.5	13.4	5.66	12.9	12.6	5.15	4.8	4.8	1.70		
			19	16.8	11.0	5.36	16.1	10.7	5.63	15.5	10.4	5.90	13.8	9.8	5.37	5.1	5.1	1.77		
			22	18.4	8.3	5.55	17.7	8.0	5.83	17.0	7.7	6.11	15.1	7.1	5.55	5.6	3.8	1.83		
		27	16	16.2	15.9	5.23	15.6	15.6	5.49	15.0	15.0	5.75	13.3	13.3	5.23	4.9	4.9	1.73		
			19	17.4	12.9	5.45	16.7	12.6	5.73	16.0	12.3	6.00	14.3	11.5	5.46	5.3	5.3	1.80		
			22	19.0	10.2	5.64	18.3	9.9	5.92	17.5	9.6	6.21	15.6	8.9	5.65	5.8	5.6	1.86		
		29	16	16.5	16.5	5.24	15.8	15.8	5.50	15.2	15.2	5.77	13.5	13.5	5.24	5.0	5.0	1.73		
			19	17.6	14.7	5.47	16.9	14.4	5.74	16.2	14.1	6.01	14.5	13.4	5.47	5.4	5.4	1.80		
			22	19.3	12.0	5.66	18.5	11.7	5.94	17.8	11.4	6.22	15.8	10.7	5.66	5.9	5.9	1.87		
		32	16	16.7	16.7	5.25	16.1	16.1	5.52	15.4	15.4	5.78	13.7	13.7	5.26	5.1	5.1	1.73		
			19	17.9	17.4	5.48	17.2	17.0	5.76	16.5	16.5	6.03	14.7	14.7	5.48	5.4	5.4	1.81		
			22	19.6	14.6	5.67	18.8	14.3	5.95	18.1	14.0	6.24	16.1	13.2	5.67	6.0	6.0	1.87		
S-3650PT3E×4 (S-3650PT3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	12.2	3.92	12.8	9.8	4.12	12.2	9.6	4.31	10.9	9.1	3.92	4.5	4.5	1.66		
			19	14.2	8.8	4.09	13.6	6.5	4.29	13.1	6.3	4.50	11.6	5.8	4.09	4.8	3.3	1.73		
			22	15.5	5.5	4.23	14.9	3.3	4.44	14.3	3.1	4.65	12.8	2.6	4.23	5.3	0.0	1.79		
		25	16	13.7	13.7	3.99	13.2	13.2	4.19	12.7	12.7	4.39	11.3	11.3	3.99	4.7	4.7	1.69		
			19	14.7	11.0	4.16	14.1	10.8	4.37	13.5	10.6	4.57	12.1	10.0	4.16	5.0	5.0	1.76		
			22	16.1	7.7	4.30	15.5	7.5	4.52	14.8	7.3	4.73	13.2	6.8	4.30	5.5	4.3	1.82		
		27	16	14.2	14.2	4.05	13.7	13.7	4.25	13.1	13.1	4.46	11.7	11.7	4.05	4.8	4.8	1.72		
			19	15.2	13.3	4.23	14.6	13.1	4.44	14.0	12.8	4.65	12.5	12.2	4.23	5.2	5.2	1.79		
			22	16.6	10.0	4.37	16.0	9.7	4.59	15.3	9.5	4.81	13.7	8.9	4.38	5.7	5.7	1.85		
		29	16	14.4	14.4	4.06	13.9	13.9	4.27	13.3	13.3	4.47	11.8	11.8	4.06	4.9	4.9	1.72		
			19	15.4	15.4	4.24	14.8	14.8	4.45	14.2	14.2	4.66	12.7	12.7	4.24	5.3	5.3	1.79		
			22	16.9	12.1	4.38	16.2	11.8	4.60	15.6	11.6	4.82	13.9	11.0	4.39	5.8	5.8	1.86		
		32	16	14.6	14.6	4.07	14.1	14.1	4.28	13.5	13.5	4.48	12.0	12.0	4.07	5.0	5.0	1.72		
			19	15.6	15.6	4.25	15.0	15.0	4.46	14.4	14.4	4.67	12.8	12.8	4.25	5.3	5.3	1.80		
			22	17.1	15.2	4.39	16.5	15.0	4.61	15.8	14.7	4.83	14.1	14.1	4.40	5.8	5.8	1.86		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-5. 4-Way Cassette 60 × 60 Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			43°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-25PY3E U-25PZ3E5	220V-230V-240V 50Hz 1phase	23	16	2.5	2.0	0.420	2.4	1.6	0.493	2.2	1.6	0.563	2.1	1.5	0.641	2.0	1.5	0.685
			19	2.8	1.5	0.418	2.7	1.1	0.491	2.5	1.1	0.560	2.4	1.0	0.637	2.3	1.0	0.681
			22	3.1	1.0	0.412	2.9	0.6	0.484	2.8	0.6	0.552	2.6	0.5	0.628	2.5	0.5	0.672
		25	16	2.5	2.4	0.420	2.4	2.3	0.493	2.2	2.2	0.563	2.1	2.1	0.641	2.0	2.0	0.685
			19	2.8	1.8	0.418	2.7	1.8	0.491	2.5	1.7	0.560	2.4	1.7	0.637	2.3	1.6	0.681
			22	3.1	1.3	0.412	2.9	1.3	0.484	2.8	1.2	0.552	2.6	1.2	0.628	2.5	1.1	0.672
		27	16	2.5	2.5	0.420	2.4	2.4	0.493	2.2	2.2	0.563	2.1	2.1	0.641	2.0	2.0	0.685
			19	2.8	2.1	0.418	2.7	2.1	0.491	2.5	2.0	0.560	2.4	2.0	0.637	2.3	1.9	0.681
			22	3.1	1.6	0.412	2.9	1.6	0.484	2.8	1.5	0.552	2.6	1.5	0.628	2.5	1.5	0.672
		29	16	2.5	2.5	0.420	2.4	2.4	0.493	2.2	2.2	0.563	2.1	2.1	0.641	2.0	2.0	0.685
			19	2.8	2.5	0.418	2.7	2.4	0.491	2.5	2.3	0.560	2.4	2.3	0.637	2.3	2.3	0.681
			22	3.1	2.0	0.412	2.9	1.9	0.484	2.8	1.8	0.552	2.6	1.8	0.628	2.5	1.8	0.672
		32	16	2.5	2.5	0.420	2.4	2.4	0.493	2.2	2.2	0.563	2.1	2.1	0.641	2.0	2.0	0.685
			19	2.8	2.8	0.418	2.7	2.7	0.491	2.5	2.5	0.560	2.4	2.4	0.637	2.3	2.3	0.681
			22	3.1	2.4	0.412	2.9	2.4	0.484	2.8	2.3	0.552	2.6	2.3	0.628	2.5	2.3	0.672
S-36PY3E U-36PZ3E5	220V-230V-240V 50Hz 1phase	23	16	3.6	2.8	0.682	3.4	2.3	0.801	3.2	2.2	0.915	3.0	2.2	1.04	2.9	2.1	1.11
			19	4.0	2.2	0.679	3.8	1.8	0.797	3.6	1.6	0.910	3.4	1.5	1.04	3.3	1.5	1.11
			22	4.5	1.6	0.669	4.2	1.1	0.786	4.0	1.0	0.897	3.7	0.9	1.02	3.6	0.9	1.09
		25	16	3.6	3.2	0.682	3.4	3.1	0.801	3.2	3.0	0.915	3.0	3.0	1.04	2.9	2.9	1.11
			19	4.0	2.6	0.679	3.8	2.6	0.797	3.6	2.4	0.910	3.4	2.3	1.04	3.3	2.2	1.11
			22	4.5	2.0	0.669	4.2	1.9	0.786	4.0	1.8	0.897	3.7	1.7	1.02	3.6	1.6	1.09
		27	16	3.6	3.5	0.682	3.4	3.4	0.801	3.2	3.2	0.915	3.0	3.0	1.04	2.9	2.9	1.11
			19	4.0	3.0	0.679	3.8	2.9	0.797	3.6	2.8	0.910	3.4	2.7	1.04	3.3	2.6	1.11
			22	4.5	2.3	0.669	4.2	2.3	0.786	4.0	2.2	0.897	3.7	2.1	1.02	3.6	2.0	1.09
		29	16	3.6	3.6	0.682	3.4	3.4	0.801	3.2	3.2	0.915	3.0	3.0	1.04	2.9	2.9	1.11
			19	4.0	3.3	0.679	3.8	3.3	0.797	3.6	3.2	0.910	3.4	3.1	1.04	3.3	3.0	1.11
			22	4.5	2.7	0.669	4.2	2.6	0.786	4.0	2.5	0.897	3.7	2.4	1.02	3.6	2.4	1.09
		32	16	3.6	3.6	0.682	3.4	3.4	0.801	3.2	3.2	0.915	3.0	3.0	1.04	2.9	2.9	1.11
			19	4.0	3.9	0.679	3.8	3.8	0.797	3.6	3.6	0.910	3.4	3.4	1.04	3.3	3.3	1.11
			22	4.5	3.3	0.669	4.2	3.2	0.786	4.0	3.1	0.897	3.7	3.0	1.02	3.6	3.0	1.09
S-50PY3E U-50PZ3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	3.6	1.08	4.8	3.0	1.25	4.6	3.0	1.42	4.2	2.8	1.61	4.0	2.6	1.73
			19	5.6	2.9	1.09	5.3	2.3	1.25	5.0	2.2	1.43	4.6	2.0	1.62	4.3	1.9	1.74
			22	6.1	2.1	1.09	5.8	1.5	1.25	5.5	1.4	1.43	5.1	1.2	1.62	4.8	1.1	1.74
		25	16	5.1	4.1	1.08	4.8	3.9	1.25	4.6	3.9	1.42	4.2	3.7	1.61	4.0	3.5	1.73
			19	5.6	3.4	1.09	5.3	3.2	1.25	5.0	3.1	1.43	4.6	2.9	1.62	4.3	2.8	1.74
			22	6.1	2.5	1.09	5.8	2.4	1.25	5.5	2.3	1.43	5.1	2.1	1.62	4.8	2.0	1.74
		27	16	5.1	4.6	1.08	4.8	4.4	1.25	4.6	4.3	1.42	4.2	4.1	1.61	4.0	4.0	1.73
			19	5.6	3.8	1.09	5.3	3.7	1.25	5.0	3.5	1.43	4.6	3.3	1.62	4.3	3.3	1.74
			22	6.1	3.0	1.09	5.8	2.8	1.25	5.5	2.7	1.43	5.1	2.6	1.62	4.8	2.5	1.74
		29	16	5.1	5.1	1.08	4.8	4.8	1.25	4.6	4.6	1.42	4.2	4.2	1.61	4.0	4.0	1.73
			19	5.6	4.3	1.09	5.3	4.1	1.25	5.0	4.0	1.43	4.6	3.8	1.62	4.3	3.7	1.74
			22	6.1	3.4	1.09	5.8	3.3	1.25	5.5	3.2	1.43	5.1	3.0	1.62	4.8	2.9	1.74
		32	16	5.1	5.1	1.08	4.8	4.8	1.25	4.6	4.6	1.42	4.2	4.2	1.61	4.0	4.0	1.73
			19	5.6	5.0	1.09	5.3	4.8	1.25	5.0	4.7	1.43	4.6	4.5	1.62	4.3	4.3	1.74
			22	6.1	4.1	1.09	5.8	4.0	1.25	5.5	3.9	1.43	5.1	3.7	1.62	4.8	3.6	1.74
S-60PY3E U-60PZ3E5	220V-230V-240V 50Hz 1phase	23	16	6.2	4.3	1.38	5.9	3.7	1.56	5.4	3.4	1.75	5.0	3.3	2.03	4.8	3.1	2.19
			19	6.8	3.5	1.40	6.5	2.8	1.58	6.0	2.5	1.77	5.5	2.3	2.05	5.2	2.3	2.21
			22	7.6	2.6	1.41	7.2	2.0	1.59	6.7	1.9	1.79	6.2	1.6	2.07	5.9	1.4	2.23
		25	16	6.2	4.8	1.38	5.9	4.8	1.56	5.4	4.5	1.75	5.0	4.4	2.03	4.8	4.1	2.19
			19	6.8	4.1	1.40	6.5	3.8	1.58	6.0	3.6	1.77	5.5	3.4	2.05	5.2	3.4	2.21
			22	7.6	3.2	1.41	7.2	3.0	1.59	6.7	2.9	1.79	6.2	2.7	2.07	5.9	2.5	2.23
		27	16	6.2	5.4	1.38	5.9	5.3	1.56	5.4	5.0	1.75	5.0	4.9	2.03	4.8	4.7	2.19
			19	6.8	4.6	1.40	6.5	4.4	1.58	6.0	4.2	1.77	5.5	3.9	2.05	5.2	3.9	2.21
			22	7.6	3.7	1.41	7.2	3.6	1.59	6.7	3.4	1.79	6.2	3.1	2.07	5.9	3.0	2.23
		29	16	6.2	5.9	1.38	5.9	5.8	1.56	5.4	5.4	1.75	5.0	5.0	2.03	4.8	4.8	2.19
			19	6.8	5.2	1.40	6.5	4.9	1.58	6.0	4.7	1.77	5.5	4.5	2.05	5.2	4.5	2.21
			22	7.6	4.2	1.41	7.2	4.0	1.59	6.7	3.9	1.79	6.2	3.7	2.07	5.9	3.5	2.23
		32	16	6.2	6.2	1.38	5.9	5.9	1.56	5.4	5.4	1.75	5.0	5.0	2.03	4.8	4.8	2.19
			19	6.8	6.0	1.40	6.5	5.7	1.58	6.0	5.5	1.77	5.5	5.3	2.05	5.2	5.2	2.21
			22	7.6	5.0	1.41	7.2	4.9	1.59	6.7	4.7	1.79	6.2	4.5	2.07	5.9	4.3	2.23

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-5. 4-Way Cassette 60 × 60 Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			43°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-50PY3E×2 U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	10.9	7.6	3.68	10.2	6.3	3.94	9.6	6.1	4.19	8.7	5.5	4.19	6.7	4.6	3.14		
			19	11.7	6.0	3.84	10.9	4.7	4.11	10.3	4.4	4.37	9.3	4.0	4.37	7.2	3.2	3.28		
			22	12.8	4.4	3.97	12.0	3.2	4.25	11.3	3.0	4.52	10.2	2.6	4.52	7.9	1.7	3.39		
		25	16	11.3	8.7	3.74	10.6	8.4	4.00	10.0	8.1	4.26	9.1	7.6	4.26	7.0	6.6	3.20		
			19	12.1	7.0	3.91	11.3	6.7	4.18	10.6	6.4	4.45	9.7	5.9	4.45	7.4	5.0	3.33		
			22	13.2	5.6	4.04	12.4	5.1	4.32	11.7	4.9	4.60	10.6	4.5	4.60	8.2	3.6	3.45		
		27	16	11.7	9.8	3.81	10.9	9.4	4.07	10.3	9.1	4.33	9.4	8.6	4.33	7.2	7.2	3.25		
			19	12.5	8.1	3.97	11.7	7.8	4.25	11.0	7.4	4.52	10.0	7.1	4.52	7.7	6.1	3.39		
			22	13.7	6.6	4.11	12.8	6.2	4.39	12.1	5.9	4.68	11.0	5.6	4.68	8.4	4.5	3.51		
		29	16	11.9	10.9	3.82	11.1	10.5	4.08	10.5	10.1	4.34	9.5	9.5	4.34	7.3	7.3	3.26		
			19	12.7	9.1	3.98	11.9	8.8	4.26	11.2	8.5	4.53	10.1	8.0	4.53	7.8	7.0	3.40		
			22	13.9	7.6	4.12	13.0	7.4	4.40	12.2	7.0	4.69	11.1	6.5	4.69	8.6	5.6	3.52		
		32	16	12.1	12.1	3.83	11.3	11.3	4.09	10.6	10.6	4.35	9.6	9.6	4.35	7.4	7.4	3.27		
			19	12.9	10.6	3.99	12.0	10.2	4.27	11.3	10.0	4.54	10.3	9.4	4.54	7.9	7.9	3.41		
			22	14.1	9.0	4.13	13.2	8.7	4.41	12.4	8.4	4.70	11.3	8.0	4.70	8.7	6.9	3.52		
S-60PY3E×2 U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.1	9.1	4.56	12.3	7.5	4.88	11.5	7.2	5.19	10.5	6.6	5.19	8.1	5.6	3.90		
			19	14.0	7.2	4.76	13.1	5.7	5.09	12.3	5.2	5.42	11.2	4.8	5.42	8.6	3.8	4.06		
			22	15.4	5.4	4.92	14.4	3.9	5.26	13.5	3.5	5.60	12.3	3.1	5.60	9.5	2.1	4.20		
		25	16	13.6	10.4	4.64	12.7	10.1	4.96	12.0	9.6	5.28	10.9	9.1	5.28	8.4	7.9	3.96		
			19	14.5	8.5	4.84	13.6	7.9	5.17	12.8	7.7	5.51	11.6	7.1	5.51	8.9	6.0	4.13		
			22	15.9	6.6	5.01	14.9	6.2	5.35	14.0	5.8	5.70	12.7	5.4	5.70	9.8	4.3	4.27		
		27	16	14.0	11.7	4.72	13.1	11.2	5.04	12.4	10.8	5.37	11.2	10.3	5.37	8.7	8.7	4.03		
			19	15.0	9.8	4.92	14.0	9.2	5.26	13.2	8.9	5.60	12.0	8.4	5.60	9.2	7.2	4.20		
			22	16.4	7.9	5.09	15.4	7.4	5.44	14.5	7.1	5.79	13.1	6.6	5.79	10.1	5.5	4.35		
		29	16	14.3	12.8	4.73	13.3	12.4	5.05	12.5	11.9	5.38	11.4	11.4	5.38	8.8	8.8	4.04		
			19	15.2	11.0	4.93	14.2	10.4	5.27	13.4	10.1	5.61	12.2	9.5	5.61	9.4	8.3	4.21		
			22	16.7	9.0	5.10	15.6	8.7	5.45	14.7	8.3	5.81	13.3	7.7	5.81	10.3	6.6	4.36		
		32	16	14.5	14.3	4.74	13.5	13.5	5.07	12.7	12.7	5.40	11.6	11.6	5.40	8.9	8.9	4.05		
			19	15.4	12.7	4.94	14.4	12.2	5.29	13.6	11.8	5.63	12.4	11.2	5.63	9.5	9.5	4.22		
			22	16.9	10.7	5.11	15.8	10.4	5.47	14.9	10.0	5.82	13.5	9.4	5.82	10.4	8.1	4.37		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-5. 4-Way Cassette 60 × 60 Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)														
				25°C			30°C			35°C			40°C			46°C		
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT
S-36PY3E U-36PZH3E5	220V-230V-240V 50Hz 1phase	23	16	3.7	2.8	0.625	3.5	2.3	0.704	3.3	2.2	0.791	3.0	2.1	0.917	2.5	1.9	0.889
			19	4.1	2.3	0.632	3.9	1.7	0.713	3.6	1.6	0.800	3.3	1.6	0.928	2.8	1.3	0.900
			22	4.8	1.8	0.638	4.5	1.3	0.720	4.2	1.2	0.807	3.9	1.1	0.936	3.3	0.8	0.908
		25	16	3.7	3.2	0.625	3.5	3.1	0.704	3.3	3.0	0.791	3.0	2.9	0.917	2.5	2.5	0.889
			19	4.1	2.7	0.632	3.9	2.5	0.713	3.6	2.4	0.800	3.3	2.3	0.928	2.8	2.1	0.900
			22	4.8	2.2	0.638	4.5	2.0	0.720	4.2	1.9	0.807	3.9	1.8	0.936	3.3	1.5	0.908
		27	16	3.7	3.6	0.625	3.5	3.5	0.704	3.3	3.3	0.791	3.0	3.0	0.917	2.5	2.5	0.889
			19	4.1	3.0	0.632	3.9	2.9	0.713	3.6	2.8	0.800	3.3	2.7	0.928	2.8	2.5	0.900
			22	4.8	2.6	0.638	4.5	2.4	0.720	4.2	2.3	0.807	3.9	2.2	0.936	3.3	1.9	0.908
		29	16	3.7	3.7	0.625	3.5	3.5	0.704	3.3	3.3	0.791	3.0	3.0	0.917	2.5	2.5	0.889
			19	4.1	3.4	0.632	3.9	3.3	0.713	3.6	3.2	0.800	3.3	3.1	0.928	2.8	2.8	0.900
			22	4.8	2.9	0.638	4.5	2.8	0.720	4.2	2.7	0.807	3.9	2.6	0.936	3.3	2.3	0.908
		32	16	3.7	3.7	0.625	3.5	3.5	0.704	3.3	3.3	0.791	3.0	3.0	0.917	2.5	2.5	0.889
			19	4.1	4.0	0.632	3.9	3.8	0.713	3.6	3.6	0.800	3.3	3.3	0.928	2.8	2.8	0.900
			22	4.8	3.5	0.638	4.5	3.4	0.720	4.2	3.3	0.807	3.9	3.1	0.936	3.3	2.9	0.908
S-50PY3E U-50PZH3E5	220V-230V-240V 50Hz 1phase	23	16	5.1	3.7	1.038	4.9	3.1	1.170	4.5	2.9	1.314	4.2	2.8	1.525	3.5	2.4	1.479
			19	5.7	2.9	1.051	5.4	2.4	1.186	5.0	2.2	1.330	4.6	2.0	1.543	3.9	1.7	1.496
			22	6.4	2.2	1.060	6.0	1.6	1.198	5.6	1.4	1.342	5.2	1.4	1.557	4.4	1.0	1.510
		25	16	5.1	4.2	1.038	4.9	4.1	1.170	4.5	3.9	1.314	4.2	3.7	1.525	3.5	3.3	1.479
			19	5.7	3.3	1.051	5.4	3.3	1.186	5.0	3.1	1.330	4.6	2.9	1.543	3.9	2.6	1.496
			22	6.4	2.7	1.060	6.0	2.5	1.198	5.6	2.3	1.342	5.2	2.3	1.557	4.4	1.9	1.510
		27	16	5.1	4.6	1.038	4.9	4.5	1.170	4.5	4.3	1.314	4.2	4.1	1.525	3.5	3.5	1.479
			19	5.7	3.8	1.051	5.4	3.7	1.186	5.0	3.5	1.330	4.6	3.3	1.543	3.9	3.0	1.496
			22	6.4	3.1	1.060	6.0	2.9	1.198	5.6	2.8	1.342	5.2	2.7	1.557	4.4	2.3	1.510
		29	16	5.1	5.1	1.038	4.9	4.9	1.170	4.5	4.5	1.314	4.2	4.2	1.525	3.5	3.5	1.479
			19	5.7	4.2	1.051	5.4	4.2	1.186	5.0	4.0	1.330	4.6	3.8	1.543	3.9	3.5	1.496
			22	6.4	3.6	1.060	6.0	3.4	1.198	5.6	3.2	1.342	5.2	3.2	1.557	4.4	2.8	1.510
		32	16	5.1	5.1	1.038	4.9	4.9	1.170	4.5	4.5	1.314	4.2	4.2	1.525	3.5	3.5	1.479
			19	5.7	4.9	1.051	5.4	4.9	1.186	5.0	4.7	1.330	4.6	4.5	1.543	3.9	3.9	1.496
			22	6.4	4.2	1.060	6.0	4.1	1.198	5.6	3.9	1.342	5.2	3.8	1.557	4.4	3.4	1.510
S-60PY3E U-60PZH3E5	220V-230V-240V 50Hz 1phase	23	16	6.2	4.3	1.366	5.9	3.7	1.540	5.4	3.4	1.729	5.0	3.3	2.006	4.5	3.0	2.248
			19	6.8	3.5	1.383	6.5	2.8	1.560	6.0	2.5	1.750	5.5	2.3	2.030	5.0	2.2	2.275
			22	7.6	2.6	1.395	7.2	2.0	1.576	6.7	1.9	1.766	6.2	1.6	2.048	5.6	1.3	2.295
		25	16	6.2	4.8	1.366	5.9	4.8	1.540	5.4	4.5	1.729	5.0	4.4	2.006	4.5	4.0	2.248
			19	6.8	4.1	1.383	6.5	3.8	1.560	6.0	3.6	1.750	5.5	3.4	2.030	5.0	3.3	2.275
			22	7.6	3.2	1.395	7.2	3.0	1.576	6.7	2.9	1.766	6.2	2.7	2.048	5.6	2.4	2.295
		27	16	6.2	5.4	1.366	5.9	5.3	1.540	5.4	5.0	1.729	5.0	4.9	2.006	4.5	4.5	2.248
			19	6.8	4.6	1.383	6.5	4.4	1.560	6.0	4.2	1.750	5.5	3.9	2.030	5.0	3.8	2.275
			22	7.6	3.7	1.395	7.2	3.6	1.576	6.7	3.4	1.766	6.2	3.1	2.048	5.6	2.9	2.295
		29	16	6.2	5.9	1.366	5.9	5.8	1.540	5.4	5.4	1.729	5.0	5.0	2.006	4.5	4.5	2.248
			19	6.8	5.1	1.383	6.5	4.9	1.560	6.0	4.7	1.750	5.5	4.5	2.030	5.0	4.4	2.275
			22	7.6	4.2	1.395	7.2	4.0	1.576	6.7	3.9	1.766	6.2	3.7	2.048	5.6	3.4	2.295
		32	16	6.2	6.2	1.366	5.9	5.9	1.540	5.4	5.4	1.729	5.0	5.0	2.006	4.5	4.5	2.248
			19	6.8	6.0	1.383	6.5	5.7	1.560	6.0	5.5	1.750	5.5	5.3	2.030	5.0	5.0	2.275
			22	7.6	5.0	1.395	7.2	4.9	1.576	6.7	4.7	1.766	6.2	4.5	2.048	5.6	4.2	2.295

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-5. 4-Way Cassette 60 × 60 Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-36PY3E×2 U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	8.4	5.9	2.78	8.1	5.1	3.01	7.9	4.9	3.25	7.1	4.5	3.01	2.8	2.6	1.10		
			19	9.0	4.6	2.90	8.7	3.8	3.14	8.4	3.6	3.39	7.5	3.3	3.14	2.9	1.4	1.15		
			22	9.9	3.4	3.00	9.5	2.6	3.25	9.2	2.4	3.50	8.3	2.1	3.25	3.2	0.4	1.19		
		25	16	8.7	6.8	2.83	8.4	6.7	3.07	8.1	6.5	3.30	7.3	6.1	3.06	2.9	2.9	1.12		
			19	9.3	5.5	2.95	9.0	5.4	3.20	8.7	5.2	3.44	7.8	4.8	3.19	3.0	2.9	1.17		
			22	10.2	4.3	3.05	9.9	4.2	3.31	9.5	4.0	3.56	8.6	3.6	3.30	3.3	1.7	1.21		
		27	16	9.0	7.7	2.88	8.7	7.5	3.12	8.4	7.3	3.36	7.6	6.9	3.11	2.9	2.9	1.14		
			19	9.6	6.4	3.00	9.3	6.2	3.25	9.0	6.1	3.50	8.1	5.7	3.24	3.2	3.2	1.19		
			22	10.6	5.2	3.11	10.2	5.0	3.36	9.9	4.9	3.62	8.9	4.4	3.36	3.5	2.5	1.23		
		29	16	9.2	8.5	2.88	8.9	8.4	3.12	8.6	8.1	3.36	7.7	7.7	3.12	3.0	3.0	1.14		
			19	9.8	7.2	3.01	9.5	6.9	3.26	9.1	6.9	3.51	8.2	6.4	3.25	3.2	3.2	1.19		
			22	10.7	5.9	3.11	10.4	5.8	3.37	10.0	5.6	3.63	9.0	5.2	3.36	3.5	3.2	1.23		
		32	16	9.3	9.3	2.89	9.0	9.0	3.13	8.7	8.7	3.37	7.8	7.8	3.13	3.0	3.0	1.15		
			19	9.9	8.3	3.02	9.6	8.2	3.27	9.3	8.0	3.52	8.3	7.5	3.26	3.2	3.2	1.20		
			22	10.9	7.1	3.12	10.5	7.0	3.38	10.2	6.8	3.64	9.1	6.4	3.37	3.6	3.6	1.24		
S-50PY3E×2 U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	8.1	3.63	11.4	7.0	3.82	10.9	6.6	4.00	9.7	6.0	3.64	4.4	3.7	1.89		
			19	12.7	6.4	3.79	12.2	5.2	3.98	11.7	5.0	4.17	10.4	4.4	3.79	4.7	2.2	1.98		
			22	13.9	4.8	3.92	13.3	3.7	4.12	12.8	3.5	4.31	11.4	2.9	3.92	5.2	0.7	2.04		
		25	16	12.3	9.0	3.69	11.8	9.0	3.88	11.3	8.7	4.06	10.1	8.0	3.70	4.6	4.6	1.93		
			19	13.1	7.5	3.85	12.6	7.3	4.05	12.1	7.0	4.24	10.8	6.4	3.86	4.9	4.1	2.01		
			22	14.4	6.0	3.99	13.8	5.8	4.19	13.2	5.5	4.39	11.8	4.9	3.99	5.4	2.6	2.08		
		27	16	12.7	10.0	3.76	12.2	9.9	3.94	11.7	9.8	4.13	10.4	9.2	3.76	4.7	4.7	1.96		
			19	13.6	8.6	3.92	13.0	8.4	4.11	12.5	8.2	4.31	11.1	7.6	3.92	5.1	4.9	2.04		
			22	14.9	7.1	4.05	14.3	6.9	4.26	13.7	6.6	4.46	12.2	6.0	4.06	5.5	3.6	2.11		
		29	16	12.9	11.0	3.76	12.4	10.9	3.95	11.9	10.9	4.14	10.6	10.2	3.77	4.8	4.8	1.96		
			19	13.8	9.7	3.93	13.2	9.4	4.12	12.7	9.1	4.32	11.3	8.5	3.93	5.1	5.1	2.05		
			22	15.1	8.1	4.06	14.5	7.8	4.27	13.9	7.6	4.47	12.4	6.9	4.07	5.6	4.4	2.12		
		32	16	13.1	12.2	3.77	12.6	12.2	3.96	12.1	12.1	4.15	10.7	10.7	3.78	4.9	4.9	1.97		
			19	14.0	11.2	3.94	13.4	10.9	4.13	12.9	10.6	4.33	11.5	9.9	3.94	5.2	5.2	2.05		
			22	15.3	9.6	4.07	14.7	9.3	4.28	14.1	9.0	4.48	12.6	8.4	4.08	5.7	5.7	2.12		
S-60PY3E×2 U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	9.2	4.53	12.8	7.8	4.75	12.2	7.7	4.98	10.9	6.9	4.53	4.5	3.9	1.92		
			19	14.2	7.4	4.72	13.6	5.9	4.96	13.1	5.7	5.19	11.6	5.0	4.72	4.8	2.4	2.00		
			22	15.5	5.5	4.88	14.9	4.2	5.13	14.3	3.9	5.37	12.8	3.3	4.89	5.3	0.6	2.07		
		25	16	13.7	10.5	4.60	13.2	10.2	4.83	12.7	9.9	5.06	11.3	9.2	4.61	4.7	4.7	1.95		
			19	14.7	8.5	4.80	14.1	8.3	5.04	13.5	8.0	5.28	12.1	7.3	4.80	5.0	4.5	2.03		
			22	16.1	6.8	4.97	15.5	6.5	5.22	14.8	6.2	5.47	13.2	5.7	4.97	5.5	2.8	2.10		
		27	16	14.2	11.7	4.68	13.7	11.6	4.91	13.1	11.3	5.15	11.7	10.5	4.68	4.8	4.8	1.98		
			19	15.2	9.9	4.88	14.6	9.6	5.13	14.0	9.3	5.37	12.5	8.6	4.88	5.2	5.2	2.07		
			22	16.6	8.0	5.05	16.0	7.8	5.30	15.3	7.5	5.56	13.7	6.9	5.05	5.7	3.9	2.14		
		29	16	14.4	12.7	4.69	13.9	12.8	4.93	13.3	12.5	5.16	11.8	11.7	4.69	4.9	4.9	1.99		
			19	15.4	11.1	4.89	14.8	10.7	5.14	14.2	10.5	5.38	12.7	9.8	4.90	5.3	5.3	2.07		
			22	16.9	9.2	5.06	16.2	9.0	5.32	15.6	8.7	5.57	13.9	8.0	5.07	5.8	4.9	2.14		
		32	16	14.6	14.3	4.70	14.1	14.1	4.94	13.5	13.5	5.17	12.0	12.0	4.71	5.0	5.0	1.99		
			19	15.6	12.9	4.91	15.0	12.4	5.15	14.4	12.3	5.40	12.8	11.5	4.91	5.3	5.3	2.08		
			22	17.1	10.9	5.07	16.5	10.6	5.33	15.8	10.4	5.58	14.1	9.6	5.08	5.8	5.8	2.15		

1-12. Capacity Table

1-12-1. Cooling Capacity Performance Data

1-12-1-5. 4-Way Cassette 60 × 60 Type

TC :Cooling Capacity
SHC :Sensible Heat Capacity
IPT :Cooling Power Consumption

unit : kW

Model	Power Source	Ambient Return Air		Outdoor air intake temp(°C D.B.)																
				25°C			30°C			35°C			40°C			48°C				
		DB	WB	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT	TC	SHC	IPT		
S-36PY3E×3 U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	11.9	8.5	3.63	11.4	7.2	3.82	10.9	6.9	4.00	9.7	6.4	3.635	4.4	4.0	1.89		
			19	12.7	6.6	3.79	12.2	5.2	3.98	11.7	5.0	4.17	10.4	4.5	3.792	4.7	2.3	1.98		
			22	13.9	4.8	3.92	13.3	3.5	4.12	12.8	3.3	4.31	11.4	2.8	3.923	5.2	0.5	2.04		
		25	16	12.3	9.8	3.69	11.8	9.6	3.88	11.3	9.3	4.06	10.1	8.7	3.696	4.6	4.6	1.93		
			19	13.1	7.9	3.85	12.6	7.6	4.05	12.1	7.4	4.24	10.8	6.8	3.856	4.9	4.5	2.01		
			22	14.4	6.0	3.99	13.8	5.8	4.19	13.2	5.6	4.39	11.8	5.0	3.989	5.4	2.7	2.08		
		27	16	12.7	11.2	3.76	12.2	10.8	3.94	11.7	10.7	4.13	10.4	9.9	3.758	4.7	4.7	1.96		
			19	13.6	9.1	3.92	13.0	8.9	4.11	12.5	8.6	4.31	11.1	8.1	3.920	5.1	5.1	2.04		
			22	14.9	7.3	4.05	14.3	7.1	4.26	13.7	6.9	4.46	12.2	6.3	4.055	5.5	3.9	2.11		
		29	16	12.9	12.4	3.76	12.4	12.0	3.95	11.9	11.8	4.14	10.6	10.6	3.767	4.8	4.8	1.96		
			19	13.8	10.3	3.93	13.2	10.1	4.12	12.7	9.8	4.32	11.3	9.2	3.929	5.1	5.1	2.05		
			22	15.1	8.5	4.06	14.5	8.2	4.27	13.9	8.0	4.47	12.4	7.4	4.065	5.6	5.0	2.12		
		32	16	13.1	13.1	3.77	12.6	12.6	3.96	12.1	12.1	4.15	10.7	10.7	3.776	4.9	4.9	1.97		
			19	14.0	12.0	3.94	13.4	11.8	4.13	12.9	11.5	4.33	11.5	10.9	3.939	5.2	5.2	2.05		
			22	15.3	10.2	4.07	14.7	9.9	4.28	14.1	9.7	4.48	12.6	9.1	4.075	5.7	5.7	2.12		
S-50PY3E×3 U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	15.2	10.7	5.06	14.6	9.2	5.31	14.0	8.8	5.56	12.5	8.0	5.061	4.6	4.6	1.67		
			19	16.2	8.3	5.28	15.6	6.6	5.54	14.9	6.3	5.80	13.3	5.8	5.279	4.9	2.4	1.74		
			22	17.8	6.0	5.46	17.1	4.4	5.73	16.4	4.1	6.00	14.6	3.6	5.461	5.4	0.3	1.80		
		25	16	15.7	12.4	5.14	15.1	12.1	5.40	14.5	11.8	5.66	12.9	11.1	5.146	4.8	4.8	1.70		
			19	16.8	9.9	5.36	16.1	9.6	5.63	15.5	9.3	5.90	13.8	8.6	5.368	5.1	5.1	1.77		
			22	18.4	7.6	5.55	17.7	7.4	5.83	17.0	7.1	6.11	15.1	6.5	5.553	5.6	3.0	1.83		
		27	16	16.2	14.1	5.23	15.6	13.7	5.49	15.0	13.4	5.75	13.3	12.6	5.231	4.9	4.9	1.73		
			19	17.4	11.6	5.45	16.7	11.2	5.73	16.0	10.9	6.00	14.3	10.3	5.457	5.3	5.3	1.80		
			22	19.0	9.3	5.64	18.3	8.9	5.92	17.5	8.7	6.21	15.6	8.0	5.645	5.8	4.6	1.86		
		29	16	16.5	15.6	5.24	15.8	15.2	5.50	15.2	14.9	5.77	13.5	13.5	5.244	5.0	5.0	1.73		
			19	17.6	13.1	5.47	16.9	12.7	5.74	16.2	12.4	6.01	14.5	11.7	5.470	5.4	5.4	1.80		
			22	19.3	10.8	5.66	18.5	10.4	5.94	17.8	10.1	6.22	15.8	9.5	5.659	5.9	5.8	1.87		
		32	16	16.7	16.7	5.25	16.1	16.1	5.52	15.4	15.4	5.78	13.7	13.7	5.257	5.1	5.1	1.73		
			19	17.9	15.2	5.48	17.2	14.9	5.76	16.5	14.6	6.03	14.7	13.7	5.484	5.4	5.4	1.81		
			22	19.6	12.9	5.67	18.8	12.6	5.95	18.1	12.2	6.24	16.1	11.5	5.673	6.0	5.9	1.87		
S-3650PT3E×4 (S-3650PT3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	23	16	13.3	10.1	4.53	12.8	8.4	4.75	12.2	8.1	4.98	10.9	7.5	4.529	4.5	4.5	1.92		
			19	14.2	7.6	4.72	13.6	5.9	4.96	13.1	5.7	5.19	11.6	5.1	4.724	4.8	2.4	2.00		
			22	15.5	5.2	4.88	14.9	3.6	5.13	14.3	3.4	5.37	12.8	2.8	4.888	5.3	0.2	2.07		
		25	16	13.7	11.7	4.60	13.2	11.5	4.83	12.7	11.3	5.06	11.3	10.6	4.606	4.7	4.7	1.95		
			19	14.7	9.2	4.80	14.1	9.0	5.04	13.5	8.8	5.28	12.1	8.1	4.804	5.0	5.0	2.03		
			22	16.1	6.9	4.97	15.5	6.6	5.22	14.8	6.4	5.47	13.2	5.8	4.970	5.5	3.2	2.10		
		27	16	14.2	13.5	4.68	13.7	13.1	4.91	13.1	12.9	5.15	11.7	11.7	4.682	4.8	4.8	1.98		
			19	15.2	10.9	4.88	14.6	10.6	5.13	14.0	10.4	5.37	12.5	9.7	4.884	5.2	5.2	2.07		
			22	16.6	8.5	5.05	16.0	8.3	5.30	15.3	8.0	5.56	13.7	7.4	5.053	5.7	4.7	2.14		
		29	16	14.4	14.4	4.69	13.9	13.9	4.93	13.3	13.3	5.16	11.8	11.8	4.694	4.9	4.9	1.99		
			19	15.4	12.4	4.89	14.8	12.2	5.14	14.2	11.9	5.38	12.7	11.2	4.896	5.3	5.3	2.07		
			22	16.9	10.0	5.06	16.2	9.8	5.32	15.6	9.5	5.57	13.9	8.9	5.065	5.8	5.8	2.14		
		32	16	14.6	14.6	4.70	14.1	14.1	4.94	13.5	13.5	5.17	12.0	12.0	4.705	5.0	5.0	1.99		
			19	15.6	14.7	4.91	15.0	14.4	5.15	14.4	14.1	5.40	12.8	12.8	4.908	5.3	5.3	2.08		
			22	17.1	12.3	5.07	16.5	12.0	5.33	15.8	11.8	5.58	14.1	11.1	5.078	5.8	5.8	2.15		

1-12. Capacity Table

1-12-2. Heating Capacity Performance Data

1-12-2-1. 4-Way Cassette Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		10°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PU3E (S-3650PU3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	16	2.6	0.817	3.3	0.877	4.7	1.00	5.1	1.04	5.6	1.10
		20	2.5	0.869	3.2	0.933	4.6	1.06	5.0	1.10	5.6	1.17
		24	2.5	0.924	3.2	0.992	4.5	1.13	4.9	1.17	5.5	1.24
S-3650PU3E (S-3650PU3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	16	3.7	1.35	4.7	1.50	6.5	1.73	7.0	1.83	7.7	1.92
		20	3.6	1.44	4.6	1.60	6.4	1.84	6.9	1.94	7.6	2.05
		24	3.6	1.52	4.5	1.70	6.3	1.95	6.8	2.06	7.4	2.15
S-6071PU3E (S-6071PU3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.6	1.46	5.5	1.69	7.1	2.09	7.7	2.23	8.1	2.11
		20	4.6	1.54	5.4	1.78	7.0	2.20	7.6	2.35	8.0	2.11
		24	4.5	1.65	5.3	1.91	6.9	2.35	7.4	2.35	7.9	2.11
S-6071PU3E (S-6071PU3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.7	1.66	5.8	1.88	8.2	2.30	8.8	2.40	8.9	2.25
		20	4.7	1.78	5.8	2.02	8.1	2.40	8.7	2.50	8.8	2.25
		24	4.5	1.90	5.6	2.16	7.8	2.50	8.2	2.50	8.6	2.25

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-1. 4-Way Cassette Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-1014PU3E (S-1014PU3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	4.24	12.7	4.63	15.1	3.68	16.0	3.75	18.0	3.69
		20	7.4	4.49	11.8	4.90	14.0	3.90	14.9	3.97	16.7	3.91
		24	6.9	4.56	11.0	4.98	13.1	3.96	13.9	4.04	15.6	3.97
S-1014PU3E (S-1014PU3E(125)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.24	15.7	6.17	16.2	3.97	17.2	4.08	19.3	3.98
		20	9.5	5.54	14.5	6.53	15.0	4.20	15.9	4.32	17.9	4.21
		24	8.8	5.63	13.6	6.64	14.0	4.27	14.9	4.39	16.8	4.28
S-1014PU3E (S-1014PU3E(140)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.44	15.8	6.32	17.3	4.54	18.2	4.62	20.6	4.55
		20	9.8	5.76	14.7	6.69	16.0	4.80	16.8	4.89	19.1	4.81
		24	9.1	5.85	13.7	6.80	15.0	4.88	15.7	4.97	17.9	4.89
S-3650PU3E×2 (S-3650PU3E(50)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	4.24	12.7	4.63	15.1	3.68	16.0	3.75	18.0	3.69
		20	7.4	4.49	11.8	4.90	14.0	3.90	14.9	3.97	16.7	3.91
		24	6.9	4.56	11.0	4.98	13.1	3.96	13.9	4.04	15.6	3.97
S-6071PU3E×2 (S-6071PU3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.24	15.7	6.17	16.2	3.97	17.2	4.08	19.3	3.98
		20	9.5	5.54	14.5	6.53	15.0	4.20	15.9	4.32	17.9	4.21
		24	8.8	5.63	13.6	6.64	14.0	4.27	14.9	4.39	16.8	4.28
S-6071PU3E×2 (S-6071PU3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.44	15.8	6.32	17.3	4.54	18.2	4.62	20.6	4.55
		20	9.8	5.76	14.7	6.69	16.0	4.80	16.8	4.89	19.1	4.81
		24	9.1	5.85	13.7	6.80	15.0	4.88	15.7	4.97	17.9	4.89

1-12. Capacity Table

1-12-2. Heating Capacity Performance Data

1-12-2-1. 4-Way Cassette Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PU3E (S-3650PU3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	16	2.5	0.739	3.9	0.855	5.1	1.06	5.7	1.13	5.8	1.06
		20	2.5	0.770	3.9	0.891	5.0	1.10	5.5	1.18	5.7	1.06
		24	2.3	0.801	3.6	0.927	4.7	1.14	5.3	1.18	5.4	1.06
S-3650PU3E (S-3650PU3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	16	3.3	1.05	5.1	1.22	6.6	1.50	7.4	1.59	7.6	1.49
		20	3.2	1.09	5.0	1.26	6.5	1.55	7.2	1.66	7.4	1.49
		24	3.0	1.11	4.7	1.28	6.1	1.58	6.9	1.66	7.0	1.49
S-6071PU3E (S-6071PU3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	16	4.0	1.56	6.2	1.81	8.1	2.23	9.0	2.41	9.2	2.26
		20	4.0	1.65	6.2	1.90	8.0	2.35	8.8	2.51	9.1	2.26
		24	4.0	1.76	6.1	2.04	7.9	2.51	8.5	2.51	9.0	2.26

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-1. 4-Way Cassette Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		9°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-6071PU3E (S-6071PU3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-1014PU3E (S-1014PU3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	2.76	11.0	3.05	15.1	3.64	16.1	3.71	18.1	3.45
		20	7.3	2.93	10.2	3.23	14.0	3.85	14.9	3.93	16.8	3.66
		24	6.8	2.97	9.5	3.28	13.1	3.91	13.9	3.99	15.7	3.72
S-1014PU3E (S-1014PU3E(125)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.41	12.8	3.79	17.3	4.49	18.3	4.65	19.5	4.06
		20	7.7	3.61	11.9	4.01	16.0	4.75	17.0	4.92	18.0	4.30
		24	7.2	3.67	11.1	4.07	15.0	4.83	15.9	5.00	16.9	4.37
S-1014PU3E (S-1014PU3E(140)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	3.87	14.4	4.38	19.4	5.20	20.6	5.38	21.9	4.70
		20	8.2	4.09	13.3	4.64	18.0	5.50	19.1	5.70	20.3	4.98
		24	7.7	4.16	12.5	4.72	16.9	5.59	17.9	5.79	19.0	5.06
S-3650PU3E×2 (S-3650PU3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-3650PU3E×2 (S-3650PU3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	2.76	11.0	3.05	15.1	3.64	16.1	3.71	18.1	3.45
		20	7.3	2.93	10.2	3.23	14.0	3.85	14.9	3.93	16.8	3.66
		24	6.8	2.97	9.5	3.28	13.1	3.91	13.9	3.99	15.7	3.72
S-6071PU3E×2 (S-6071PU3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.41	12.8	3.79	17.3	4.49	18.3	4.65	19.5	4.06
		20	7.7	3.61	11.9	4.01	16.0	4.75	17.0	4.92	18.0	4.30
		24	7.2	3.67	11.1	4.07	15.0	4.83	15.9	5.00	16.9	4.37
S-6071PU3E×2 (S-6071PU3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	3.87	14.4	4.38	19.4	5.20	20.6	5.38	21.9	4.70
		20	8.2	4.09	13.3	4.64	18.0	5.50	19.1	5.70	20.3	4.98
		24	7.7	4.16	12.5	4.72	16.9	5.59	17.9	5.79	19.0	5.06
S-3650PU3E×3 (S-3650PU3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	2.76	11.0	3.05	15.1	3.64	16.1	3.71	18.1	3.45
		20	7.3	2.93	10.2	3.23	14.0	3.85	14.9	3.93	16.8	3.66
		24	6.8	2.97	9.5	3.28	13.1	3.91	13.9	3.99	15.7	3.72
S-3650PU3E×3 (S-3650PU3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.41	12.8	3.79	17.3	4.49	18.3	4.65	19.5	4.06
		20	7.7	3.61	11.9	4.01	16.0	4.75	17.0	4.92	18.0	4.30
		24	7.2	3.67	11.1	4.07	15.0	4.83	15.9	5.00	16.9	4.37
S-3650PU3E×3 (S-3650PU3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	3.87	14.4	4.38	19.4	5.20	20.6	5.38	21.9	4.70
		20	8.2	4.09	13.3	4.64	18.0	5.50	19.1	5.70	20.3	4.98
		24	7.7	4.16	12.5	4.72	16.9	5.59	17.9	5.79	19.0	5.06
S-3650PU3E×4 (S-3650PU3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.41	12.8	3.79	17.3	4.49	18.3	4.65	19.5	4.06
		20	7.7	3.61	11.9	4.01	16.0	4.75	17.0	4.92	18.0	4.30
		24	7.2	3.67	11.1	4.07	15.0	4.83	15.9	5.00	16.9	4.37

1-12. Capacity Table

1-12-2. Heating Capacity Performance Data

1-12-2-2. Middle Static Pressure Duct Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		10°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PF3E (S-3650PF3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	16	2.6	1.01	3.3	1.08	4.7	1.23	5.1	1.28	5.6	1.35
		20	2.5	1.07	3.2	1.15	4.6	1.31	5.0	1.36	5.6	1.44
		24	2.5	1.14	3.2	1.23	4.5	1.39	4.9	1.45	5.5	1.53
S-3650PF3E (S-3650PF3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	16	3.4	1.41	4.3	1.58	6.0	1.81	6.5	1.92	7.1	2.02
		20	3.4	1.51	4.3	1.68	5.9	1.93	6.4	2.04	7.0	2.15
		24	3.3	1.60	4.2	1.78	5.8	2.05	6.2	2.17	6.8	2.26
S-6071PF3E (S-6071PF3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.6	1.65	5.5	1.91	7.1	2.36	7.7	2.52	8.1	2.38
		20	4.6	1.74	5.4	2.01	7.0	2.48	7.6	2.65	8.0	2.38
		24	4.5	1.86	5.3	2.15	6.9	2.65	7.4	2.65	7.9	2.38
S-6071PF3E (S-6071PF3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.7	1.85	5.8	2.10	8.2	2.56	8.8	2.66	8.9	2.50
		20	4.7	1.98	5.8	2.24	8.1	2.67	8.7	2.78	8.8	2.50
		24	4.5	2.12	5.6	2.40	7.8	2.78	8.2	2.78	8.6	2.50

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-2. Middle Static Pressure Duct Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-1014PF3E (S-1014PF3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.7	4.89	12.2	5.35	14.6	4.25	15.5	4.33	17.4	4.26
		20	7.2	5.18	11.3	5.66	13.5	4.50	14.3	4.58	16.1	4.51
		24	6.7	5.26	10.6	5.75	12.6	4.57	13.4	4.66	15.1	4.58
S-1014PF3E (S-1014PF3E(125)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.91	15.7	6.96	16.2	4.48	17.2	4.61	19.3	4.49
		20	9.5	6.26	14.5	7.37	15.0	4.74	15.9	4.88	17.9	4.75
		24	8.8	6.36	13.6	7.49	14.0	4.82	14.9	4.96	16.8	4.83
S-1014PF3E (S-1014PF3E(140)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.99	15.8	6.95	17.3	4.99	18.2	5.08	20.6	5.00
		20	9.8	6.34	14.7	7.36	16.0	5.28	16.8	5.38	19.1	5.29
		24	9.1	6.44	13.7	7.48	15.0	5.37	15.7	5.47	17.9	5.38
S-3650PF3E×2 (S-3650PF3E(50)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.7	4.97	12.2	5.43	14.6	4.32	15.5	4.40	17.4	4.33
		20	7.2	5.26	11.3	5.75	13.5	4.57	14.3	4.66	16.1	4.58
		24	6.7	5.34	10.6	5.84	12.6	4.64	13.4	4.73	15.1	4.66
S-6071PF3E×2 (S-6071PF3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.91	15.7	6.96	16.2	4.48	17.2	4.61	19.3	4.49
		20	9.5	6.26	14.5	7.37	15.0	4.74	15.9	4.88	17.9	4.75
		24	8.8	6.36	13.6	7.49	14.0	4.82	14.9	4.96	16.8	4.83
S-6071PF3E×2 (S-6071PF3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.99	15.8	6.95	17.3	4.99	18.2	5.08	20.6	5.00
		20	9.8	6.34	14.7	7.36	16.0	5.28	16.8	5.38	19.1	5.29
		24	9.1	6.44	13.7	7.48	15.0	5.37	15.7	5.47	17.9	5.38

1-12. Capacity Table

1-12-2. Heating Capacity Performance Data

1-12-2-2. Middle Static Pressure Duct Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PF3E (S-3650PF3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	16	2.5	1.04	3.9	1.21	5.1	1.49	5.7	1.59	5.8	1.49
		20	2.5	1.09	3.9	1.26	5.0	1.55	5.5	1.66	5.7	1.49
		24	2.3	1.13	3.6	1.31	4.7	1.61	5.3	1.66	5.4	1.49
S-3650PF3E (S-3650PF3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	16	3.3	1.49	5.1	1.72	6.6	2.12	7.4	2.25	7.6	2.10
		20	3.2	1.53	5.0	1.77	6.5	2.19	7.2	2.34	7.4	2.10
		24	3.0	1.56	4.7	1.81	6.1	2.23	6.9	2.34	7.0	2.10
S-6071PF3E (S-6071PF3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	16	4.0	1.60	6.2	1.85	8.1	2.28	9.0	2.47	9.2	2.30
		20	4.0	1.68	6.2	1.94	8.0	2.40	8.8	2.57	9.1	2.30
		24	4.0	1.80	6.1	2.08	7.9	2.57	8.5	2.57	9.0	2.30

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-2. Middle Static Pressure Duct Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		9°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-6071PF3E (S-6071PF3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-1014PF3E (S-1014PF3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.6	3.16	10.6	3.49	14.6	4.16	15.5	4.24	17.5	3.95
		20	7.0	3.34	9.8	3.69	13.5	4.40	14.3	4.49	16.2	4.18
		24	6.6	3.40	9.2	3.75	12.6	4.47	13.4	4.56	15.2	4.25
S-1014PF3E (S-1014PF3E(125)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	3.62	12.3	4.02	16.6	4.76	17.7	4.93	18.7	4.31
		20	7.4	3.83	11.4	4.25	15.4	5.04	16.4	5.22	17.4	4.56
		24	7.0	3.89	10.7	4.32	14.4	5.12	15.3	5.31	16.2	4.63
S-1014PF3E (S-1014PF3E(140)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.5	3.90	13.9	4.42	18.8	5.24	20.0	5.43	21.2	4.74
		20	7.9	4.13	12.9	4.68	17.4	5.55	18.5	5.75	19.6	5.02
		24	7.4	4.20	12.0	4.76	16.3	5.64	17.3	5.84	18.4	5.10
S-3650PF3E×2 (S-3650PF3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.05	7.4	2.44	9.7	2.74	10.0	2.79	10.5	2.63
		20	4.2	2.18	6.8	2.58	9.0	2.90	9.3	2.95	9.7	2.78
		24	4.0	2.21	6.4	2.62	8.4	2.95	8.7	3.00	9.1	2.83
S-3650PF3E×2 (S-3650PF3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.6	3.22	10.6	3.55	14.6	4.23	15.5	4.32	17.5	4.02
		20	7.0	3.40	9.8	3.76	13.5	4.48	14.3	4.57	16.2	4.25
		24	6.6	3.46	9.2	3.82	12.6	4.55	13.4	4.64	15.2	4.32
S-6071PF3E×2 (S-6071PF3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	3.63	12.3	4.03	16.6	4.77	17.7	4.94	18.7	4.32
		20	7.4	3.84	11.4	4.26	15.4	5.05	16.4	5.23	17.4	4.57
		24	7.0	3.90	10.7	4.33	14.4	5.13	15.3	5.32	16.2	4.64
S-6071PF3E×2 (S-6071PF3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.5	3.90	13.9	4.42	18.8	5.24	20.0	5.43	21.2	4.74
		20	7.9	4.13	12.9	4.68	17.4	5.55	18.5	5.75	19.6	5.02
		24	7.4	4.20	12.0	4.76	16.3	5.64	17.3	5.84	18.4	5.10
S-3650PF3E×3 (S-3650PF3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.6	3.20	10.6	3.53	14.6	4.21	15.5	4.30	17.5	4.00
		20	7.0	3.39	9.8	3.74	13.5	4.46	14.3	4.55	16.2	4.24
		24	6.6	3.44	9.2	3.80	12.6	4.53	13.4	4.62	15.2	4.30
S-3650PF3E×3 (S-3650PF3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	3.65	12.3	4.05	16.6	4.80	17.7	4.97	18.7	4.34
		20	7.4	3.86	11.4	4.29	15.4	5.08	16.4	5.26	17.4	4.60
		24	7.0	3.92	10.7	4.36	14.4	5.16	15.3	5.35	16.2	4.67
S-3650PF3E×3 (S-3650PF3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.5	3.94	13.9	4.46	18.8	5.29	20.0	5.48	21.2	4.79
		20	7.9	4.17	12.9	4.72	17.4	5.60	18.5	5.80	19.6	5.07
		24	7.4	4.23	12.0	4.80	16.3	5.69	17.3	5.90	18.4	5.15
S-3650PF3E×4 (S-3650PF3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	3.70	12.3	4.11	16.6	4.87	17.7	5.04	18.7	4.40
		20	7.4	3.91	11.4	4.35	15.4	5.15	16.4	5.34	17.4	4.66
		24	7.0	3.98	10.7	4.42	14.4	5.23	15.3	5.42	16.2	4.73

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-3. Wall Mounted Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		10°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PK3E (S-3650PK3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	16	2.6	0.863	3.3	0.927	4.7	1.05	5.1	1.10	5.6	1.16
		20	2.5	0.918	3.2	0.986	4.6	1.12	5.0	1.16	5.6	1.23
		24	2.5	0.977	3.2	1.05	4.5	1.19	4.9	1.24	5.5	1.31
S-3650PK3E (S-3650PK3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	16	3.7	1.48	4.7	1.65	6.5	1.90	7.0	2.01	7.7	2.11
		20	3.6	1.58	4.6	1.76	6.4	2.02	6.9	2.13	7.6	2.25
		24	3.6	1.67	4.5	1.87	6.3	2.15	6.8	2.27	7.4	2.36
S-6010PK3E (S-6010PK3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.6	1.46	5.5	1.69	7.1	2.09	7.7	2.23	8.1	2.11
		20	4.6	1.54	5.4	1.78	7.0	2.20	7.6	2.35	8.0	2.11
		24	4.5	1.65	5.3	1.91	6.9	2.35	7.4	2.35	7.9	2.11
S-6010PK3E (S-6010PK3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.7	1.66	5.8	1.88	8.2	2.30	8.8	2.40	8.9	2.25
		20	4.7	1.78	5.8	2.02	8.1	2.40	8.7	2.50	8.8	2.25
		24	4.5	1.90	5.6	2.16	7.8	2.50	8.2	2.50	8.6	2.25

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-3. Wall Mounted Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-6010PK3E (S-6010PK3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	6.0	3.21	9.5	3.50	11.3	2.79	12.0	2.84	13.5	2.79
		20	5.6	3.39	8.8	3.71	10.5	2.95	11.1	3.01	12.5	2.96
		24	5.2	3.45	8.3	3.77	9.8	3.00	10.4	3.05	11.7	3.01
S-3650PK3E×2 (S-3650PK3E(50)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.1	4.24	11.2	4.63	13.4	3.68	14.2	3.75	16.0	3.69
		20	6.6	4.49	10.4	4.90	12.4	3.90	13.2	3.97	14.8	3.91
		24	6.2	4.56	9.8	4.98	11.6	3.96	12.3	4.04	13.9	3.97
S-6010PK3E×2 (S-6010PK3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.74	15.7	6.76	16.2	4.35	17.2	4.47	19.3	4.36
		20	9.5	6.07	14.5	7.15	15.0	4.60	15.9	4.73	17.9	4.61
		24	8.8	6.17	13.6	7.27	14.0	4.67	14.9	4.81	16.8	4.69
S-6010PK3E×2 (S-6010PK3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.67	15.8	6.58	17.3	4.72	18.2	4.81	20.6	4.74
		20	9.8	6.00	14.7	6.97	16.0	5.00	16.8	5.09	19.1	5.01
		24	9.1	6.10	13.7	7.08	15.0	5.08	15.7	5.18	17.9	5.09

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-3. Wall Mounted Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PK3E (S-3650PK3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	16	2.5	0.806	3.9	0.933	5.1	1.15	5.7	1.23	5.8	1.15
		20	2.5	0.840	3.9	0.972	5.0	1.20	5.5	1.28	5.7	1.15
		24	2.3	0.874	3.6	1.01	4.7	1.25	5.3	1.28	5.4	1.15
S-3650PK3E (S-3650PK3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	16	3.3	1.24	5.1	1.44	6.6	1.78	7.4	1.88	7.6	1.76
		20	3.2	1.28	5.0	1.48	6.5	1.83	7.2	1.96	7.4	1.76
		24	3.0	1.31	4.7	1.51	6.1	1.87	6.9	1.96	7.0	1.76
S-6010PK3E (S-6010PK3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	16	4.0	1.56	6.2	1.81	8.1	2.23	9.0	2.41	9.2	2.26
		20	4.0	1.65	6.2	1.90	8.0	2.35	8.8	2.51	9.1	2.26
		24	4.0	1.76	6.1	2.04	7.9	2.51	8.5	2.51	9.0	2.26

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-3. Wall Mounted Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		9°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-6010PK3E (S-6010PK3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-6010PK3E (S-6010PK3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	6.4	2.41	9.0	2.65	12.4	3.17	13.2	3.23	14.9	3.01
		20	6.0	2.55	8.4	2.81	11.5	3.35	12.2	3.42	13.8	3.18
		24	5.6	2.59	7.8	2.86	10.8	3.40	11.4	3.47	12.9	3.23
S-3650PK3E (S-3650PK3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-3650PK3E×2 (S-3650PK3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	3.16	11.0	3.49	15.1	4.16	16.1	4.24	18.1	3.95
		20	7.3	3.34	10.2	3.69	14.0	4.40	14.9	4.49	16.8	4.18
		24	6.8	3.40	9.5	3.75	13.1	4.47	13.9	4.56	15.7	4.25
S-6010PK3E×2 (S-6010PK3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.66	12.8	4.07	17.3	4.82	18.3	4.99	19.5	4.36
		20	7.7	3.88	11.9	4.30	16.0	5.10	17.0	5.28	18.0	4.61
		24	7.2	3.94	11.1	4.37	15.0	5.18	15.9	5.37	16.9	4.69
S-6010PK3E×2 (S-6010PK3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	4.15	14.4	4.70	19.4	5.57	20.6	5.78	21.9	5.04
		20	8.2	4.39	13.3	4.98	18.0	5.90	19.1	6.11	20.3	5.34
		24	7.7	4.46	12.5	5.06	16.9	6.00	17.9	6.21	19.0	5.42
S-3650PK3E×3 (S-3650PK3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	3.16	11.0	3.49	15.1	4.16	16.1	4.24	18.1	3.95
		20	7.3	3.34	10.2	3.69	14.0	4.40	14.9	4.49	16.8	4.18
		24	6.8	3.40	9.5	3.75	13.1	4.47	13.9	4.56	15.7	4.25
S-3650PK3E×3 (S-3650PK3E(45)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.66	12.8	4.07	17.3	4.82	18.3	4.99	19.5	4.36
		20	7.7	3.88	11.9	4.30	16.0	5.10	17.0	5.28	18.0	4.61
		24	7.2	3.94	11.1	4.37	15.0	5.18	15.9	5.37	16.9	4.69
S-3650PK3E×3 (S-3650PK3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	4.15	14.4	4.70	19.4	5.57	20.6	5.78	21.9	5.04
		20	8.2	4.39	13.3	4.98	18.0	5.90	19.1	6.11	20.3	5.34
		24	7.7	4.46	12.5	5.06	16.9	6.00	17.9	6.21	19.0	5.42
S-3650PK3E×4 (S-3650PK3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.66	12.8	4.07	17.3	4.82	18.3	4.99	19.5	4.36
		20	7.7	3.88	11.9	4.30	16.0	5.10	17.0	5.28	18.0	4.61
		24	7.2	3.94	11.1	4.37	15.0	5.18	15.9	5.37	16.9	4.69

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-4. Ceiling Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		10°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PT3E (S-3650PT3E(36)) U-36PZ3E5	220V-230V-240V 50Hz 1phase	16	2.6	1.01	3.3	1.08	4.7	1.23	5.1	1.28	5.6	1.35
		20	2.5	1.07	3.2	1.15	4.6	1.31	5.0	1.36	5.6	1.44
		24	2.5	1.14	3.2	1.23	4.5	1.39	4.9	1.45	5.5	1.53
S-3650PT3E (S-3650PT3E(50)) U-50PZ3E5	220V-230V-240V 50Hz 1phase	16	3.7	1.50	4.7	1.68	6.5	1.93	7.0	2.04	7.7	2.14
		20	3.6	1.60	4.6	1.78	6.4	2.05	6.9	2.17	7.6	2.28
		24	3.6	1.70	4.5	1.89	6.3	2.18	6.8	2.30	7.4	2.40
S-6071PT3E (S-6071PT3E(60)) U-60PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.6	1.60	5.5	1.85	7.1	2.28	7.7	2.44	8.1	2.30
		20	4.6	1.68	5.4	1.94	7.0	2.40	7.6	2.57	8.0	2.30
		24	4.5	1.80	5.3	2.08	6.9	2.57	7.4	2.57	7.9	2.30
S-6071PT3E (S-6071PT3E(71)) U-71PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.7	1.83	5.8	2.08	8.2	2.54	8.8	2.64	8.9	2.48
		20	4.7	1.96	5.8	2.23	8.1	2.65	8.7	2.76	8.8	2.48
		24	4.5	2.10	5.6	2.39	7.8	2.76	8.2	2.76	8.6	2.48

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-4. Ceiling Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-1014PT3E (S-1014PT3E(100)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	4.35	12.7	4.75	15.1	3.78	16.0	3.85	18.0	3.79
		20	7.4	4.60	11.8	5.03	14.0	4.00	14.9	4.08	16.7	4.01
		24	6.9	4.67	11.0	5.11	13.1	4.06	13.9	4.14	15.6	4.08
S-1014PT3E (S-1014PT3E(125)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.49	15.7	6.46	16.2	4.16	17.2	4.28	19.3	4.17
		20	9.5	5.81	14.5	6.84	15.0	4.40	15.9	4.53	17.9	4.41
		24	8.8	5.90	13.6	6.95	14.0	4.47	14.9	4.60	16.8	4.48
S-1014PT3E (S-1014PT3E(140)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.90	15.8	6.85	17.3	4.91	18.2	5.01	20.6	4.93
		20	9.8	6.24	14.7	7.25	16.0	5.20	16.8	5.30	19.1	5.21
		24	9.1	6.34	13.7	7.37	15.0	5.28	15.7	5.38	17.9	5.30
S-3650PT3E×2 (S-3650PT3E(50)) U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.0	4.35	12.7	4.75	15.1	3.78	16.0	3.85	18.0	3.79
		20	7.4	4.60	11.8	5.03	14.0	4.00	14.9	4.08	16.7	4.01
		24	6.9	4.67	11.0	5.11	13.1	4.06	13.9	4.14	15.6	4.08
S-6071PT3E×2 (S-6071PT3E(60)) U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	5.49	15.7	6.46	16.2	4.16	17.2	4.28	19.3	4.17
		20	9.5	5.81	14.5	6.84	15.0	4.40	15.9	4.53	17.9	4.41
		24	8.8	5.90	13.6	6.95	14.0	4.47	14.9	4.60	16.8	4.48
S-6071PT3E×2 (S-6071PT3E(71)) U-140PZ3E5 (U-140PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.5	5.90	15.8	6.85	17.3	4.91	18.2	5.01	20.6	4.93
		20	9.8	6.24	14.7	7.25	16.0	5.20	16.8	5.30	19.1	5.21
		24	9.1	6.34	13.7	7.37	15.0	5.28	15.7	5.38	17.9	5.30

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-4. Ceiling Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-3650PT3E (S-3650PT3E(36)) U-36PZH3E5	220V-230V-240V 50Hz 1phase	16	2.5	0.806	3.9	0.933	5.1	1.15	5.7	1.23	5.8	1.15
		20	2.5	0.840	3.9	0.972	5.0	1.20	5.5	1.28	5.7	1.15
		24	2.3	0.874	3.6	1.01	4.7	1.25	5.3	1.28	5.4	1.15
S-3650PT3E (S-3650PT3E(50)) U-50PZH3E5	220V-230V-240V 50Hz 1phase	16	3.3	1.12	5.1	1.30	6.6	1.60	7.4	1.70	7.6	1.58
		20	3.2	1.16	5.0	1.34	6.5	1.65	7.2	1.77	7.4	1.58
		24	3.0	1.18	4.7	1.36	6.1	1.68	6.9	1.77	7.0	1.58
S-6071PT3E (S-6071PT3E(60)) U-60PZH3E5	220V-230V-240V 50Hz 1phase	16	4.0	1.56	6.2	1.81	8.1	2.23	9.0	2.41	9.2	2.26
		20	4.0	1.65	6.2	1.90	8.0	2.35	8.8	2.51	9.1	2.26
		24	4.0	1.76	6.1	2.04	7.9	2.51	8.5	2.51	9.0	2.26

1-12. Capacity Table
1-12-2. Heating Capacity Performance Data
1-12-2-4. Ceiling Type

TC :Heating Capacity
IPT :Heating Power Consumption

unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		9°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-6071PT3E (S-6071PT3E(71)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-1014PT3E (S-1014PT3E(100)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	2.84	11.0	3.13	15.1	3.73	16.1	3.81	18.1	3.54
		20	7.3	3.00	10.2	3.31	14.0	3.95	14.9	4.03	16.8	3.75
		24	6.8	3.05	9.5	3.37	13.1	4.01	13.9	4.09	15.7	3.81
S-1014PT3E (S-1014PT3E(125)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.59	12.8	3.99	17.3	4.72	18.3	4.89	19.5	4.27
		20	7.7	3.80	11.9	4.22	16.0	5.00	17.0	5.18	18.0	4.52
		24	7.2	3.86	11.1	4.29	15.0	5.08	15.9	5.26	16.9	4.60
S-1014PT3E (S-1014PT3E(140)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	4.08	14.4	4.62	19.4	5.48	20.6	5.68	21.9	4.96
		20	8.2	4.31	13.3	4.89	18.0	5.80	19.1	6.01	20.3	5.25
		24	7.7	4.38	12.5	4.97	16.9	5.89	17.9	6.11	19.0	5.33
S-3650PT3E×2 (S-3650PT3E(36)) U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.02	7.4	2.40	9.7	2.69	10.0	2.74	10.5	2.59
		20	4.2	2.14	6.8	2.54	9.0	2.85	9.3	2.90	9.7	2.74
		24	4.0	2.17	6.4	2.58	8.4	2.90	8.7	2.95	9.1	2.78
S-3650PT3E×2 (S-3650PT3E(50)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	2.84	11.0	3.13	15.1	3.73	16.1	3.81	18.1	3.54
		20	7.3	3.00	10.2	3.31	14.0	3.95	14.9	4.03	16.8	3.75
		24	6.8	3.05	9.5	3.37	13.1	4.01	13.9	4.09	15.7	3.81
S-6071PT3E×2 (S-6071PT3E(60)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.59	12.8	3.99	17.3	4.72	18.3	4.89	19.5	4.27
		20	7.7	3.80	11.9	4.22	16.0	5.00	17.0	5.18	18.0	4.52
		24	7.2	3.86	11.1	4.29	15.0	5.08	15.9	5.26	16.9	4.60
S-6071PT3E×2 (S-6071PT3E(71)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	4.08	14.4	4.62	19.4	5.48	20.6	5.68	21.9	4.96
		20	8.2	4.31	13.3	4.89	18.0	5.80	19.1	6.01	20.3	5.25
		24	7.7	4.38	12.5	4.97	16.9	5.89	17.9	6.11	19.0	5.33
S-3650PT3E×3 (S-3650PT3E(36)) U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	2.84	11.0	3.13	15.1	3.73	16.1	3.81	18.1	3.54
		20	7.3	3.00	10.2	3.31	14.0	3.95	14.9	4.03	16.8	3.75
		24	6.8	3.05	9.5	3.37	13.1	4.01	13.9	4.09	15.7	3.81
S-3650PT3E×3 (S-3650PT3E(45)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.59	12.8	3.99	17.3	4.72	18.3	4.89	19.5	4.27
		20	7.7	3.80	11.9	4.22	16.0	5.00	17.0	5.18	18.0	4.52
		24	7.2	3.86	11.1	4.29	15.0	5.08	15.9	5.26	16.9	4.60
S-3650PT3E×3 (S-3650PT3E(50)) U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	4.08	14.4	4.62	19.4	5.48	20.6	5.68	21.9	4.96
		20	8.2	4.31	13.3	4.89	18.0	5.80	19.1	6.01	20.3	5.25
		24	7.7	4.38	12.5	4.97	16.9	5.89	17.9	6.11	19.0	5.33
S-3650PT3E×4 (S-3650PT3E(36)) U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.59	12.8	3.99	17.3	4.72	18.3	4.89	19.5	4.27
		20	7.7	3.80	11.9	4.22	16.0	5.00	17.0	5.18	18.0	4.52
		24	7.2	3.86	11.1	4.29	15.0	5.08	15.9	5.26	16.9	4.60

1-12. Capacity Table

1-12-2. Heating Capacity Performance Data

1-12-2-5. 4-Way Cassette 60 × 60 Type

TC :Heating Capacity
IPT :Heating Power Consumption
unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		10°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-25PY3E U-25PZ3E5	220V-230V-240V 50Hz 1phase	16	2.6	1.04	3.3	1.12	4.7	1.27	5.1	1.32	5.6	1.40
		20	2.5	1.11	3.2	1.19	4.6	1.35	5.0	1.40	5.6	1.49
		24	2.5	1.18	3.2	1.26	4.5	1.44	4.9	1.49	5.5	1.58
S-36PY3E U-36PZ3E5	220V-230V-240V 50Hz 1phase	16	2.6	1.05	3.3	1.13	4.7	1.28	5.1	1.33	5.6	1.41
		20	2.5	1.12	3.2	1.20	4.6	1.36	5.0	1.41	5.6	1.50
		24	2.5	1.19	3.2	1.27	4.5	1.45	4.9	1.50	5.5	1.59
S-50PY3E U-50PZ3E5	220V-230V-240V 50Hz 1phase	16	3.7	1.61	4.7	1.80	6.5	2.07	7.0	2.18	7.7	2.30
		20	3.6	1.72	4.6	1.91	6.4	2.20	6.9	2.32	7.6	2.45
		24	3.6	1.82	4.5	2.03	6.3	2.34	6.8	2.47	7.4	2.57
S-60PY3E U-60PZ3E5A	220V-230V-240V 50Hz 1phase	16	4.6	1.63	5.5	1.89	7.1	2.33	7.7	2.49	8.1	2.35
		20	4.6	1.72	5.4	1.98	7.0	2.45	7.6	2.62	8.0	2.35
		24	4.5	1.84	5.3	2.12	6.9	2.62	7.4	2.62	7.9	2.35

TC :Heating Capacity
IPT :Heating Power Consumption
unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-16°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-50PY3E×2 U-100PZ3E5 (U-100PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.1	4.35	11.2	4.75	13.4	3.78	14.2	3.85	16.0	3.79
		20	6.6	4.60	10.4	5.03	12.4	4.00	13.2	4.08	14.8	4.01
		24	6.2	4.67	9.8	5.11	11.6	4.06	12.3	4.14	13.9	4.08
S-60PY3E×2 U-125PZ3E5 (U-125PZ3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	10.2	6.17	15.7	7.27	16.2	4.68	17.2	4.81	19.3	4.69
		20	9.5	6.53	14.5	7.70	15.0	4.95	15.9	5.09	17.9	4.96
		24	8.8	6.64	13.6	7.82	14.0	5.03	14.9	5.18	16.8	5.04

1-12. Capacity Table

1-12-2. Heating Capacity Performance Data

1-12-2-5. 4-Way Cassette 60 × 60 Type

TC :Heating Capacity
IPT :Heating Power Consumption
unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		8°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-36PY3E U-36PZH3E5	220V-230V-240V 50Hz 1phase	16	2.5	0.97	3.9	1.13	5.1	1.39	5.7	1.49	5.8	1.39
		20	2.5	1.02	3.9	1.17	5.0	1.45	5.5	1.55	5.7	1.39
		24	2.3	1.06	3.6	1.22	4.7	1.51	5.3	1.55	5.4	1.39
S-50PY3E U-50PZH3E5	220V-230V-240V 50Hz 1phase	16	3.3	1.49	5.1	1.73	6.6	2.13	7.4	2.26	7.6	2.11
		20	3.2	1.54	5.0	1.78	6.5	2.20	7.2	2.35	7.4	2.11
		24	3.0	1.57	4.7	1.82	6.1	2.24	6.9	2.35	7.0	2.11
S-60PY3E U-60PZH3E5	220V-230V-240V 50Hz 1phase	16	3.8	1.48	5.8	1.71	7.6	2.11	8.4	2.28	8.6	2.13
		20	3.8	1.55	5.8	1.80	7.5	2.22	8.3	2.38	8.6	2.13
		24	3.7	1.66	5.7	1.92	7.4	2.38	8.0	2.38	8.4	2.13

TC :Heating Capacity
IPT :Heating Power Consumption
unit : kW

Model	Power Source	Ambient Return Air	Outdoor air intake temp (°C W.B.)									
			-21°C		-8°C		6°C		9°C		15°C	
		DB	TC	IPT	TC	IPT	TC	IPT	TC	IPT	TC	IPT
S-36PY3E×2 U-71PZH3E5 (U-71PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	4.6	2.30	7.4	2.73	9.7	3.07	10.0	3.13	10.5	2.95
		20	4.2	2.44	6.8	2.89	9.0	3.25	9.3	3.31	9.7	3.12
		24	4.0	2.48	6.4	2.94	8.4	3.30	8.7	3.36	9.1	3.17
S-50PY3E×2 U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	3.32	11.0	3.67	15.1	4.37	16.1	4.46	18.1	4.15
		20	7.3	3.52	10.2	3.88	14.0	4.63	14.9	4.72	16.8	4.40
		24	6.8	3.58	9.5	3.95	13.1	4.71	13.9	4.80	15.7	4.47
S-60PY3E×2 U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.84	12.8	4.27	17.3	5.05	18.3	5.24	19.5	4.57
		20	7.7	4.07	11.9	4.52	16.0	5.35	17.0	5.54	18.0	4.84
		24	7.2	4.13	11.1	4.59	15.0	5.44	15.9	5.63	16.9	4.92
S-36PY3E×3 U-100PZH3E5 (U-100PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	7.8	3.32	11.0	3.67	15.1	4.37	16.1	4.46	18.1	4.15
		20	7.3	3.52	10.2	3.88	14.0	4.63	14.9	4.72	16.8	4.40
		24	6.8	3.58	9.5	3.95	13.1	4.71	13.9	4.80	15.7	4.47
S-36PY3E×4 U-125PZH3E5 (U-125PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.3	3.84	12.8	4.27	17.3	5.05	18.3	5.24	19.5	4.57
		20	7.7	4.07	11.9	4.52	16.0	5.35	17.0	5.54	18.0	4.84
		24	7.2	4.13	11.1	4.59	15.0	5.44	15.9	5.63	16.9	4.92
S-50PY3E×3 U-140PZH3E5 (U-140PZH3E8)	220V-230V-240V 50Hz 1phase (380V-400V-415V 50Hz 3phase)	16	8.8	4.21	14.4	4.77	19.4	5.66	20.6	5.86	21.9	5.12
		20	8.2	4.46	13.3	5.05	18.0	5.99	19.1	6.21	20.3	5.42
		24	7.7	4.53	12.5	5.14	16.9	6.09	17.9	6.31	19.0	5.51

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-25PY3E	U-25PZ3E5	A++	2.5	6.5	134	46	64	-	×	×	×	×	A++	2.8	4.6	850	46	66	0.00	-	×	×	×	×

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R32 (GWP＝675) *1

*1
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to
global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675.
This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-3650PU3E S-3650PU3E(36)	U-36PZ3E5	A++	3.6	8.1	156	45	64	-	×	×	×	×	A++	2.8	4.8	817	45	66	0.00	-	×	×	×	×
S-3650PF3E S-3650PF3E(36)	U-36PZ3E5	A+	3.4	6.0	198	53	64	-	×	×	×	×	A+	2.4	4.0	839	53	66	0.00	-	×	×	×	×
S-3650PK3E S-3650PK3E(36)	U-36PZ3E5	A++	3.6	7.6	166	51	64	-	×	×	×	×	A+	2.8	4.5	872	51	66	0.00	-	×	×	×	×
S-3650PT3E S-3650PT3E(36)	U-36PZ3E5	A++	3.5	7.2	171	54	64	-	×	×	×	×	A+	2.8	4.4	891	54	66	0.00	-	×	×	×	×
S-36PY3E	U-36PZ3E5	A++	3.6	6.7	188	49	64	-	×	×	×	×	A+	2.8	4.3	912	49	66	0.00	-	×	×	×	×

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R32 (GWP＝675) *1

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Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675.
This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-3650PU3E S-3650PU3E(50)	U-50PZ3E5	A++	5.0	8.0	219	47	64	-	×	×	×	×	A++	4.0	4.7	1191	47	64	0.00	-	×	×	×	×
S-3650PF3E S-3650PF3E(50)	U-50PZ3E5	A++	5.0	6.5	267	57	64	-	×	×	×	×	A+	3.8	4.0	1303	57	64	0.00	-	×	×	×	×
S-3650PK3E S-3650PK3E(50)	U-50PZ3E5	A++	5.0	7.4	237	56	64	-	×	×	×	×	A+	4.0	4.4	1273	56	64	0.00	-	×	×	×	×
S-3650PT3E S-3650PT3E(50)	U-50PZ3E5	A++	5.0	6.7	262	55	64	-	×	×	×	×	A+	4.0	4.1	1365	55	64	0.00	-	×	×	×	×
S-50PY3E	U-50PZ3E5	A++	5.0	7.3	238	54	64	-	×	×	×	×	A+	4.0	4.4	1264	54	64	0.00	-	×	×	×	×

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Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Panasonic

Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-6071PU3E S-6071PU3E(60)	U-60PZ3E5A	A++	6.0	7.8	269	51	64	-	×	×	×	×	A++	4.6	4.9	1314	51	65	0.00	-	×	×	×	×
S-6071PF3E S-6071PF3E(60)	U-60PZ3E5A	A++	5.7	6.4	310	53	64	-	×	×	×	×	A+	4.4	4.4	1376	53	65	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(60)	U-60PZ3E5A	A++	6.1	7.0	305	63	64	-	×	×	×	×	A++	4.6	4.7	1370	63	65	0.00	-	×	×	×	×
S-6071PT3E S-6071PT3E(60)	U-60PZ3E5A	A++	6.0	7.3	288	56	64	-	×	×	×	×	A++	4.6	4.6	1399	56	65	0.00	-	×	×	×	×
S-60PY3E	U-60PZ3E5A	A++	6.0	6.8	305	58	64	-	×	×	×	×	A++	4.6	4.2	1500	58	65	0.00	-	×	×	×	×

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R32 (GWP＝675) *1

*1
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675.
This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-6071PU3E S-6071PU3E(71)	U-71PZ3E5A	A++	7.1	6.8	365	52	66	-	×	×	×	×	A++	5.2	4.6	1583	52	68	0.00	-	×	×	×	×
S-6071PF3E S-6071PF3E(71)	U-71PZ3E5A	A+	6.8	6.0	391	53	66	-	×	×	×	×	A+	4.7	4.1	1591	53	68	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(71)	U-71PZ3E5A	A+	7.1	5.8	429	63	66	-	×	×	×	×	A+	5.2	4.4	1653	63	68	0.00	-	×	×	×	×
S-6071PT3E S-6071PT3E(71)	U-71PZ3E5A	A+	6.8	5.9	404	57	66	-	×	×	×	×	A+	4.7	4.3	1529	57	68	0.00	-	×	×	×	×

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R32 (GWP＝675) *1

*1
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This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-1014PU3E S-1014PU3E(100)	U-100PZ3E5	A++	10.0	6.8	515	60	70	-	×	×	×	×	A+	10.0	4.4	3182	60	70	0.00	-	×	×	×	×
S-3650PU3E×2 S-3650PU3E(50)	U-100PZ3E5	A++	10.0	6.8	515	47	70	-	×	×	×	×	A+	10.0	4.4	3182	47	70	0.00	-	×	×	×	×
S-1014PF3E S-1014PF3E(100)	U-100PZ3E5	A++	9.5	6.6	502	56	70	-	×	×	×	×	A	7.8	3.9	2795	56	70	0.00	-	×	×	×	×
S-3650PF3E×2 S-3650PF3E(50)	U-100PZ3E5	A+	9.5	6.0	548	57	70	-	×	×	×	×	A	7.8	3.9	2777	57	70	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(100)	U-100PZ3E5	A++	9.0	6.5	485	65	70	-	×	×	×	×	A	9.0	3.9	3231	65	70	1.25	-	×	×	×	×
S-3650PK3E×2 S-3650PK3E(50)	U-100PZ3E5	A++	10.0	6.4	547	56	70	-	×	×	×	×	A	10.0	3.9	3590	56	70	1.69	-	×	×	×	×
S-1014PT3E S-1014PT3E(100)	U-100PZ3E5	A++	10.0	6.6	531	60	70	-	×	×	×	×	A+	10.0	4.2	3331	60	70	2.07	-	×	×	×	×
S-3650PT3E×2 S-3650PT3E(50)	U-100PZ3E5	A++	10.0	6.4	543	55	70	-	×	×	×	×	A+	10.0	4.2	3333	55	70	2.07	-	×	×	×	×
S-50PY3E × 2	U-100PZ3E5	A++	10.0	6.2	562	54	70	-	×	×	×	×	A	10.0	3.8	3665	54	70	1.69	-	×	×	×	×

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R32 （GWP＝675) *1

*1
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to
global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675.
This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-1014PU3E S-1014PU3E(100)	U-100PZ3E8	A++	10.0	6.7	521	60	70	-	×	×	×	×	A+	10.0	4.4	3182	60	70	0.00	-	×	×	×	×
S-3650PU3E×2 S-3650PU3E(50)	U-100PZ3E8	A++	10.0	6.7	521	47	70	-	×	×	×	×	A+	10.0	4.4	3182	47	70	0.00	-	×	×	×	×
S-1014PF3E S-1014PF3E(100)	U-100PZ3E8	A++	9.5	6.5	508	56	70	-	×	×	×	×	A	7.8	3.9	2795	56	70	0.00	-	×	×	×	×
S-3650PF3E×2 S-3650PF3E(50)	U-100PZ3E8	A+	9.5	6.0	554	57	70	-	×	×	×	×	A	7.8	3.9	2778	57	70	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(100)	U-100PZ3E8	A++	9.0	6.5	485	65	70	-	×	×	×	×	A	9.0	3.9	3231	65	70	1.25	-	×	×	×	×
S-3650PK3E×2 S-3650PK3E(50)	U-100PZ3E8	A++	10.0	6.4	547	56	70	-	×	×	×	×	A	10.0	3.9	3590	56	70	1.69	-	×	×	×	×
S-1014PT3E S-1014PT3E(100)	U-100PZ3E8	A++	10.0	6.5	537	60	70	-	×	×	×	×	A+	10.0	4.2	3331	60	70	2.07	-	×	×	×	×
S-3650PT3E×2 S-3650PT3E(50)	U-100PZ3E8	A++	10.0	6.3	549	55	70	-	×	×	×	×	A+	10.0	4.2	3333	55	70	2.07	-	×	×	×	×
S-50PY3E × 2	U-100PZ3E8	A++	10.0	6.1	569	54	70	-	×	×	×	×	A	10.0	3.8	3665	54	70	1.69	-	×	×	×	×

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Panasonic

Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-3650PU3E S-3650PU3E(36)	U-36PZH3E5	A+++	3.6	8.9	142	45	62	-	×	×	×	×	A+++	3.6	5.1	988	45	64	0.00	-	×	×	×	×
S-3650PF3E S-3650PF3E(36)	U-36PZH3E5	A++	3.6	6.8	185	53	62	-	×	×	×	×	A+	3.6	4.5	1120	53	64	0.00	-	×	×	×	×
S-3650PK3E S-3650PK3E(36)	U-36PZH3E5	A++	3.6	8.4	150	51	62	-	×	×	×	×	A++	3.6	4.9	1029	51	64	0.00	-	×	×	×	×
S-3650PT3E S-3650PT3E(36)	U-36PZH3E5	A++	3.5	7.7	160	54	62	-	×	×	×	×	A++	3.1	4.9	886	54	64	0.00	-	×	×	×	×
S-36PY3E	U-36PZH3E5	A++	3.6	7.3	171	49	62	-	×	×	×	×	A++	3.6	4.7	1073	49	64	0.00	-	×	×	×	×

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Panasonic

Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-3650PU3E S-3650PU3E(50)	U-50PZH3E5	A+++	5.0	8.6	203	47	64	-	×	×	×	×	A++	4.5	4.9	1286	47	67	0.00	-	×	×	×	×
S-3650PF3E S-3650PF3E(50)	U-50PZH3E5	A++	5.0	6.1	287	57	64	-	×	×	×	×	A+	4.0	4.2	1333	57	67	0.00	-	×	×	×	×
S-3650PK3E S-3650PK3E(50)	U-50PZH3E5	A++	5.0	8.0	219	56	64	-	×	×	×	×	A++	4.5	4.7	1341	56	67	0.00	-	×	×	×	×
S-3650PT3E S-3650PT3E(50)	U-50PZH3E5	A++	5.0	7.4	237	55	64	-	×	×	×	×	A++	4.0	4.8	1167	55	67	0.00	-	×	×	×	×
S-50PY3E	U-50PZH3E5	A++	5.0	7.0	248	54	64	-	×	×	×	×	A++	4.5	4.6	1370	54	67	0.23	-	×	×	×	×

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Panasonic

Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-6071PU3E S-6071PU3E(60)	U-60PZH3E5	A++	6.0	8.0	263	51	65	-	×	×	×	×	A++	4.7	4.8	1371	51	69	0.00	-	×	×	×	×
S-6071PF3E S-6071PF3E(60)	U-60PZH3E5	A++	5.7	7.1	281	53	65	-	×	×	×	×	A+	4.7	4.4	1495	53	69	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(60)	U-60PZH3E5	A++	6.1	7.2	297	63	65	-	×	×	×	×	A++	4.6	4.8	1342	63	69	0.00	-	×	×	×	×
S-6071PT3E S-6071PT3E(60)	U-60PZH3E5	A++	6.0	7.5	280	56	65	-	×	×	×	×	A++	4.6	4.8	1342	56	69	0.00	-	×	×	×	×
S-60PY3E	U-60PZH3E5	A++	6.0	6.7	314	58	65	-	×	×	×	×	A+	4.6	4.3	1498	58	69	0.26	-	×	×	×	×

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Model name		SEER						Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-6071PU3E S-6071PU3E(71)	U-71PZH3E5	A++	7.1	7.7	323	52	65	-	×	×	×	×	A++	5.2	4.8	1517	52	67	0.00	-	×	×	×	×
S-3650PU3E×2 S-3650PU3E(36)	U-71PZH3E5	A++	7.1	7.7	323	45	65	-	×	×	×	×	A++	5.2	4.8	1516	45	67	0.00	-	×	×	×	×
S-6071PF3E S-6071PF3E(71)	U-71PZH3E5	A++	6.8	7.1	332	53	65	-	×	×	×	×	A++	4.7	4.7	1393	53	67	0.00	-	×	×	×	×
S-3650PF3E×2 S-3650PF3E(36)	U-71PZH3E5	A++	6.8	6.4	370	53	65	-	×	×	×	×	A+	4.7	4.4	1480	53	67	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(71)	U-71PZH3E5	A++	7.1	6.8	365	63	65	-	×	×	×	×	A++	5.2	4.7	1549	63	67	0.00	-	×	×	×	×
S-3650PK3E×2 S-3650PK3E(36)	U-71PZH3E5	A++	7.1	6.8	365	51	65	-	×	×	×	×	A++	5.2	4.7	1549	51	67	0.00	-	×	×	×	×
S-6071PT3E S-6071PT3E(71)	U-71PZH3E5	A++	6.8	7.3	326	57	65	-	×	×	×	×	A++	4.7	4.7	1400	57	67	0.00	-	×	×	×	×
S-3650PT3E×2 S-3650PT3E(36)	U-71PZH3E5	A++	6.8	6.8	350	54	65	-	×	×	×	×	A+	4.7	4.5	1446	54	67	0.00	-	×	×	×	×
S-36PY3 × 2	U-71PZH3E5	A++	7.1	6.3	391	49	65	-	×	×	×	×	A+	5.2	4.5	1595	49	67	0.00	-	×	×	×	×

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Panasonic

Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-6071PU3E S-6071PU3E(71)	U-71PZH3E8	A++	7.1	7.6	327	52	65	-	×	×	×	×	A++	5.2	4.8	1517	52	67	0.00	-	×	×	×	×
S-3650PU3E×2 S-3650PU3E(36)	U-71PZH3E8	A++	7.1	7.6	327	45	65	-	×	×	×	×	A++	5.2	4.8	1516	45	67	0.00	-	×	×	×	×
S-6071PF3E S-6071PF3E(71)	U-71PZH3E8	A++	6.8	7.0	338	53	65	-	×	×	×	×	A++	4.7	4.7	1394	53	67	0.00	-	×	×	×	×
S-3650PF3E×2 S-3650PF3E(36)	U-71PZH3E8	A++	6.8	6.3	376	53	65	-	×	×	×	×	A+	4.7	4.4	1480	53	67	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(71)	U-71PZH3E8	A++	7.1	6.7	370	63	65	-	×	×	×	×	A++	5.2	4.7	1549	63	67	0.00	-	×	×	×	×
S-3650PK3E×2 S-3650PK3E(36)	U-71PZH3E8	A++	7.1	6.7	370	51	65	-	×	×	×	×	A++	5.2	4.7	1549	51	67	0.00	-	×	×	×	×
S-6071PT3E S-6071PT3E(71)	U-71PZH3E8	A++	6.8	7.2	331	57	65	-	×	×	×	×	A++	4.7	4.7	1400	57	67	0.00	-	×	×	×	×
S-3650PT3E×2 S-3650PT3E(36)	U-71PZH3E8	A++	6.8	6.7	355	54	65	-	×	×	×	×	A+	4.7	4.5	1447	54	67	0.00	-	×	×	×	×
S-36PY3E × 2	U-71PZH3E8	A++	7.1	6.2	395	49	65	-	×	×	×	×	A+	5.2	4.5	1596	49	67	0.00	-	×	×	×	×

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Panasonic

Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-1014PU3E S-1014PU3E(100)	U-100PZH3E5	A++	10.0	7.8	449	60	69	-	×	×	×	×	A++	8.0	4.9	2286	60	69	0.00	-	×	×	×	×
S-3650PU3E×2 S-3650PU3E(50)	U-100PZH3E5	A++	10.0	7.8	449	47	69	-	×	×	×	×	A++	8.0	4.9	2283	47	69	0.00	-	×	×	×	×
S-3650PU3E×3 S-3650PU3E(36)	U-100PZH3E5	A++	10.0	7.8	449	45	69	-	×	×	×	×	A++	8.0	4.9	2284	45	69	0.00	-	×	×	×	×
S-1014PF3E S-1014PF3E(100)	U-100PZH3E5	A++	9.5	7.4	447	56	69	-	×	×	×	×	A+	7.8	4.5	2424	56	69	0.00	-	×	×	×	×
S-3650PF3E×2 S-3650PF3E(50)	U-100PZH3E5	A++	9.5	6.8	486	57	69	-	×	×	×	×	A+	7.8	4.2	2557	57	69	0.00	-	×	×	×	×
S-3650PF3E×3 S-3650PF3E(36)	U-100PZH3E5	A++	9.5	6.6	500	53	69	-	×	×	×	×	A+	7.8	4.2	2556	53	69	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(100)	U-100PZH3E5	A++	9.5	6.4	520	65	69	-	×	×	×	×	A+	8.0	4.1	2732	65	69	0.00	-	×	×	×	×
S-3650PK3E×2 S-3650PK3E(50)	U-100PZH3E5	A++	10.0	6.4	547	56	69	-	×	×	×	×	A+	8.0	4.1	2730	56	69	0.00	-	×	×	×	×
S-3650PK3E×3 S-3650PK3E(36)	U-100PZH3E5	A++	10.0	6.4	547	51	69	-	×	×	×	×	A+	8.0	4.1	2731	51	69	0.00	-	×	×	×	×
S-1014PT3E S-1014PT3E(100)	U-100PZH3E5	A++	9.5	7.3	456	60	69	-	×	×	×	×	A++	7.8	4.7	2323	60	69	0.00	-	×	×	×	×
S-3650PT3E×2 S-3650PT3E(50)	U-100PZH3E5	A++	9.5	7.1	468	55	69	-	×	×	×	×	A++	7.8	4.7	2324	55	69	0.00	-	×	×	×	×
S-3650PT3E×3 S-3650PT3E(36)	U-100PZH3E5	A++	9.5	6.6	499	54	69	-	×	×	×	×	A+	7.8	4.5	2400	54	69	0.00	-	×	×	×	×
S-50PY3E × 2	U-100PZH3E5	A++	10.0	6.2	561	54	69	-	×	×	×	×	A	8.0	3.9	2838	54	69	0.00	-	×	×	×	×
S-36PY3E × 3	U-100PZH3E5	A++	10.0	6.1	567	49	69	-	×	×	×	×	A	8.0	3.9	2840	49	69	0.00	-	×	×	×	×

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R32 （GWP＝675) *1

*1
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to
global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675.
This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

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Model name		SEER						SCOP																
								Warmer					Average							Colder				
Indoor Unit	Outdoor Unit	A ～ G	kW	SEER	*2 kWh/annum	dB	dB	A ～ G	kW	SCOP	*2 kWh/annum	elbu (2℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	dB	dB	elbu (-10℃) kW	A ～ G	kW	SCOP	*2 kWh/annum	elbu (-22℃) kW
S-1014PU3E S-1014PU3E(100)	U-100PZH3E8	A++	10.0	7.7	455	60	69	-	×	×	×	×	A++	8.0	4.9	2286	60	69	0.00	-	×	×	×	×
S-3650PU3E×2 S-3650PU3E(50)	U-100PZH3E8	A++	10.0	7.7	455	47	69	-	×	×	×	×	A++	8.0	4.9	2283	47	69	0.00	-	×	×	×	×
S-3650PU3E×3 S-3650PU3E(36)	U-100PZH3E8	A++	10.0	7.7	455	45	69	-	×	×	×	×	A++	8.0	4.9	2284	45	69	0.00	-	×	×	×	×
S-1014PF3E S-1014PF3E(100)	U-100PZH3E8	A++	9.5	7.3	451	56	69	-	×	×	×	×	A+	7.8	4.5	2424	56	69	0.00	-	×	×	×	×
S-3650PF3E×2 S-3650PF3E(50)	U-100PZH3E8	A++	9.5	6.7	490	57	69	-	×	×	×	×	A+	7.8	4.2	2557	57	69	0.00	-	×	×	×	×
S-3650PF3E×3 S-3650PF3E(36)	U-100PZH3E8	A++	9.5	6.6	504	53	69	-	×	×	×	×	A+	7.8	4.2	2556	53	69	0.00	-	×	×	×	×
S-6010PK3E S-6010PK3E(100)	U-100PZH3E8	A++	9.5	6.3	526	65	69	-	×	×	×	×	A+	8.0	4.1	2732	65	69	0.00	-	×	×	×	×
S-3650PK3E×2 S-3650PK3E(50)	U-100PZH3E8	A++	10.0	6.3	554	56	69	-	×	×	×	×	A+	8.0	4.1	2730	56	69	0.00	-	×	×	×	×
S-3650PK3E×3 S-3650PK3E(36)	U-100PZH3E8	A++	10.0	6.3	554	51	69	-	×	×	×	×	A+	8.0	4.1	2731	51	69	0.00	-	×	×	×	×
S-1014PT3E S-1014PT3E(100)	U-100PZH3E8	A++	9.5	7.2	462	60	69	-	×	×	×	×	A++	7.8	4.7	2324	60	69	0.00	-	×	×	×	×
S-3650PT3E×2 S-3650PT3E(50)	U-100PZH3E8	A++	9.5	7.0	474	55	69	-	×	×	×	×	A++	7.8	4.6	2326	55	69	0.00	-	×	×	×	×
S-3650PT3E×3 S-3650PT3E(36)	U-100PZH3E8	A++	9.5	6.5	505	54	69	-	×	×	×	×	A+	7.8	4.5	2401	54	69	0.00	-	×	×	×	×
S-50PY3E × 2	U-100PZH3E8	A++	10.0	6.1	568	54	69	-	×	×	×	×	A	8.0	3.9	2838	54	69	0.00	-	×	×	×	×
S-36PY3E × 3	U-100PZH3E8	A++	10.0	6.1	573	49	69	-	×	×	×	×	A	8.0	3.9	2840	49	69	0.00	-	×	×	×	×

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R32 （GWP＝675) *1

*1
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to
global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675.
This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years.
Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

*2
Energy consumption “XYZ” kWh per year, based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	267.1	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj= + 30 °C		9.1	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		5.8	kW	Tj = + 25 °C		8.6	%
Tj= + 20 °C		4.0	kW	Tj = + 20 °C		11.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.027	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	61.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	157.3	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	10.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		6.8	kW	Tj = + 2 °C		3.7	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		12.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.3	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	61.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	257.3	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		10.3	kW	Tj = + 30 °C		4.5	%
Tj= + 25 °C		6.5	kW	Tj = + 25 °C		8.0	%
Tj= + 20 °C		4.3	kW	Tj = + 20 °C		12.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.027	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.4	%
Refrigeration load	$P_{design,h}$	14.0	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		7.5	kW	Tj = + 2 °C		3.6	%
Tj = + 7 °C		4.8	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.0	%
T_{biv} = bivalent temperature		12.3	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	3.1	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	270.8	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		9.1	kW	Tj = + 30 °C		4.9	%
Tj = + 25 °C		5.8	kW	Tj = + 25 °C		8.8	%
Tj = + 20 °C		4.0	kW	Tj = + 20 °C		11.4	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.026	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	51.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	157.4	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	10.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		6.8	kW	Tj = + 2 °C		3.7	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.6	%
T_{biv} = bivalent temperature		12.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.3	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	51.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	260.3	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19ºC (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 ºC	P_{dc}	14.0	kW	Tj= + 35 ºC	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 ºC		10.3	kW	Tj= + 30 ºC		4.6	%
Tj= + 25 ºC		6.5	kW	Tj= + 25 ºC		8.0	%
Tj= + 20 ºC		4.2	kW	Tj= + 20 ºC		12.6	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.026	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	52.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.5	%
Refrigeration load	$P_{design,h}$	14.0	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 ºC	P_{dh}	12.3	kW	Tj = - 7 ºC	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 ºC		7.5	kW	Tj = + 2 ºC		3.6	%
Tj = + 7 ºC		4.8	kW	Tj = + 7 ºC		5.8	%
Tj = + 12 ºC		3.6	kW	Tj = + 12 ºC		7.1	%
T_{biv} = bivalent temperature		12.3	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 ºC (if T_{OL} < - 20 ºC)		-	kW	For water-to-air heat pumps: Tj = - 15 ºC (if T_{OL} < -20 ºC)		-	%
Bivalent temperature	T_{biv}	-7	ºC	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	ºC
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	3.1	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	52.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266.1	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj= + 30 °C		9.1	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		5.8	kW	Tj = + 25 °C		8.7	%
Tj= + 20 °C		4.0	kW	Tj = + 20 °C		11.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.031	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	61.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	157.3	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	10.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		6.8	kW	Tj = + 2 °C		3.7	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		12.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.3	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	61.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	256.5	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		9.9	kW	Tj = + 30 °C		4.5	%
Tj= + 25 °C		6.3	kW	Tj = + 25 °C		8.1	%
Tj= + 20 °C		4.2	kW	Tj = + 20 °C		12.4	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.032	kW	Standby mode	P_{SB}	0.021	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.4	%
Refrigeration load	$P_{design,h}$	14.0	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		7.5	kW	Tj = + 2 °C		3.6	%
Tj = + 7 °C		4.8	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		12.3	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	3.1	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	269.8	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj= + 30 °C		9.1	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		5.8	kW	Tj = + 25 °C		8.7	%
Tj= + 20 °C		3.9	kW	Tj = + 20 °C		12.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.033	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	51.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	157.4	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	10.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		6.8	kW	Tj = + 2 °C		3.7	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.6	%
T_{biv} = bivalent temperature		12.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.3	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	51.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	259.4	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		9.9	kW	Tj = + 30 °C		4.6	%
Tj= + 25 °C		6.3	kW	Tj = + 25 °C		8.2	%
Tj= + 20 °C		4.2	kW	Tj = + 20 °C		12.4	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.032	kW	Standby mode	P_{SB}	0.021	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	52.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6071PU3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.5	%
Refrigeration load	$P_{design,h}$	14.0	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		7.5	kW	Tj = + 2 °C		3.6	%
Tj = + 7 °C		4.8	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		12.3	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.7	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	3.1	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	52.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	257.5	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		8.6	kW	Tj = + 30 °C		5.2	%
Tj= + 25 °C		5.5	kW	Tj = + 25 °C		7.7	%
Tj= + 20 °C		4.1	kW	Tj = + 20 °C		11.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.026	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.1	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	144.2	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	7.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.7	%
Tj = + 2 °C		4.8	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.9	%
Tj = + 12 °C		3.5	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.3	%
T_{OL} = operation limit		8.8	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	252.6	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		9.8	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		6.2	kW	Tj = + 25 °C		7.1	%
Tj= + 20 °C		4.0	kW	Tj = + 20 °C		12.4	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.027	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.4	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	140.8	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		4.9	kW	Tj = + 2 °C		3.3	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.8	%
Tj = + 12 °C		3.6	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	259.3	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		8.6	kW	Tj = + 30 °C		5.2	%
Tj= + 25 °C		5.5	kW	Tj = + 25 °C		7.8	%
Tj= + 20 °C		4.0	kW	Tj = + 20 °C		11.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.029	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.1	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	143.5	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	7.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.7	%
Tj = + 2 °C		4.8	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.8	%
Tj = + 12 °C		3.5	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.3	%
T_{OL} = operation limit		8.8	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	254.6	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		9.8	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		6.2	kW	Tj = + 25 °C		7.3	%
Tj= + 20 °C		4.0	kW	Tj = + 20 °C		12.4	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.029	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.4	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	141.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		4.9	kW	Tj = + 2 °C		3.3	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.8	%
Tj = + 12 °C		3.6	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.026	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	256.5	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		8.6	kW	Tj = + 30 °C		5.2	%
Tj= + 25 °C		5.5	kW	Tj = + 25 °C		7.9	%
Tj= + 20 °C		4.1	kW	Tj = + 20 °C		11.1	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.023	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.031	kW	Standby mode	P_{SB}	0.023	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.1	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	144.1	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	7.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.7	%
Tj = + 2 °C		4.8	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.9	%
Tj = + 12 °C		3.4	kW	Tj = + 12 °C		5.8	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.3	%
T_{OL} = operation limit		8.8	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	251.7	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		9.8	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		6.2	kW	Tj = + 25 °C		7.1	%
Tj= + 20 °C		4.0	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.032	kW	Standby mode	P_{SB}	0.021	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.4	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	140.8	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		4.9	kW	Tj = + 2 °C		3.3	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.8	%
Tj = + 12 °C		3.5	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	257.9	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		8.6	kW	Tj = + 30 °C		5.2	%
Tj= + 25 °C		5.5	kW	Tj = + 25 °C		7.9	%
Tj= + 20 °C		4.1	kW	Tj = + 20 °C		11.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.023	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.031	kW	Standby mode	P_{SB}	0.024	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.1	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	143.4	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	7.9	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.7	%
Tj = + 2 °C		4.8	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.8	%
Tj = + 12 °C		3.5	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.3	%
T_{OL} = operation limit		8.8	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.035	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	253.4	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj= + 30 °C		9.8	kW	Tj = + 30 °C		4.9	%
Tj= + 25 °C		6.2	kW	Tj = + 25 °C		7.2	%
Tj= + 20 °C		3.8	kW	Tj = + 20 °C		12.7	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.032	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m³/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.4	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	141.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		4.9	kW	Tj = + 2 °C		3.3	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		4.8	%
Tj = + 12 °C		3.5	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.031	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.000	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m³/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	237.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.4	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.1	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		10.1	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	139.7	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.0	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.4	%
Tj = + 12 °C		4.2	kW	Tj = + 12 °C		6.6	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		2.0	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	2.4	kW
Thermostat-off mode	P_{TO}	0.014	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	228.6	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.8	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.1	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		10.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	137.7	%
Refrigeration load	$P_{design,h}$	13.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	1.9	%
Tj = + 2 °C		7.5	kW	Tj = + 2 °C		3.3	%
Tj = + 7 °C		4.8	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		4.3	kW	Tj = + 12 °C		6.2	%
T_{biv} = bivalent temperature		12.0	kW	T_{biv} = bivalent temperature		1.9	%
T_{OL} = operation limit		8.9	kW	T_{OL} = operation limit		1.4	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	2.8	kW
Thermostat-off mode	P_{TO}	0.014	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	236.3	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.4	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.1	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		10.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.003	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	139.7	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.0	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.4	%
Tj = + 12 °C		4.2	kW	Tj = + 12 °C		6.6	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		2.0	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	2.4	kW
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6010PK3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	228.0	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.8	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.1	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		10.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.003	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m³/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6010PK3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	137.7	%
Refrigeration load	$P_{design,h}$	13.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	1.9	%
Tj = + 2 °C		7.5	kW	Tj = + 2 °C		3.3	%
Tj = + 7 °C		4.8	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		4.3	kW	Tj = + 12 °C		6.2	%
T_{biv} = bivalent temperature		12.0	kW	T_{biv} = bivalent temperature		1.9	%
T_{OL} = operation limit		8.9	kW	T_{OL} = operation limit		1.4	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	2.8	kW
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m³/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	241.7	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.3	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		11.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	64.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	147.4	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.5	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.0	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	2.7	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	64.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-1014PT3E

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	228.8	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.9	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.3	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		6.5	%
Tj = + 20 °C		3.8	kW	Tj = + 20 °C		10.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	65.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-1014PT3E

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	145.3	%
Refrigeration load	$P_{design,h}$	13.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		7.3	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.7	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.9	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		12.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	3.0	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	65.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	244.4	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.3	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		11.6	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	56.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	147.7	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.5	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.2	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.0	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	2.7	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	56.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6071PT3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	231.1	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.9	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.3	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		6.5	%
Tj = + 20 °C		3.8	kW	Tj = + 20 °C		11.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	57.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E5
	Indoor Unit	S-6071PT3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	145.5	%
Refrigeration load	$P_{design,h}$	13.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		7.3	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.7	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.9	kW	Tj = + 12 °C		7.2	%
T_{biv} = bivalent temperature		12.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	3.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	57.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	240.9	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.3	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		11.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	64.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	147.4	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.5	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.0	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	2.7	kW
Thermostat-off mode	P_{TO}	0.033	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	64.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-1014PT3E

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	228.1	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.9	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.3	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		6.5	%
Tj = + 20 °C		3.8	kW	Tj = + 20 °C		10.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	65.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-1014PT3E

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	145.3	%
Refrigeration load	$P_{design,h}$	13.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		7.3	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.7	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.9	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		12.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.020	kW	back-up heating capacity *	elbu	3.0	kW
Thermostat-off mode	P_{TO}	0.033	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	65.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	243.2	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.3	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		11.6	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.015	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	56.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	147.6	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.5	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.2	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.0	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	2.7	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4800	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	56.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	230.1	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.9	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.3	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		6.5	%
Tj = + 20 °C		3.8	kW	Tj = + 20 °C		11.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.015	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5040	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB				
Sound power level, indoor	L_{WA}	57.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZ3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	145.5	%
Refrigeration load	$P_{design,h}$	13.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	12.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.2	%
Tj = + 2 °C		7.3	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.7	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.9	kW	Tj = + 12 °C		7.2	%
T_{biv} = bivalent temperature		12.0	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	3.0	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4920	m^3/h
Sound power level, outdoor	L_{WA}	74.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	57.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-60PY3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	229.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.0	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.2	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		9.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5160	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E5
	Indoor Unit	S-60PY3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	139.0	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.0	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.4	%
Tj = + 12 °C		4.2	kW	Tj = + 12 °C		6.1	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		1.9	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	2.4	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4680	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-60PY3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	227.8	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.0	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.2	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		9.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.015	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		5160	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZ3E8
	Indoor Unit	S-60PY3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	12.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	139.0	%
Refrigeration load	$P_{design,h}$	12.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	11.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.0	%
Tj = + 2 °C		6.7	kW	Tj = + 2 °C		3.4	%
Tj = + 7 °C		4.3	kW	Tj = + 7 °C		5.4	%
Tj = + 12 °C		4.2	kW	Tj = + 12 °C		6.1	%
T_{biv} = bivalent temperature		11.0	kW	T_{biv} = bivalent temperature		1.9	%
T_{OL} = operation limit		8.6	kW	T_{OL} = operation limit		1.5	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-7	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-15	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.015	kW	back-up heating capacity *	elbu	2.4	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.015	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		4680	m^3/h
Sound power level, outdoor	L_{WA}	73.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	304.3	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.4	%
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		14.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.020	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	61.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-1014PU3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	%
Tj = + 12 °C		3.9	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	%
T_{OL} = operation limit		6.8	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.032	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	61.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-1014PU3E

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	286.6	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19ºC (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 ºC	P_{dc}	14.0	kW	Tj = + 35 ºC	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	~~%~~
Tj = + 30 ºC		10.3	kW	Tj = + 30 ºC		5.0	~~%~~
Tj = + 25 ºC		6.6	kW	Tj = + 25 ºC		8.9	~~%~~
Tj = + 20 ºC		4.1	kW	Tj = + 20 ºC		14	~~%~~
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.020	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-1014PU3E

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.2	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 ºC	P_{dh}	9.3	kW	Tj = - 7 ºC	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	~~%~~
Tj = + 2 ºC		5.7	kW	Tj = + 2 ºC		4.4	~~%~~
Tj = + 7 ºC		3.6	kW	Tj = + 7 ºC		6.1	~~%~~
Tj = + 12 ºC		3.9	kW	Tj = + 12 ºC		7.5	~~%~~
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.7	~~%~~
T_{OL} = operation limit		7.2	kW	T_{OL} = operation limit		2.0	~~%~~
For air-to-water heat pumps: Tj = - 15 ºC (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 °C)		-	~~%~~
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	ºC
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.032	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	309.3	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.4	%
Tj = + 20 °C		4.4	kW	Tj = + 20 °C		14.6	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	51.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.7	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	%
T_{OL} = operation limit		6.5	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	51.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	291.0	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		5.0	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		8.9	%
Tj = + 20 °C		4.4	kW	Tj = + 20 °C		14.4	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	52.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.6	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		4.4	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		6.1	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.6	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.7	%
T_{OL} = operation limit		6.8	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	52.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	309.8	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.5	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		14.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	46.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.7	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	%
T_{OL} = operation limit		6.3	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	46.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	291.2	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19ºC (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 ºC	P_{dc}	14.0	kW	Tj = + 35 ºC	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 ºC		10.3	kW	Tj = + 30 ºC		5.0	%
Tj = + 25 ºC		6.6	kW	Tj = + 25 ºC		9.0	%
Tj = + 20 ºC		4.2	kW	Tj = + 20 ºC		14.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	47.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.6	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 ºC	P_{dh}	9.3	kW	Tj = - 7 ºC	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 ºC		5.7	kW	Tj = + 2 ºC		4.4	%
Tj = + 7 ºC		3.6	kW	Tj = + 7 ºC		6.1	%
Tj = + 12 ºC		3.8	kW	Tj = + 12 ºC		7.6	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.7	%
T_{OL} = operation limit		6.7	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 ºC (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	ºC
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	47.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5	
	Indoor Unit	S-3650PU3E	X4
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	310.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	~~%~~
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	~~%~~
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.4	~~%~~
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		14.6	~~%~~
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	45.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5	
	Indoor Unit	S-3650PU3E	X4
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	~~%~~
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	~~%~~
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	~~%~~
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.7	~~%~~
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	~~%~~
T_{OL} = operation limit		6.7	kW	T_{OL} = operation limit		2.0	~~%~~
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	~~%~~
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.013	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	45.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-1014PU3E

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	303.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19ºC (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 ºC	P_{dc}	12.5	kW	Tj = + 35 ºC	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	%
Tj = + 30 ºC		9.2	kW	Tj = + 30 ºC		5.5	%
Tj = + 25 ºC		5.9	kW	Tj = + 25 ºC		9.4	%
Tj = + 20 ºC		4.1	kW	Tj = + 20 ºC		14.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.020	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	61.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-1014PU3E

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 ºC	P_{dh}	8.4	kW	Tj = - 7 ºC	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 ºC		5.1	kW	Tj = + 2 ºC		4.6	%
Tj = + 7 ºC		3.5	kW	Tj = + 7 ºC		6.2	%
Tj = + 12 ºC		3.9	kW	Tj = + 12 ºC		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	%
T_{OL} = operation limit		6.8	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 ºC (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	ºC
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	61.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-1014PU3E

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	285.6	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19ºC (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 ºC	P_{dc}	14.0	kW	Tj = + 35 ºC	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 ºC		10.3	kW	Tj = + 30 ºC		5.0	%
Tj = + 25 ºC		6.6	kW	Tj = + 25 ºC		8.9	%
Tj = + 20 ºC		4.1	kW	Tj = + 20 ºC		14	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.020	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-1014PU3E

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.1	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 ºC	P_{dh}	9.3	kW	Tj = - 7 ºC	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 ºC		5.7	kW	Tj = + 2 ºC		4.4	%
Tj = + 7 ºC		3.6	kW	Tj = + 7 ºC		6.1	%
Tj = + 12 ºC		3.9	kW	Tj = + 12 ºC		7.4	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.7	%
T_{OL} = operation limit		7.2	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 ºC (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 ºC (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	ºC
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	308.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	~~%~~
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	~~%~~
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.4	~~%~~
Tj = + 20 °C		4.4	kW	Tj = + 20 °C		14.6	~~%~~
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	51.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	~~%~~
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	~~%~~
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	~~%~~
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.7	~~%~~
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	~~%~~
T_{OL} = operation limit		6.5	kW	T_{OL} = operation limit		2.0	~~%~~
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	~~%~~
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	51.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	289.6	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		5.0	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		8.9	%
Tj = + 20 °C		4.4	kW	Tj = + 20 °C		14.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	52.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8	
	Indoor Unit	S-6071PU3E	X2
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.6	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		4.4	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		6.1	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.6	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.7	%
T_{OL} = operation limit		6.8	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	52.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	308.4	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.5	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		14.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	46.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.7	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	%
T_{OL} = operation limit		6.3	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	46.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	290.4	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		5.0	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		9.0	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		14.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.014	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	47.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8	
	Indoor Unit	S-3650PU3E	X3
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.6	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		4.4	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		6.1	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.6	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.7	%
T_{OL} = operation limit		6.7	kW	T_{OL} = operation limit		2.0	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.016	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	47.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8	
	Indoor Unit	S-3650PU3E	X4
Outdoor side heat exchanger of air conditioner:			air
Indoor side heat exchanger of air conditioner:			air
Type: compressor driven vapour compression or sorption process			vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	308.7	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.8	~~%~~
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.5	~~%~~
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		9.4	~~%~~
Tj = + 20 °C		4.1	kW	Tj = + 20 °C		14.6	~~%~~
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	45.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8	
	Indoor Unit	S-3650PU3E	X4
Outdoor side heat exchanger of heat pump:			air
Indoor side heat exchanger of heat pump:			air
Indication if the heater is equipped with a supplementary heater:			no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]			electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.			

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	186.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	3.1	~~%~~
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	~~%~~
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.2	~~%~~
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.7	~~%~~
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.8	~~%~~
T_{OL} = operation limit		6.7	kW	T_{OL} = operation limit		2.0	~~%~~
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: T_j = - 15 °C (if T_{OL} < -20 °C)		-	~~%~~
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.015	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	45.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	281.7	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.6	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.4	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		14.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	170.0	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		4.2	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.7	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.2	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.3	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.037	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	275.9	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.9	kW	Tj = + 30 °C		5.1	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.3	kW	Tj = + 20 °C		13.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.019	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	171.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.2	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.032	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	281.9	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.6	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.7	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		13.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.008	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.008	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	167.4	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		4.1	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.6	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.3	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.008	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.008	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	279.7	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.9	kW	Tj = + 30 °C		5.1	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.3	kW	Tj = + 20 °C		13.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.008	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.008	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	171.2	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.2	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.008	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.008	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PF3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	273.4	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		13.1	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.008	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.008	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PF3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	163.5	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.4	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.3	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.008	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.008	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-3650PF3E×3

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266.8	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.3	%
Tj = + 30 °C		9.9	kW	Tj = + 30 °C		5.0	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.3	kW	Tj = + 20 °C		12.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.008	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.008	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	57.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-3650PF3E×3

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.2	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.5	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.008	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.008	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	57.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PF3E×4
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	262.3	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.1	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.2	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		11.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.008	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.008	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PF3E×4
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	156.0	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.7	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		3.8	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.5	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.008	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.008	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.008	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	281.0	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.6	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.4	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		14.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.016	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.024	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	170.0	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		4.2	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.7	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.2	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.3	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.016	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.039	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	275.2	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.9	kW	Tj = + 30 °C		5.1	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.3	kW	Tj = + 20 °C		13.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.016	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.019	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	62.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-1014PF3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	170.9	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.2	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.016	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.035	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	62.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	280.7	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.6	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.7	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		13.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	167.3	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		4.1	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.6	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.3	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.010	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.010	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	278.7	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.9	kW	Tj = + 30 °C		5.1	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.3	kW	Tj = + 20 °C		13.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-6071PF3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	171.2	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.2	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.010	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.010	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PF3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	272.3	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		13.1	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PF3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	163.5	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.4	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.3	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.010	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.010	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-3650PF3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	265.9	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.3	%
Tj = + 30 °C		9.9	kW	Tj = + 30 °C		5.0	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.3	kW	Tj = + 20 °C		12.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	57.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-3650PF3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	15.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.2	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.5	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		9.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.010	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.010	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	57.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PF3E×4
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	261.3	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.1	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.2	%
Tj = + 20 °C		3.4	kW	Tj = + 20 °C		11.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	53.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PF3E×4
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	13.5	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	156.0	%
Refrigeration load	$P_{design,h}$	9.3	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.2	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.7	%
Tj = + 2 °C		5.0	kW	Tj = + 2 °C		3.8	%
Tj = + 7 °C		3.2	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.5	%
T_{biv} = bivalent temperature		9.3	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		8.4	kW	T_{OL} = operation limit		2.2	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.010	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.010	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	53.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	279.6	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.010	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.005	kW	Standby mode	P_{SB}	0.010	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.3	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.3	%
T_{OL} = operation limit		6.0	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	267.3	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.9	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		8.0	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	160.4	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		3.9	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.0	%
T_{OL} = operation limit		6.5	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.018	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PK3E×3

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	280.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.007	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	54.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PK3E×3

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.3	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		5.7	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	54.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-3650PK3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	267.7	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.9	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		8.0	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	56.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-3650PK3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	160.4	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		3.9	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.0	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.018	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	56.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PK3E×4
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	280.2	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.007	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	51.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PK3E×4
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.3	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.3	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	51.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-6010PK3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	278.5	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		8.3	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		12.5	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.007	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-6010PK3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.3	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		6.0	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266.4	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.9	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		8.0	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	63.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-6010PK3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	160.4	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		3.9	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.0	%
T_{OL} = operation limit		6.5	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.018	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	63.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PK3E×3

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	278.9	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.007	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	54.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PK3E×3

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.3	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.0	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		5.7	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	54.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-3650PK3E×3

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266.8	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.9	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		8.0	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.017	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	56.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-3650PK3E×3

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	160.4	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.4	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		3.9	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		2.0	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.018	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	56.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PK3E×4
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	279.1	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.4	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		12.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.007	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	51.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PK3E×4
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	164.3	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.0	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		7.5	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.017	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	51.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	278.4	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.4	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		12.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	64.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	181.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.9	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.027	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	64.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	263.3	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.8	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	65.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	178.0	%
Refrigeration load	$P_{design,h}$	10.2	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.4	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		10.2	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.3	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.014	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.027	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	65.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	284.1	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.4	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		8.3	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		12.7	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	56.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	182.1	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.9	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	56.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266.7	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.8	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		12.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	57.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	179.1	%
Refrigeration load	$P_{design,h}$	10.2	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.4	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		10.2	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.3	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	57.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	275.1	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		8.0	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	55.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	176.8	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	55.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	265.5	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.8	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	55.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	178.2	%
Refrigeration load	$P_{design,h}$	10.2	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.4	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		10.2	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.3	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m³/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	55.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PT3E×4
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	268.8	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.1	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	54.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-3650PT3E×4
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	173.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.4	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.6	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	54.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	277.3	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.4	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		8.2	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		12.3	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	64.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	180.9	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.9	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	64.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	262.4	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.8	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.013	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	65.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-1014PT3E
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	178.0	%
Refrigeration load	$P_{design,h}$	10.2	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.4	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		10.2	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.3	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.017	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.030	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	65.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	282.4	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.4	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		8.3	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		12.7	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	56.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	182.1	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.9	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.6	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	56.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	265.4	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.8	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		12.2	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	57.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-6071PT3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	179.0	%
Refrigeration load	$P_{design,h}$	10.2	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.4	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		6.0	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.4	%
T_{biv} = bivalent temperature		10.2	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.3	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	57.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	273.5	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		8.0	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	55.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	176.8	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.8	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.1	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	55.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	264.1	%
Refrigeration load	$P_{design,c}$	13.4	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	13.4	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.2	%
Tj = + 30 °C		9.8	kW	Tj = + 30 °C		5.2	%
Tj = + 25 °C		6.3	kW	Tj = + 25 °C		7.5	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.9	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	55.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-3650PT3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	178.1	%
Refrigeration load	$P_{design,h}$	10.2	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.0	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.4	kW	Tj = + 2 °C		4.5	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.9	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		7.3	%
T_{biv} = bivalent temperature		10.2	kW	T_{biv} = bivalent temperature		2.5	%
T_{OL} = operation limit		7.3	kW	T_{OL} = operation limit		1.9	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	55.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PT3E×4
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.1	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	267.2	%
Refrigeration load	$P_{design,c}$	12.1	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.1	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.5	%
Tj = + 30 °C		8.9	kW	Tj = + 30 °C		5.3	%
Tj = + 25 °C		5.7	kW	Tj = + 25 °C		7.8	%
Tj = + 20 °C		3.7	kW	Tj = + 20 °C		11.1	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	54.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-3650PT3E×4
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	173.0	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.8	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		4.4	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.6	%
Tj = + 12 °C		3.8	kW	Tj = + 12 °C		6.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.4	%
T_{OL} = operation limit		7.1	kW	T_{OL} = operation limit		1.8	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	54.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-60PY3E×2

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	245.0	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.4	%
Tj = + 20 °C		4.5	kW	Tj = + 20 °C		10.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-60PY3E×2

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		3.8	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		6.0	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-50PY3E×3
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	233.4	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.8	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.2	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		10.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	54.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E5
	Indoor Unit	S-50PY3E×3
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	146.2	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.3	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		3.6	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		6.1	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		1.9	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	54.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-36PY3E×4

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	245.4	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.4	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		10.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.009	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.009	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	49.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E5
	Indoor Unit	S-36PY3E×4

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		3.8	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.009	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.009	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	49.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-60PY3E×2
Outdoor side heat exchanger of air conditioner:		air
Indoor side heat exchanger of air conditioner:		air
Type: compressor driven vapour compression or sorption process		vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	243.8	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.4	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		10.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	58.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-60PY3E×2
Outdoor side heat exchanger of heat pump:		air
Indoor side heat exchanger of heat pump:		air
Indication if the heater is equipped with a supplementary heater:		no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]		electric motor
Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.		

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		3.8	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		5.7	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m^3/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	58.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-50PY3E×3

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.0	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	232.2	%
Refrigeration load	$P_{design,c}$	14.0	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	14.0	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	2.8	%
Tj = + 30 °C		10.3	kW	Tj = + 30 °C		4.2	%
Tj = + 25 °C		6.6	kW	Tj = + 25 °C		7.0	%
Tj = + 20 °C		4.3	kW	Tj = + 20 °C		10.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7740	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB				
Sound power level, indoor	L_{WA}	54.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-140PZH3E8
	Indoor Unit	S-50PY3E×3

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	146.2	%
Refrigeration load	$P_{design,h}$	10.6	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	9.3	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.3	%
Tj = + 2 °C		5.7	kW	Tj = + 2 °C		3.6	%
Tj = + 7 °C		3.6	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		6.1	%
T_{biv} = bivalent temperature		10.6	kW	T_{biv} = bivalent temperature		1.9	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6960	m^3/h
Sound power level, outdoor	L_{WA}	71.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m^3/h
Sound power level, indoor	L_{WA}	54.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for air-to-air air conditioners

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-36PY3E×4

Outdoor side heat exchanger of air conditioner:	air
Indoor side heat exchanger of air conditioner:	air
Type: compressor driven vapour compression or sorption process	vapour compression
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	12.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	244.2	%
Refrigeration load	$P_{design,c}$	12.5	kW				
Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27°/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj= + 35 °C	P_{dc}	12.5	kW	Tj = + 35 °C	EER_d or $GUE_{c,bin}$ / $AEF_{c,bin}$	3.1	%
Tj = + 30 °C		9.2	kW	Tj = + 30 °C		4.5	%
Tj = + 25 °C		5.9	kW	Tj = + 25 °C		7.4	%
Tj = + 20 °C		4.2	kW	Tj = + 20 °C		10.8	%
Degradation co- efficient for air conditioners**	C_{dc}	0.25	-				
Power consumption in modes other than 'active mode'							
Off mode	P_{OFF}	0.012	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermostat-off mode	P_{TO}	0.012	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air air conditioner: air flow rate, outdoor		7500	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB				
Sound power level, indoor	L_{WA}	49.0	dB	if engine driven: Emissions of nitrogen oxides	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dc} is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

Information requirements for heat pumps

Model(s):	Outdoor Unit	U-125PZH3E8
	Indoor Unit	S-36PY3E×4

Outdoor side heat exchanger of heat pump:	air
Indoor side heat exchanger of heat pump:	air
Indication if the heater is equipped with a supplementary heater:	no
if applicable: driver of compressor: [electric motor or fuel driven, gaseous or liquid fuel, internal or external combustion engine]	electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	152.6	%
Refrigeration load	$P_{design,h}$	9.5	kW				
Declared heating capacity for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj			
Tj = - 7 °C	P_{dh}	8.4	kW	Tj = - 7 °C	COP_d or $GUE_{h,bin}$ / $AEF_{h,bin}$	2.5	%
Tj = + 2 °C		5.1	kW	Tj = + 2 °C		3.8	%
Tj = + 7 °C		3.5	kW	Tj = + 7 °C		5.2	%
Tj = + 12 °C		3.7	kW	Tj = + 12 °C		5.9	%
T_{biv} = bivalent temperature		9.5	kW	T_{biv} = bivalent temperature		2.2	%
T_{OL} = operation limit		6.2	kW	T_{OL} = operation limit		1.6	%
For air-to-water heat pumps: Tj = - 15 °C (if T_{OL} < - 20 °C)		-	kW	For water-to-air heat pumps: Tj = - 15 °C (if T_{OL} < -20 °C)		-	%
Bivalent temperature	T_{biv}	-10	°C	For water-to-air heat pumps: Operation limit temperature	T_{OL}	-20	°C
Degradation co- efficient heat pumps**	C_{dh}	0.25	-				
Power consumption in modes other than 'active mode'				Supplementary heater			
Off mode	P_{OFF}	0.012	kW	back-up heating capacity *	elbu	0.0	kW
Thermostat-off mode	P_{TO}	0.012	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.000	kW	Standby mode	P_{SB}	0.012	kW
Other items							
Capacity control		variable		For air-to-air heat pumps: air flow rate,outdoor		6720	m³/h
Sound power level, outdoor	L_{WA}	70.0	dB	For water-/brine-to-air heat pumps: Rated brine or water flow rate, outdoor side heat exchanger		-	m³/h
Sound power level, indoor	L_{WA}	49.0	dB	Emissions of nitrogen oxides (if applicable)	NO_x***	-	mg/kWh fuel input GCV
				GWP of the refrigerant		675	kg CO_2 eq (100 years)
Contact details	Panasonic Testing Centre, Panasonic Marketing Europe GmbH Winsbergring 15, 22525 Hamburg, Germany						

** If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0,25.
*** from 26 September 2018.
Where information relates to multi-split heat pumps, the test result and performance data may be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.
**** Refer to Information requirements for UnitList

– MEMO –

2. TEST RUN

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2-1. Preparing for Test Run

Check Before Test Run

U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

	Content check
Outdoor unit	• Check that the insulation resistant value is more than 1MΩ. Use the 500V mega-testers to measure the insulation. Do not use the mega-tester for any other circuit except for voltage of 220-230-240V~ .
Power supply cable Connection cable between indoor and outdoor unit Earth wire	• Is the wire set up and connected as described in the instructions? Check for any phase sequence. • Are the wire connection's screws loose? • Is the open and close device / leakage breaker installed? • Is the power supply cable's thickness and length appropriately measured as described in the instructions? • Is it earthed (grounded)? • Are the wire connections for the indoor / outdoor units connected as described in the instructions? Are there any looped wires?
Refrigerant pipe	• Is the piping installed as described in the instructions? • Are the pipes sizes appropriate? • Does the pipe's length adhere to the specifications? • Is the branch pipe slant being appropriately done as described in the instructions? • Was vacuum removal sufficiently carried out? • Was the leak tightness test carried out with nitrogen gas? Use the testing pressure of 4.15 MPa. • Is the piping insulation material appropriately installed? (Insulation material is necessary for both gas and liquid piping.) • Is the 2 / 3-way valve for the liquid side and gas side open?

- Never switch the power supply ON until the installation has completed.
- Supply electrical current through all indoor units and check the voltage.
- Supply electrical current through all the outdoor units and check each inter-phase voltage.
- Before the test run, ensure to check that the 2 / 3-way valve is open. Operating while the valve is closed causes the compressor to fail.

U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

	Content check
Outdoor unit	• Check that the insulation resistant value is more than 1MΩ. Use the 500 V mega-testers to measure the insulation. Check point : between power supply terminal block (L1, L2, L3, or L, N) to earth. Do not use the mega-tester for any other circuit except for voltage of 220-230-240V~ or 380-400-415V 3N~.
Power supply cable Connection cable between outdoor and indoor unit Earth Wire	• Is the wire set up and connected as described in the instructions? Check for any phase sequence. • Are the wire connection's screws loose? • Is the open and close device / leakage breaker installed? • Is the power supply cable's thickness and length appropriately measured as described in the instructions? • Is it earthed (grounded)? • Are the wire connections for the indoor / outdoor units connected as described in the instructions? Are there any looped wires? • Was the "N-phase" surely connected when connecting the power supply wire on the three-phase model? If N-phase is not connected, only the fan may repeat turning ON / OFF without the compressor operating. In that case, check if there is any problem with N-phase connection.
Refrigerant pipe	• Is the piping installed as described in the instructions? • Are the pipes sizes appropriate? • Does the pipe's length adhere to the specifications? • Is the branch pipe slant being appropriately done as described in the instructions? • Was vacuum removal sufficiently carried out? • Was the leak tightness test carried out with nitrogen gas? Use the testing pressure of 4.15 MPa. • Is the piping insulation material appropriately installed? (Insulation material is necessary for both gas and liquid piping.) • Is the 3-way valve for the liquid side and gas side open?

- Always be sure to use a properly insulated tool to operate the short-circuit board. (Do not use your finger.)
- Never switch the power supply ON until the installation has completed.
- Supply electrical current through all indoor units and check the voltage.
- Supply electrical current through all the outdoor units and check each inter-phase voltage.
- Before the test run, ensure to check that the 3-way valve is open. Operating while the valve is closed causes the compressor to fail.

U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

	Content check
Outdoor unit	• Check that the insulation resistant value is more than 1MΩ. Use the 500V mega-testers to measure the insulation. Check point : between power supply terminal block (L, N) to earth. Do not use the mega-tester for any other circuit except for voltage of 220-230-240V~.
Power supply cable Connection cable between outdoor and indoor unit Earth wire	• Is the wire set up and connected as described in the instructions? Check for any phase sequence. • Are the wire connection's screws loose? • Is the open and close device / leakage breaker installed? • Is the power supply cable's thickness and length appropriately measured as described in the instructions? • Is it earthed (grounded)? • Are the wire connections for the indoor / outdoor units connected as described in the instructions? Are there any looped wires?
Refrigerant pipe	• Is the piping installed as described in the instructions? • Are the pipes sizes appropriate? • Does the pipe's length adhere to the specifications? • Is the branch pipe slant being appropriately done as described in the instructions? • Was vacuum removal sufficiently carried out? • Was the leak tightness test carried out with nitrogen gas? Use the testing pressure of 4.15 MPa. • Is the piping insulation material appropriately installed? (Insulation material is necessary for both gas and liquid piping.) • Is the 2/3-way valve for the liquid side and gas side open?

- Always be sure to use a properly insulated tool to operate the printed-circuit board. (Do not use your finger.)
- Never switch the power supply ON until the installation has completed.
- Supply electrical current through all indoor units and check the voltage.
- Supply electrical current through all the outdoor units and check each inter-phase voltage.
- Before the test run, ensure to check that the 3-way valve is open. Operating while the valve is closed causes the compressor to fail.

U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

	Content check
Outdoor unit	• Check that the insulation resistant value is more than 1MΩ. Use the 500V mega-tester to measure the insulation. Check point : between power supply terminal block (L1, L2, L3, or L, N) to earth. Do not use the mega-tester for any other circuit except for voltage of 220-230-240V~ or 380-400-415 V 3N~.
Power supply cable Indoor / outdoor connection wire Earth wire	• Is the wire set up and connected as described in the instructions? Check for any phase sequence. • Are the wire connection's screws loose? • Is the open and close device / leakage breaker installed? • Is the power supply cable's thickness and length appropriately measured as described in the instructions? • Is it earthed (grounded)? • Are the wire connections for the indoor / outdoor units connected as described in the instructions? Are there any looped wires? • Was the "N-phase" surely connected when connecting the power supply wire on the three-phase model? If N-phase is not connected, only the fan may repeat turning ON/OFF without the compressor operating. In that case, check if there is any problem with N-phase connection.
Refrigerant pipe	• Is the piping installed as described in the instructions? • Are the pipes sizes appropriate? • Does the pipe's length adhere to the specifications? • Is the branch pipe slant being appropriately done as described in the instructions? • Was vacuum removal sufficiently carried out? • Was the leak tightness test carried out with nitrogen gas? Use the testing pressure of 4.15 MPa. • Is the piping insulation material appropriately installed? (Insulation material is necessary for both gas and liquid piping.) • Is the 3-way valve for the liquid side and gas side open?

- Always be sure to use a properly insulated tool to operate the short-circuit pin on the circuit board. (Do not use your finger.)
- Never switch the power supply ON until the installation has completed.
- Supply electrical current through all indoor units and check the voltage.
- Supply electrical current through all the outdoor units and check each inter-phase voltage.
- Before the test run, ensure to check that the 3-way valve is open. Operating while the valve is closed causes the compressor to fail.

2-2. Precautions

- Request that the customer be present when the test run is performed.
  At this time, explain the operation manual and have the customer perform the actual steps.

2

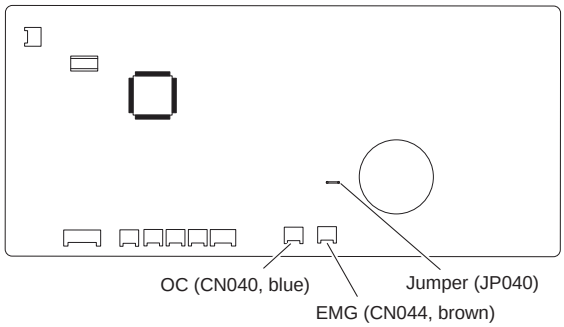
INDOOR UNIT CONTROL PCB

4-Way Cassette Type, Middle Static Pressure Duct Type, Ceiling Type, 4-Way Cassette 60 × 60 Type

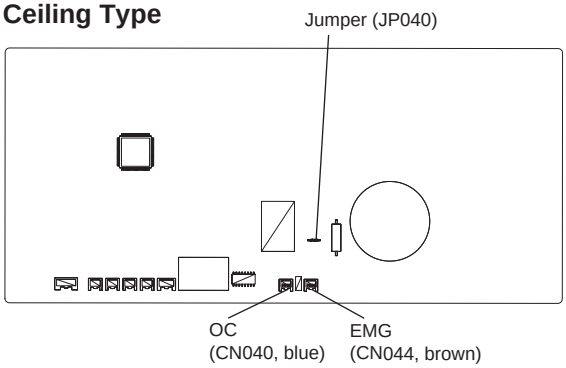
- Check that the 220 – 240 VAC power is not connected to the inter-unit control wiring connector terminal.
  * If 220 – 240 VAC is accidentally applied, the indoor unit control PCB fuse will blow in order to protect the PCB. In this case, make the wiring correctly. Then disconnect the 2P connectors (OC) that are connected to the indoor unit control PCB, and replace them with 2P connectors (EMG). If operation is still not possible after changing the brown connectors, cut the jumper on the indoor unit control PCB. (Be sure to turn the power OFF before performing this work.)

- Be sure to set the external static pressure before performing the test run.

4-Way Cassette Type
Middle Static Pressure Duct Type
4-Way Cassette 60 × 60 Type



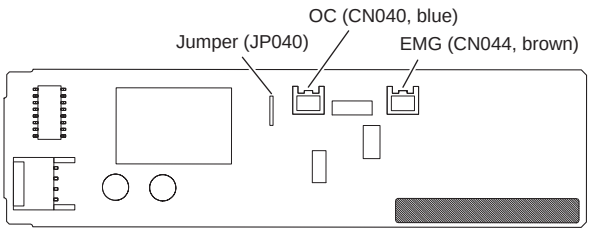
Ceiling Type



Wall Mounted Type

- Check that the 220 – 240 VAC power is not connected to the inter-unit control wiring connector terminal.
  * If 220 – 240 VAC is accidentally applied, the indoor unit control PCB fuse will blow in order to protect the PCB. In this case, make the wiring correctly. Then disconect the 2P connectors (OC) that are connected to the indoor unit control PCB (sub), and replace them with 2P connectors (EMG). If the operation is not activated even if the short circuit pin is reconnected, cut the jumper on the indoor unit control PCB (sub). (Be sure to turn the power OFF before performing this work.)

Wall Mounted Type



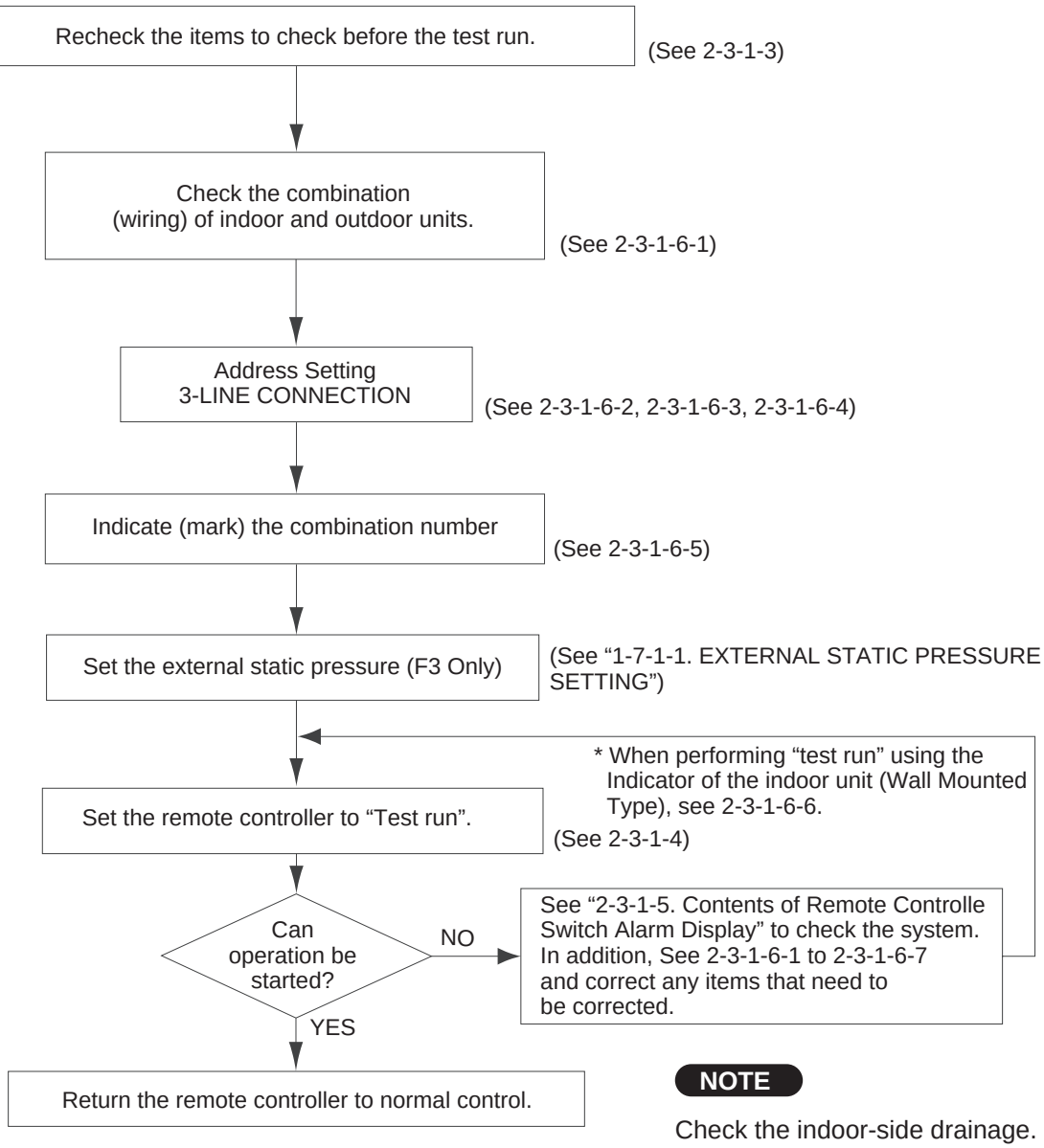
2-3. Indoor Unit

2-3-1. 4-Way Cassette Type, Middle Static Pressure Duct Type, Wall Mounted Type, Ceiling Type, 4-Way Cassette 60 × 60 Type

2-3-1-1. Caution

- **The indoor and outdoor unit control PCB utilizes a semiconductor memory element (EEPROM). The settings required for operation were made at the time of shipment. Only the correct combinations of indoor and outdoor units can be used.**
- **This test run section describes primarily the procedure when using the wired remote controller.**

2-3-1-2. Test Run Procedure



NOTE

Check the indoor-side drainage.

2-3-1-3. Items to Check Before the Test Run

(1) Check that the indoor and outdoor units have correct combination.
(2) Turn the remote power switch ON at least 5 hours in advance in order to energize.
(3) Fully open the closed valves on the liquid tubing and gas tubing sides.
(4) Separate the power supply in accordance with the types of system.
(5) In the case of conditions below, restore the detailed setting code nos. 11, 12, 13, 14 of all indoor units in the system to the factory setting and then set up the auto address setting.
- Indoor unit has been communicated with another outdoor unit before.
- One or more PCBs of indoor units in the system are replaced.
- Detailed setting “Code no.” 11 is different from correct indoor unit capacity.
- Detailed setting “Code no.” 12, 13 or 14 doesn’t match for system.
- E15, E16 or L09 alarm occurs.
- The “Assigning” screen appears on the LCD display for more than 10 minutes.

*** Factory setting**

XX : Code no.	Item	YYYY : Set data
11	Indoor unit capacity	0000
12	System address	0099
13	Indoor unit address	0099
14	Group control address	0099

List of detailed setting items code nos. 11, 12, 13, 14

Code no.	Item	Set data					
		No.	Description		No.	Description	
11	Indoor unit capacity				0003	28	S-25PY3E Y3
		0005	36	S-3650PU3E (36) U3 S-3650PF3E (36) F3 S-3650PK3E (36) K3 S-3650PT3E (36) T3 S-36PY3E Y3	0007	45	S-3650PU3E (45) U3 S-3650PF3E (45) F3 S-3650PK3E (45) K3 S-3650PT3E (45) T3
		0009	56	S-3650PU3E (50) U3 S-3650PF3E (50) F3 S-3650PK3E (50) K3 S-3650PT3E (50) T3 S-50PY3E Y3	0011	71	S-6071PU3E (60) U3 S-6071PF3E (60) F3 S-6010PK3E (60) K3 S-6071PT3E (60) T3 S-60PY3E Y3
		0012	80	S-6071PU3E (71) U3 S-6071PF3E (71) F3 S-6010PK3E (71) K3 S-6071PT3E (71) T3	0015	112	S-1014PU3E (100) U3 S-1014PF3E (100) F3 S-6010PK3E (100) K3 S-1014PT3E (100) T3
		0017	140	S-1014PU3E (125) U3 S-1014PF3E (125) F3 S-1014PT3E (125) T3	0018	160	S-1014PU3E (140) U3 S-1014PF3E (140) F3 S-1014PT3E (140) T3
12	System address	0001	Unit no. 1				
		0002	Unit no. 2				
		0003	Unit no. 3				
		⟩	⟩				
		0030	Unit no. 30				
		0099	Not set				

Code no.	Item	Set data	
		No.	Description
13	Indoor unit address	0001	Unit no. 1
		0002	Unit no. 2
		0003	Unit no. 3
		〵	〵
		0064	Unit no. 64
		0099	Not set
14	Group control address	0000	Individual (1:1 = Indoor unit with no group wiring)
		0001	Main unit (One of the group-control indoor units)
		0002	Sub unit (All group-control indoor units except for main unit)
		0099	Not set

* Code no. is displayed with 6 digits in wired remote controller, CZ-RTC6 series.
In this case, read as follows.
e.g. 11 → 000011

NOTE

The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units. If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings. It is necessary to set the auto address settings once again.

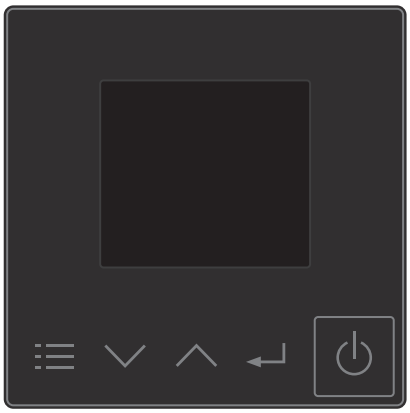
NOTE

In case of checking and changing before setting up the address settings in group connection, turn on only the power of the system to be checked and changed. If you turn on the power to all systems before address settings, the settings of all indoor units may not be seen correctly. After changing, turn off the power supply within 2 minutes or carry out the auto address setting procedures immediately. If the power of the system switched on for a while, the auto address setting may start as a single system and it might not match the multiple systems.

■ How to check and change code nos. 11, 12, 13, 14

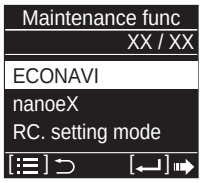
<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.



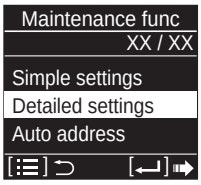
CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

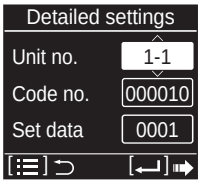


(2) Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” on the LCD display and press the ↵ button.

The “Detailed settings” screen appears on the LCD display.



(3) Select the “Unit no.” by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step (4).

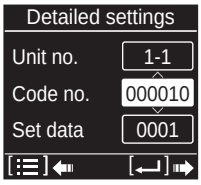


NOTE

If the address setting is not set up correctly, the “ALL” will be displayed in the “Unit no.”.

If the ☰ button is pressed, proceed to Step (6).

(4) Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.



Change the “Code no.” one digit at a time so that it becomes [0000XX] along with the following procedures.

Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

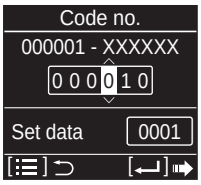


Fig. A

Change the value by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

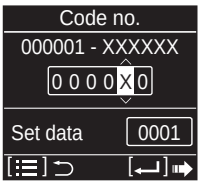


Fig. B

Change the value by pressing the ▽ or △ button.
After changing all digits, press the ↵ button and proceed to Step (5).

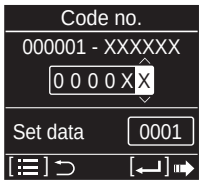


Fig. C

(5) Select one of the Setting Data “YYYY” by pressing the ▽ or △ button.
After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from **Fig. A**.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button twice (the display returns to Step (3)).

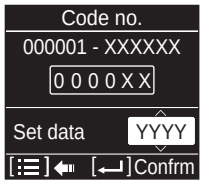


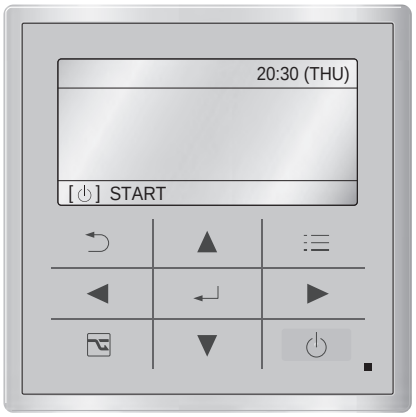
Fig. D

(6) If the ☰ button is pressed under the display Step (3), the following display (Detailed setting-end screen) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button. (Return to normal remote controller display.)



<Procedure of CZ-RTC5B>

Stop the system before performing these steps.



CZ-RTC5B

(1) Keep pressing the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
▲▼ Sel. ◀ ▶ Page [↵] Confirm

(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “8. Detailed settings” on the LCD display and press the ↵ button.

Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
▲▼ Sel. ◀ ▶ Page [↵] Confirm

The “Detailed settings” screen appears on the LCD display.

(3) Select the “Unit no.” by pressing the ▼ or ▲ button for changes.

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
▲ 1-1 ▼	10	0001
▲▼ Sel. ▶ Next		

If the address setting is not set up correctly, the “ALL” will be displayed in the “Unit no.”.

(4) Select the “Code no.” by pressing the ◀ or ▶ button.
Change the “Code no.” to “***XX***” by pressing the ▼ or ▲ button (or keeping it pressed).

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	▲ XX ▼	YYYY
▲▼ Sel. ▶ Next		

(5) Select the “Set data” by pressing the ◀ or ▶ button.
Select one of the Setting Data “YYYY” by pressing the ▼ or ▲ button.
Then press the ↵ button.
If you wish to change the selected indoor unit, follow Step (3).

Detailed settings	20:30 (THU)	
Unit no.	Code no.	Set data
1-1	XX	▲ YYYY ▼
▲▼ Sel. [↵] Confirm		

(6) Press the ⮌ button to finish.
The “Exit detailed settings and restart?” (Detailed setting-end) screen appears on the LCD display.
Select “YES” and press the ↵ button.
(Return to normal remote controller display.)



<Procedure of CZ-RTC4>

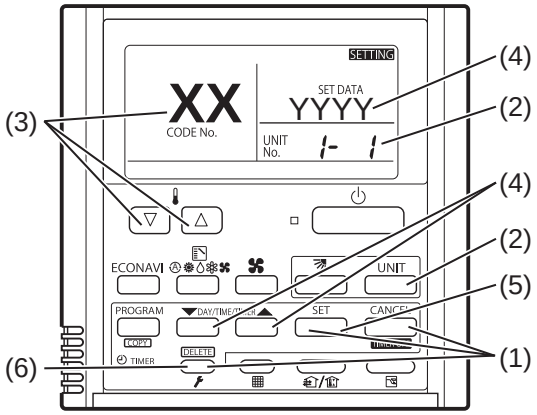
Stop the system before performing these steps.

(1) Press and hold the , SET and CANCEL buttons simultaneously for 4 seconds or longer.

(2) If group control is in effect, press the UNIT button to set. At this time, the fan at the indoor unit begins and select the address (unit no.) of the indoor unit operating.

NOTE

If the address setting is not set up correctly, the "ALL" will be displayed in the "Unit no.".



CZ-RTC4

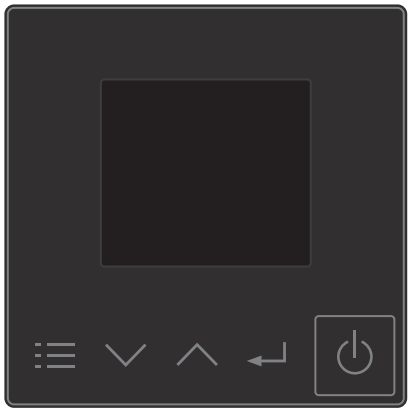
(3) Designate the item code "XX" by adjusting the Temperature Setting ▽/△ buttons.

(4) Press the timer time DAY/ /TIMER buttons to select the desired setting data.

(5) Press the SET button.
(The display stops blinking and remains lit, and setting is completed.)
If you wish to change the selected indoor unit, follow Step (2).

(6) Press the button to return to normal remote controller display.

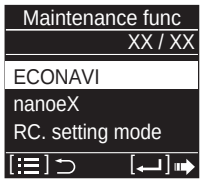
2-3-1-4. Test Run Using the Remote Controller
<Procedure of CZ-RTC6 series>



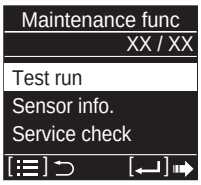
CZ-RTC6 series

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

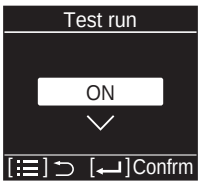
(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



(2) Press the ∨ or ∧ button to see each menu.
Select “Test run” on the LCD display and press the ↵ button.



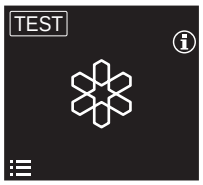
Change the display from “OFF” to “ON” by pressing the ∨ or ∧ button.
Then press the ↵ button.



(3) Press the ☰ button.
“TEST” will be displayed on the LCD display.



(4) Press the ⏻ button. Test run will be started.
Test run setting mode screen appears on the LCD display.



- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, see “2-3-1-5. Contents of Remote Controller Switch Alarm Display”.)

(5) After the test run is completed, proceed from Step (1) and change to “OFF” at Step (2).

- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.

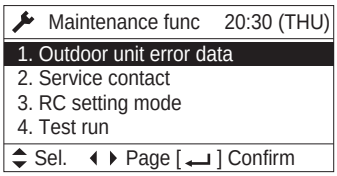
NOTE

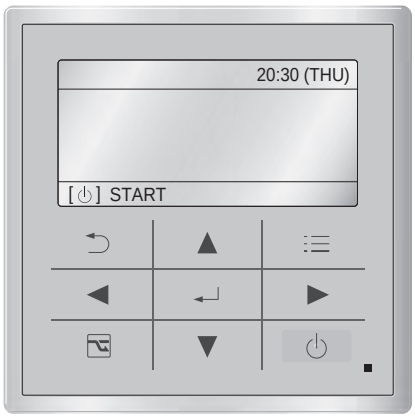
- The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.
- If the test run is performed using the wired remote controller, operation is possible even if the cassette-type ceiling panel has not been installed. (“P09” display does not occur.)

<Procedure of CZ-RTC5B>

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

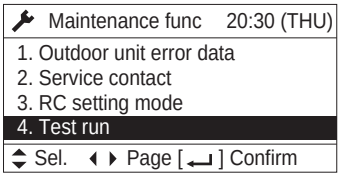
(1) Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



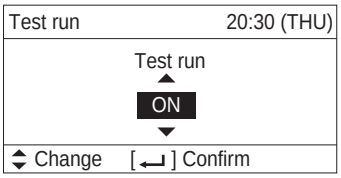


CZ-RTC5B

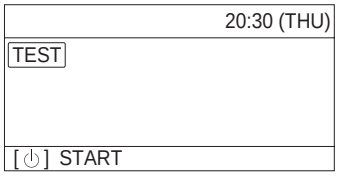
(2) Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select “4. Test run” on the LCD display and press the [↵] button.



Change the display from “OFF” to “ON” by pressing the [▼] or [▲] button. Then press the [↵] button.

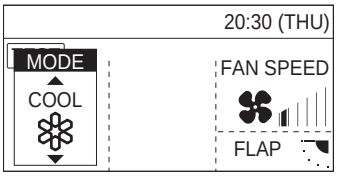


(3) Press the [↩] button. “TEST” will be displayed on the LCD display.

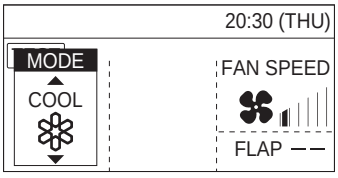


(4) Press the [⏻] button. Test run will be started.
Test run setting mode screen appears on the LCD display.
- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, see “2-3-1-5. Contents of Remote Controller Switch Alarm Display”.)

- **4-Way Cassette Type**
- **Wall Mounted Type**
- **Ceiling Type**
- **4-Way Cassette 60 × 60 Type**



- **Middle Static Pressure Duct Type**



(5) After the test run is completed, proceed from Step (1) and change to “OFF” at Step (2).
- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.

NOTE

- The outdoor units will not operate for approximately 3 minutes after the power is turned ONand after operation is stopped.
- If the test run is performed using the wired remote controller, operation is possible even if the cassette-type ceiling panel has not been installed. (“P09” display does not occur.)

<Procedure of CZ-RTC4>

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

(1) Press the remote controller button for 4 seconds or longer.

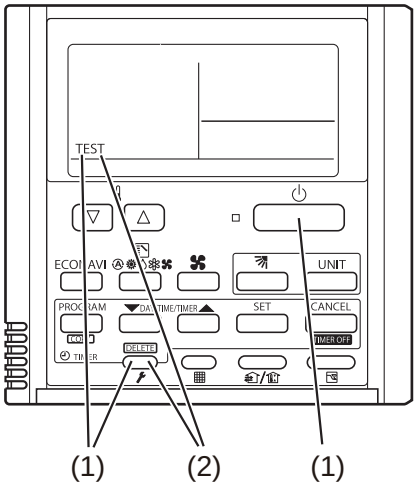
Then press the button.

"TEST" appears on the LCD display while the test run is in progress.

- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, see "2-3-1-5. Contents of Remote Controller Switch Alarm Display")

(2) After the test run is completed, press the button again.
Check that "TEST" disappears from the LCD display.

- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.



CZ-RTC4

NOTE

- The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.
- If the test run is performed using the wired remote controller, operation is possible even if the cassette-type ceiling panel has not been installed. ("P09" display does not occur.)

2-3-1-5. Contents of Remote Controller Switch Alarm Display

U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents		Error location
Remote controller • Indoor Unit	E01	Operating lamp blinking	☼	●	●	Faulty remote controller	• Replace the remote controller
						Disconnection / Contact failure of remote controller wiring	• Correct the remote controller wiring
						CHK (check) pins on the indoor unit control PCB are short circuited	• Remove the short
						In the case of non-group control: • Power supply OFF of outdoor unit • Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out	• Execute auto address setting
						Faulty setting of EEPROM (IC010) on indoor unit	• Replace the indoor unit EEPROM
	E02					Faulty remote controller	• Replace the remote controller
						Wrong wiring of remote controller	• Correct the remote controller wiring
	E03					Error in indoor unit receiving signal from remote controller (central)	• Check the indoor unit control PCB • Check the remote controller wiring • Check the indoor / outdoor control line*
	E04	Standby lamp blinking	●	●	☼	Disconnection / Contact failure of indoor / outdoor control line*	• Check the electrical connection of indoor / outdoor control line* • Replace the indoor unit control PCB • Replace the outdoor unit control PCB • Check the electrical connection of fuse (F302) on indoor unit control PCB In the case of the fuse opened on an indoor unit control PCB, after correcting wiring connection, it substitutes an EMG plug for OC plug
						• Faulty indoor unit control PCB • Faulty outdoor unit control PCB • Communication circuit fuse (F302) on indoor unit control PCB opened	
						• Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB and outdoor unit fan motor are exchanged simultaneously	In the case of the fuse opened on an outdoor unit control PCB, replace both outdoor unit control PCB and outdoor unit fan motor simultaneously
						・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.	・Capacity and address re-setting after correcting the combination of units
	E08	Operating lamp blinking	☼	●	●	Duplication of indoor unit address setting	• Indoor unit address re-setting
	E09					Error because of more than one remote controller setting to main	• Correct the setting
	E14					Duplication of main unit in group control	• Check the indoor / outdoor control line* • Check the indoor unit combination
	E18					• Disconnection of wiring between main unit and additional units • Contact failure of wiring • Faulty indoor unit control PCB (Main or Addition)	• Correct the wiring connection • Replace the wiring • Replace the indoor unit control PCB
	E15	Standby lamp blinking	●	●	☼	Auto address alarm: The total capacity of indoor units is too low.	• Check the indoor / outdoor control line* • Check the indoor and outdoor unit control PCB • Check the power supply • Capacity and address re-setting after correcting the combination of units
	E16					Auto address alarm: • The total capacity of indoor units is too high • The numbers of indoor units is too many	
	F01	Operating and timer lamp blinking alternately	☼	☼	●	Indoor heat exchanger temperature sensor (E1) trouble	• Check the indoor unit heat exchanger temperature sensor (E1) • Check the indoor unit control PCB
	F02					Indoor heat exchanger temperature sensor (E2) trouble	• Check the indoor unit heat exchanger temperature sensor (E2) • Check the indoor unit control PCB
	F10					Indoor air temperature sensor (TA) trouble	• Check the indoor unit air temperature sensor (TA) • Check the indoor unit control PCB
	F29	Operating and timer lamp blinking simultaneously	☼	☼	●	Indoor unit EEPROM trouble	• Check the indoor unit EEPROM • Check the indoor unit control PCB
	L02	Operating and standby lamps blinking simultaneously	☼	●	☼	Setting error, indoor / outdoor unit type / model mismatched	Address re-setting after correcting the combination of units
	L03					Duplication of main indoor unit address in group control	• Correct the group (main and addition)
	L07					Group control wiring is connected to individual control indoor unit	• Correct the indoor unit address
	L08					Indoor unit address is not set	• Correct the indoor unit address
	L09					Indoor unit capacity is not set	• Correct the capacity setting of indoor units

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents	Error location
Remote controller • Indoor Unit	P01	Timer and standby lamp blinking alternately ●	☼	☼	Indoor unit fan motor locked	• Remove the cause
					Indoor unit fan motor layer short	• Replace the fan motor
					Contact failure in thermostat protector circuit	• Correct the wiring
	P09				Faulty wiring connections of (ceiling) indoor unit panel	• Correct the wiring connection • Correct insertion direction of connector. (Hook is outside)
	P10				Faulty drain pump	• Repair / Replace
					Drainage failure	• Correct
					Contact failure of float switch wiring	• Correct the wiring
					High water alarm for the case of Middle static pressure duct (PF) model installed vertically	• Change the setting
	P11				Faulty drain pump	• Repair / Replace
					Drain pump locked	• Remove the cause
	P12				Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	• Remove the cause • Correct the wiring
	P31	Operating and standby lamp blinking alternately ☼	●	☼	Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents	Error location
Outdoor Unit	F04	Operating and timer lamp blinking alternately			Compressor discharge temperature sensor (TD) trouble	• Check the compressor discharge temperature sensor (TD) • Check the outdoor unit control PCB
	F06				Outdoor heat exchanger temperature sensor (C1) trouble	• Check the outdoor unit heat exchanger temperature sensor (C1) • Check the outdoor unit control PCB
	F08	☼	☼	○	Outdoor air temperature sensor (TO) trouble	• Check the outdoor air temperature sensor (TO) • Check the outdoor unit control PCB
	H01	Timer lamp blinking			Primary (input) overcurrent detected	• Check the refrigerant cycle (abnormal overload operation) • Check the outdoor unit control PCB • Check the power supply
	H02				PAM trouble	• Check the outdoor unit control PCB • Compressor locked • Check the power supply
	H03	●	☼	●	Primary current CT sensor failure	• Check the outdoor unit control PCB
	L18	Operating and standby lamps blinking simultaneously			4-way valve locked trouble / operation failure	• Check the 4-way valve • Check the 4-way valve wiring • Check the outdoor unit control PCB
		☼	○	☼		

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation (☼⏻)	Timer (◴)	Standby (❋)	Alarm contents	Error location
Outdoor Unit	P03	Operating and standby lamp blinking alternately			Compressor discharge temperature trouble	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Check the discharge temperature sensor (TD)
	P04				Condensing pressure trouble	• Check the refrigerant cycle • Valve blockage • Heat exchanger obstruction
	P05	☼	●	☼	Open phase detected AC power supply trouble	• Check the power supply • Check the outdoor unit control PCB • Check the compressor wiring, and reactor wiring
	P07				HIC(IPM) temperature trouble	• Check the outdoor unit control PCB • Check the HIC • Compressor locked • Valve blockage
	P13	Timer and standby lamp blinking alternately			Valve error Refrigerant circuit error Wrong installation for refrigerant piping and wiring	• Valve blockage • Check the refrigerant circuit • Check the refrigerant piping and wiring installation
		●	☼	☼		
	P15	Operating and standby lamp blinking alternately			Insufficient gas level detected	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Valve (or refrigerant circuit) blockage
	P16				Compressor overcurrent trouble	• Layer short on the compressor • Compressor locked • Check the outdoor unit control PCB
	P22				Outdoor unit fan motor trouble Outdoor unit fan trouble	• Check the outdoor unit fan motor, connector • Check the outdoor unit control PCB
	P29	☼	●	☼	Inverter compressor trouble	• Layer short on the compressor • Check the outdoor unit control PCB • Check the inverter compressor wiring (Open phase / Reverse phase) • Compressor actuation failure (include lock) • Valve (or refrigerant circuit) blockage
	P31				Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation (☼/⏻)	Timer (◴)	Standby (✺)	Alarm contents		Error location
Remote controller • Indoor Unit	E01	Operating lamp blinking	☼	●	●	Faulty remote controller	• Replace the remote controller
						Disconnection / Contact failure of remote controller wiring	• Correct the remote controller wiring
						CHK (check) pins on the indoor unit control PCB are short circuited	• Remove the short
						In the case of non-group control: • Power supply OFF of outdoor unit • Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out	• Execute auto address setting
						Faulty setting of EEPROM (IC010) on indoor unit	• Replace the indoor unit EEPROM
	E02					Faulty remote controller	• Replace the remote controller
						Wrong wiring of remote controller	• Correct the remote controller wiring
	E03					Error in indoor unit receiving signal from remote controller (central)	• Check the indoor unit control PCB • Check the remote controller wiring • Check the indoor / outdoor control line*
	E04	Standby lamp blinking	●	●	☼	Disconnection / Contact failure of indoor / outdoor control line*	• Check the electrical connection of indoor / outdoor control line* • Replace the indoor unit control PCB • Replace the outdoor unit control PCB • Check the electrical connection of fuse (F302) on indoor unit control PCB In the case of the fuse opened on an indoor unit control PCB, after correcting wiring connection, it substitutes an EMG plug for OC plug
						• Faulty indoor unit control PCB • Faulty outdoor unit control PCB • Communication circuit fuse (F302) on indoor unit control PCB opened	
						• Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB(CR/HIC) and outdoor unit fan motor are exchanged simultaneously	In the case of the fuse opened on an outdoor unit control PCB, replace both outdoor unit control PCB (CR / HIC) and outdoor unit fan motor simultaneously
						・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.	• Capacity and address re-setting after correcting the combination of units
	E08	Operating lamp blinking	☼	●	●	Duplication of indoor unit address setting	• Indoor unit address re-setting
	E09					Error because of more than one remote controller setting to main	• Correct the setting
	E14					Duplication of main unit in group control	• Check the indoor / outdoor control line* • Check the indoor unit combination
	E18					• Disconnection of wiring between main unit and additional units • Contact failure of wiring • Faulty indoor unit control PCB (Main or Addition)	• Correct the wiring connection • Replace the wiring • Replace the indoor unit control PCB
	E15	Standby lamp blinking	●	●	☼	Auto address alarm: The total capacity of indoor units is too low.	• Check the indoor / outdoor control line* • Check the indoor and outdoor unit control PCB • Check the power supply • Capacity and address re-setting after correcting the combination of units
	E16					Auto address alarm: • The total capacity of indoor units is too high • The numbers of indoor units is too many	
	F01	Operating and timer lamp blinking alternately	☼	☼	●	Indoor heat exchanger temperature sensor (E1) trouble	• Check the indoor unit heat exchanger temperature sensor (E1) • Check the indoor unit control PCB
	F02					Indoor heat exchanger temperature sensor (E2) trouble	• Check the indoor unit heat exchanger temperature sensor (E2) • Check the indoor unit control PCB
	F10					Indoor air temperature sensor (TA) trouble	• Check the indoor unit air temperature sensor (TA) • Check the indoor unit control PCB
	F29	Operating and timer lamp blinking simultaneously	☼	☼	●	Indoor unit EEPROM trouble	• Check the indoor unit EEPROM • Check the indoor unit control PCB
	L02	Operating and standby lamps blinking simultaneously	☼	●	☼	Setting error, indoor / outdoor unit type / model mismatched	• Address re-setting after correcting the combination of units
	L03					Duplication of main indoor unit address in group control	• Correct the group (main and addition)
	L07					Group control wiring is connected to individual control indoor unit	• Correct the indoor unit address
	L08					Indoor unit address is not set	• Correct the indoor unit address
	L09					Indoor unit capacity is not set	• Correct the capacity setting of indoor units

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents	Error location
Remote controller • Indoor Unit	P01	Timer and standby lamp blinking alternately: ●	☼	☼	Indoor unit fan motor locked	• Remove the cause
					Indoor unit fan motor layer short	• Replace the fan motor
					Contact failure in thermostat protector circuit	• Correct the wiring
	P09				Faulty wiring connections of (ceiling) indoor unit panel	• Correct the wiring connection • Correct insertion direction of connector. (Hook is outside)
	P10				Faulty drain pump	• Repair / Replace
					Drainage failure	• Correct
					Contact failure of float switch wiring	• Correct the wiring
					High water alarm for the case of Middle static pressure duct (PF) model installed vertically	• Change the setting
	P11				Faulty drain pump	• Repair / Replace
					Drain pump locked	• Remove the cause
	P12				Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	• Remove the cause • Correct the wiring
	P31	Operating and standby lamp blinking alternately: ☼	●	☼	Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents		Error location
Outdoor Unit	E06	Standby lamp blinking	●	●	☼	• Disconnection / Contact failure of indoor / outdoor control line*	Correct the indoor / outdoor control line* • Check the electrical connection of fuse(F302) on indoor unit control PCB In the case of the fuse opened on an indoor unit control PCB, After correcting wiring connection, it substitutes an EMG plug for OC plug.
						• Disconnection of indoor / outdoor control line* • Communication circuit fuse (F302) on indoor unit control PCB opened	
						Indoor unit control PCB address setting error	• Indoor unit address re-setting
	E15	Standby lamp blinking	●	●	☼	Auto address alarm: The total capacity of indoor units is too low.	• Check the power supply • Check the indoor and outdoor unit control PCB • Check the power supply • Capacity and address re-setting after correcting the combination of units
	E16					Auto address alarm: • The total capacity of indoor units is too high • The numbers of indoor units is too many	
	E20					Auto address alarm: No indoor unit connected	
	F04	Operating and timer lamp blinking alternately	☼	☼	○	Compressor discharge temperature sensor (TD) trouble	• Check the Compressor discharge temperature sensor (TD) • Check the outdoor unit control PCB
	F06					Outdoor heat exchanger temperature sensor (C1) trouble	• Check the outdoor unit heat exchanger temperature sensor (C1) • Check the outdoor unit control PCB
	F07					Outdoor heat exchanger temperature sensor (C2) trouble	• Check the outdoor unit heat exchanger temperature sensor (C2) • Check the outdoor unit control PCB
	F08					Outdoor air temperature sensor (TO) trouble	• Check the outdoor air temperature sensor (TO) • Check the outdoor unit control PCB
	F12					Compressor suction temperature sensor (TS) trouble	• Check the Compressor suction temperature sensor (TS) • Check the outdoor unit control PCB
	F31	Operating and timer lamp blinking alternately	☼	☼	○	Outdoor unit EEPROM trouble	• Check the outdoor unit EEPROM • Check the outdoor unit control PCB
	H01	Timer lamp blinking	●	☼	●	Primary (input) overcurrent detected	• Check the Refrigerant cycle (abnormal overload operation) • Check the outdoor unit control PCB • Check the power supply
	H02					PAM trouble	• Check the outdoor unit control PCB • Compressor locked • Check the power supply
	H03					Primary current CT sensor failure	• Check the outdoor unit control PCB • Check the power supply
	H31					HIC trouble DC voltage not detected	• Check the outdoor unit control PCB • Check the HIC • Compressor locked • Valve blockage
	L10	Operating and standby lamps blinking simultaneously	☼	○	☼	Outdoor unit capacity is not set or setting error	• Replace the outdoor unit EEPROM
	L13					Indoor unit type setting error Type of indoor / outdoor units is different	• Replace the indoor unit EEPROM • Check the outdoor unit control PCB • Check the type of IU and OU, and re-set address
	L18					4-way valve locked trouble / operation failure	• Check the 4-way valve • Check the 4-way valve wiring • Check the outdoor unit control PCB
	P03	Operating and standby lamp blinking alternately	☼	●	☼	Compressor discharge temperature trouble	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Check the discharge temperature sensor (TD)
	P04					Compressor discharge pressure trouble	• Check the refrigerant cycle • Valve blockage • Heat exchanger obstruction
	P05					Open phase detected AC power supply trouble	• Check the power supply • Check the outdoor unit control PCB • Check the compressor wiring ,and reactor wiring

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display Operation / Timer / Standby	Alarm contents	Error location
Outdoor Unit	P13	Timerand standby lamp blinking alternately ● ☼ ☼	Valve error Refrigerant circuit error. Wrong installation for refrigerant piping and wiring	• Valve blockage • Check the refrigerant circuit • Check the refrigerant piping and wiring installation
	P15	Operating and standby lamp blinking alternately ☼ ● ☼	Insufficient gas level detected	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Valve (or refrigerant circuit) blockage
	P16		Compressor overcurrent trouble	• Layer short on the compressor • Check the outdoor unit control PCB • Compressor locked
	P22		Outdoor unit fan motor trouble Outdoor unit fan trouble	• Check the outdoor unit fan motor, connector • Check the outdoor unit control PCB
	P29		Inverter compressor trouble	• Layer short on the compressor • Check the outdoor unit control PCB • Check the inverter compressor wiring (Open phase / Reverse phase) • Compressor actuation failure (include lock) • Valve (or refrigerant circuit) blockage
	P31		Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents	Error location
Remote controller • Indoor Unit	E01	Operating lamp blinking	☼	●	●	Faulty remote controller	• Replace the remote controller
						Disconnection / Contact failure of remote controller wiring	• Correct the remote controller wiring
						CHK (check) pins on the indoor unit control PCB are short circuited	• Remove the short
						In the case of non-group control: • Power supply OFF of outdoor unit • Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out	• Execute auto address setting
						Faulty setting of EEPROM (IC010) on indoor unit	• Replace the indoor unit EEPROM
	E02					Faulty remote controller	• Replace the remote controller
						Wrong wiring of remote controller	• Correct the remote controller wiring
	E03					Error in indoor unit receiving signal from remote controller (central)	• Check the indoor unit control PCB • Check the remote controller wiring • Check the indoor / outdoor control line*
	E04	Standby lamp blinking	●	●	☼	Disconnection / Contact failure of indoor / outdoor control line*	• Check the electrical connection of indoor / outdoor control line* • Replace the indoor unit control PCB • Replace the outdoor unit control PCB • Check the electrical connection of fuse (F302) on indoor unit control PCB In the case of the fuse opened on an indoor unit control PCB, after correcting wiring connection, it substitutes an EMG plug for OC plug
						• Faulty indoor unit control PCB • Faulty outdoor unit control PCB • Communication circuit fuse (F302) on indoor unit control PCB opened	
						• Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB and outdoor unit fan motor are exchanged simultaneously	In the case of the fuse opened on an outdoor unit control PCB, replace both outdoor unit control PCB and outdoor unit fan motor simultaneously
						・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.	・Capacity and address re-setting after correcting the combination of units
	E08	Operating lamp blinking	☼	●	●	Duplication of indoor unit address setting	• Indoor unit address re-setting
	E09					Error because of more than one remote controller setting to main	• Correct the setting
	E14					Duplication of main unit in group control	• Check the indoor / outdoor control line* • Check the indoor unit combination
	E18					• Disconnection of wiring between main unit and additional units • Contact failure of wiring • Faulty indoor unit control PCB (Main or Addition)	• Correct the wiring connection • Replace the wiring • Replace the indoor unit control PCB
	E15	Standby lamp blinking	●	●	☼	Auto address alarm: The total capacity of indoor units is too low.	• Check the indoor / outdoor control line* • Check the indoor and outdoor unit control PCB • Check the power supply • Capacity and address re-setting after correcting the combination of units
	E16					Auto address alarm: • The total capacity of indoor units is too high • The numbers of indoor units is too many	
	F01	Operating and timer lamp blinking alternately	☼	☼	●	Indoor heat exchanger temperature sensor (E1) trouble	• Check the indoor unit heat exchanger temperature sensor (E1) • Check the indoor unit control PCB
	F02					Indoor heat exchanger temperature sensor (E2) trouble	• Check the indoor unit heat exchanger temperature sensor (E2) • Check the indoor unit control PCB
	F10					Indoor air temperature sensor (TA) trouble	• Check the indoor unit air temperature sensor (TA) • Check the indoor unit control PCB
	F29	Operating and timer lamp blinking simultaneously	☼	☼	●	Indoor unit EEPROM trouble	• Check the indoor unit EEPROM • Check the indoor unit control PCB
	L02	Operating and standby lamps blinking simultaneously	☼	●	☼	Setting error, indoor / outdoor unit type / model mismatched	Address re-setting after correcting the combination of units
	L03					Duplication of main indoor unit address in group control	• Correct the group (main and addition)
	L07					Group control wiring is connected to individual control indoor unit	• Correct the indoor unit address
	L08					Indoor unit address is not set	• Correct the indoor unit address
	L09					Indoor unit capacity is not set	• Correct the capacity setting of indoor units

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display Operation	Timer	Standby	Alarm contents	Error location
Remote controller • Indoor Unit	P01	Timer and standby lamp blinking alternately ●	☼	☼	Indoor unit fan motor locked	• Remove the cause
					Indoor unit fan motor layer short	• Replace the fan motor
					Contact failure in thermostat protector circuit	• Correct the wiring
	P09				Faulty wiring connections of (ceiling) indoor unit panel	• Correct the wiring connection • Correct insertion direction of connector. (Hook is outside)
	P10				Faulty drain pump	• Repair / Replace
					Drainage failure	• Correct
					Contact failure of float switch wiring	• Correct the wiring
					High water alarm for the case of Middle static pressure duct (PF) model installed vertically	• Change the setting
	P11				Faulty drain pump	• Repair / Replace
					Drain pump locked	• Remove the cause
	P12				Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	• Remove the cause • Correct the wiring
	P31	Operating and standby lamp blinking alternately ☼	●	☼	Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation (☼⏻)	Timer (◴)	Standby (✱)	Alarm contents	Error location
Outdoor Unit	F04	Operating and timer lamp blinking alternately			Compressor discharge temperature sensor (TD) trouble	• Check the compressor discharge temperature sensor (TD) • Check the outdoor unit control PCB
	F06				Outdoor heat exchanger temperature sensor (C1) trouble	• Check the outdoor unit heat exchanger temperature sensor (C1) • Check the outdoor unit control PCB
	F08	☼	☼	○	Outdoor air temperature sensor (TO) trouble	• Check the outdoor air temperature sensor (TO) • Check the outdoor unit control PCB
	H01	Timer lamp blinking			Primary (input) overcurrent detected	• Check the refrigerant cycle (abnormal overload operation) • Check the outdoor unit control PCB • Check the power supply
	H02	●	☼	●	PAM trouble	• Check the outdoor unit control PCB • Compressor locked • Check the power supply
	H03				Primary current CT sensor failure	• Check the outdoor unit control PCB
	L18	Operating and standby lamps blinking simultaneously ☼	○	☼	4-way valve locked trouble / operation failure	• Check the 4-way valve • Check the 4-way valve wiring • Check the outdoor unit control PCB

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation (☼⏻)	Timer (◴)	Standby (❋)	Alarm contents	Error location
Outdoor Unit	P03	Operating and standby lamp blinking alternately			Compressor discharge temperature trouble	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Check the discharge temperature sensor (TD)
	P04				Condensing pressure trouble	• Check the refrigerant cycle • Valve blockage • Heat exchanger obstruction
	P05	☼	●	☼	Open phase detected AC power supply trouble	• Check the power supply • Check the outdoor unit control PCB • Check the compressor wiring, and reactor wiring
	P07				HIC(IPM) temperature trouble	• Check the outdoor unit control PCB • Check the HIC • Compressor locked • Valve blockage
	P13	Timer and standby lamp blinking alternately			Valve error Refrigerant circuit error Wrong installation for refrigerant piping and wiring	• Valve blockage • Check the refrigerant circuit • Check the refrigerant piping and wiring installation
		●	☼	☼		
	P15	Operating and standby lamp blinking alternately			Insufficient gas level detected	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Valve (or refrigerant circuit) blockage
	P16				Compressor overcurrent trouble	• Layer short on the compressor • Compressor locked • Check the outdoor unit control PCB
	P22				Outdoor unit fan motor trouble Outdoor unit fan trouble	• Check the outdoor unit fan motor, connector • Check the outdoor unit control PCB
	P29	☼	●	☼	Inverter compressor trouble	• Layer short on the compressor • Check the outdoor unit control PCB • Check the inverter compressor wiring (Open phase / Reverse phase) • Compressor actuation failure (include lock) • Valve (or refrigerant circuit) blockage
	P31				Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents	Error location
Remote controller • Indoor Unit	E01	Operating lamp blinking ☼	●	●	Faulty remote controller	• Replace the remote controller
					Disconnection / Contact failure of remote controller wiring	• Correct the remote controller wiring
					CHK (check) pins on the indoor unit control PCB are short circuited	• Remove the short
					In the case of non-group control: • Power supply OFF of outdoor unit • Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out	• Execute auto address setting
					Faulty setting of EEPROM (IC010) on indoor unit	• Replace the indoor unit EEPROM
	E02				Faulty remote controller	• Replace the remote controller
					Wrong wiring of remote controller	• Correct the remote controller wiring
	E03				Error in indoor unit receiving signal from remote controller (central)	• Check the indoor unit control PCB • Check the remote controller wiring • Check the indoor / outdoor control line*
	E04	Standby lamp blinking ●	●	☼	Disconnection / Contact failure of indoor / outdoor control line*	• Check the electrical connection of indoor / outdoor control line* • Replace the indoor unit control PCB • Replace the outdoor unit control PCB • Check the electrical connection of fuse (F302) on indoor unit control PCB In the case of the fuse opened on an indoor unit control PCB, after correcting wiring connection, it substitutes an EMG plug for OC plug
					• Faulty indoor unit control PCB • Faulty outdoor unit control PCB • Communication circuit fuse (F302) on indoor unit control PCB opened	
					• Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB(CR/HIC) and outdoor unit fan motor are exchanged simultaneously	In the case of the fuse opened on an outdoor unit control PCB, replace both outdoor unit control PCB (CR / HIC) and outdoor unit fan motor simultaneously
					・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.	• Capacity and address re-setting after correcting the combination of units
	E08	Operating lamp blinking ☼	●	●	Duplication of indoor unit address setting	• Indoor unit address re-setting
	E09				Error because of more than one remote controller setting to main	• Correct the setting
	E14				Duplication of main unit in group control	• Check the indoor / outdoor control line* • Check the indoor unit combination
	E18				• Disconnection of wiring between main unit and additional units • Contact failure of wiring • Faulty indoor unit control PCB (Main or Addition)	• Correct the wiring connection • Replace the wiring • Replace the indoor unit control PCB
	E15	Standby lamp blinking ●	●	☼	Auto address alarm: The total capacity of indoor units is too low.	• Check the indoor / outdoor control line* • Check the indoor and outdoor unit control PCB • Check the power supply • Capacity and address re-setting after correcting the combination of units
	E16				Auto address alarm: • The total capacity of indoor units is too high • The numbers of indoor units is too many	
	F01	Operating and timer lamp blinking alternately ☼	☼	●	Indoor heat exchanger temperature sensor (E1) trouble	• Check the indoor unit heat exchanger temperature sensor (E1) • Check the indoor unit control PCB
	F02				Indoor heat exchanger temperature sensor (E2) trouble	• Check the indoor unit heat exchanger temperature sensor (E2) • Check the indoor unit control PCB
	F10				Indoor air temperature sensor (TA) trouble	• Check the indoor unit air temperature sensor (TA) • Check the indoor unit control PCB
	F29	Operating and timer lamp blinking simultaneously ☼	☼	●	Indoor unit EEPROM trouble	• Check the indoor unit EEPROM • Check the indoor unit control PCB
	L02	Operating and standby lamps blinking simultaneously ☼	●	☼	Setting error, indoor / outdoor unit type / model mismatched	• Address re-setting after correcting the combination of units
	L03				Duplication of main indoor unit address in group control	• Correct the group (main and addition)
	L07				Group control wiring is connected to individual control indoor unit	• Correct the indoor unit address
	L08				Indoor unit address is not set	• Correct the indoor unit address
	L09				Indoor unit capacity is not set	• Correct the capacity setting of indoor units

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

2

Abnormal display		Wireless remote controller receiver display: Operation (☼/⏻)	Timer (◴)	Standby (❄)	Alarm contents	Error location
Remote controller • Indoor Unit	P01	Timer and standby lamp blinking alternately			Indoor unit fan motor locked	• Remove the cause
					Indoor unit fan motor layer short	• Replace the fan motor
					Contact failure in thermostat protector circuit	• Correct the wiring
	P09				Faulty wiring connections of (ceiling) indoor unit panel	• Correct the wiring connection • Correct insertion direction of connector. (Hook is outside)
	P10				Faulty drain pump	• Repair / Replace
					Drainage failure	• Correct
					Contact failure of float switch wiring	• Correct the wiring
		●	☼	☼	High water alarm for the case of Middle static pressure duct (PF) model installed vertically	• Change the setting
	P11				Faulty drain pump	• Repair / Replace
					Drain pump locked	• Remove the cause
	P12				Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	• Remove the cause • Correct the wiring
	P31	Operating and standby lamp blinking alternately			Indoor unit in group control trouble	• Repair indoor unit which blinking alarm
		☼	●	☼		

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display: Operation	Timer	Standby	Alarm contents		Error location
Outdoor Unit	E06	Standby lamp blinking	●	●	☼	• Disconnection / Contact failure of indoor / outdoor control line*	Correct the indoor / outdoor control line* • Check the electrical connection of fuse(F302) on indoor unit control PCB In the case of the fuse opened on an indoor unit control PCB, After correcting wiring connection, it substitutes an EMG plug for OC plug.
						• Disconnection of indoor / outdoor control line* • Communication circuit fuse (F302) on indoor unit control PCB opened	
						Indoor unit control PCB address setting error	• Indoor unit address re-setting
	E15	Standby lamp blinking	●	●	☼	Auto address alarm: The total capacity of indoor units is too low.	• Check the power supply • Check the indoor and outdoor unit control PCB • Check the power supply • Capacity and address re-setting after correcting the combination of units
	E16					Auto address alarm: • The total capacity of indoor units is too high • The numbers of indoor units is too many	
	E20					Auto address alarm: No indoor unit connected	
	F04	Operating and timer lamp blinking alternately	☼	☼	○	Compressor discharge temperature sensor (TD) trouble	• Check the Compressor discharge temperature sensor (TD) • Check the outdoor unit control PCB
	F06					Outdoor heat exchanger temperature sensor (C1) trouble	• Check the outdoor unit heat exchanger temperature sensor (C1) • Check the outdoor unit control PCB
	F07					Outdoor heat exchanger temperature sensor (C2) trouble	• Check the outdoor unit heat exchanger temperature sensor (C2) • Check the outdoor unit control PCB
	F08					Outdoor air temperature sensor (TO) trouble	• Check the outdoor air temperature sensor (TO) • Check the outdoor unit control PCB
	F12					Compressor suction temperature sensor (TS) trouble	• Check the Compressor suction temperature sensor (TS) • Check the outdoor unit control PCB
	F31	Operating and timer lamp blinking alternately	☼	☼	○	Outdoor unit EEPROM trouble	• Check the outdoor unit EEPROM • Check the outdoor unit control PCB
	H01	Timer lamp blinking	●	☼	●	Primary (input) overcurrent detected	• Check the Refrigerant cycle (abnormal overload operation) • Check the outdoor unit control PCB • Check the power supply
	H02					PAM trouble	• Check the outdoor unit control PCB • Compressor locked • Check the power supply
	H03					Primary current CT sensor failure	• Check the outdoor unit control PCB • Check the power supply
	H31					HIC trouble DC voltage not detected	• Check the outdoor unit control PCB • Check the HIC • Compressor locked • Valve blockage
	L10	Operating and standby lamps blinking simultaneously	☼	○	☼	Outdoor unit capacity is not set or setting error	• Replace the outdoor unit EEPROM
	L13					Indoor unit type setting error Type of indoor / outdoor units is different	• Replace the indoor unit EEPROM • Check the outdoor unit control PCB • Check the type of IU and OU, and re-set address
	L18					4-way valve locked trouble / operation failure	• Check the 4-way valve • Check the 4-way valve wiring • Check the outdoor unit control PCB
	P03	Operating and standby lamp blinking alternately	☼	●	☼	Compressor discharge temperature trouble	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Check the discharge temperature sensor (TD)
	P04					Compressor discharge pressure trouble	• Check the refrigerant cycle • Valve blockage • Heat exchanger obstruction
	P05					Open phase detected AC power supply trouble	• Check the power supply • Check the outdoor unit control PCB • Check the compressor wiring ,and reactor wiring

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

Abnormal display		Wireless remote controller receiver display Operation / Timer / Standby	Alarm contents	Error location
Outdoor Unit	P13	Timerand standby lamp blinking alternately ● ☼ ☼	Valve error Refrigerant circuit error. Wrong installation for refrigerant piping and wiring	• Valve blockage • Check the refrigerant circuit • Check the refrigerant piping and wiring installation
	P15	Operating and standby lamp blinking alternately ☼ ● ☼	Insufficient gas level detected	• Check the refrigerant cycle (gas leak) • Trouble with the electronic expansion valve • Valve (or refrigerant circuit) blockage
	P16		Compressor overcurrent trouble	• Layer short on the compressor • Check the outdoor unit control PCB • Compressor locked
	P22		Outdoor unit fan motor trouble Outdoor unit fan trouble	• Check the outdoor unit fan motor, connector • Check the outdoor unit control PCB
	P29		Inverter compressor trouble	• Layer short on the compressor • Check the outdoor unit control PCB • Check the inverter compressor wiring (Open phase / Reverse phase) • Compressor actuation failure (include lock) • Valve (or refrigerant circuit) blockage
	P31		Indoor unit in group control trouble	• Repair indoor unit which blinking alarm

2-3-1-6. System Control

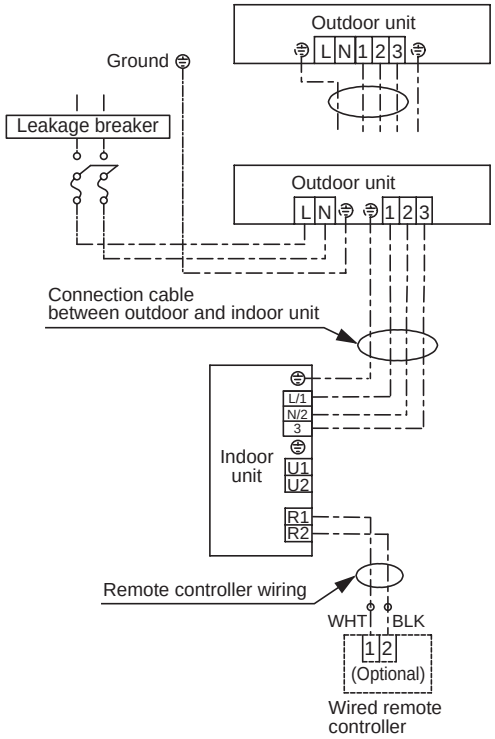
System control refers to the link wiring connection for control of simultaneous-operation multi systems, group control, and main-sub remote controller control.

2-3-1-6-1. Basic wiring diagram : 3-LINE CONNECTION

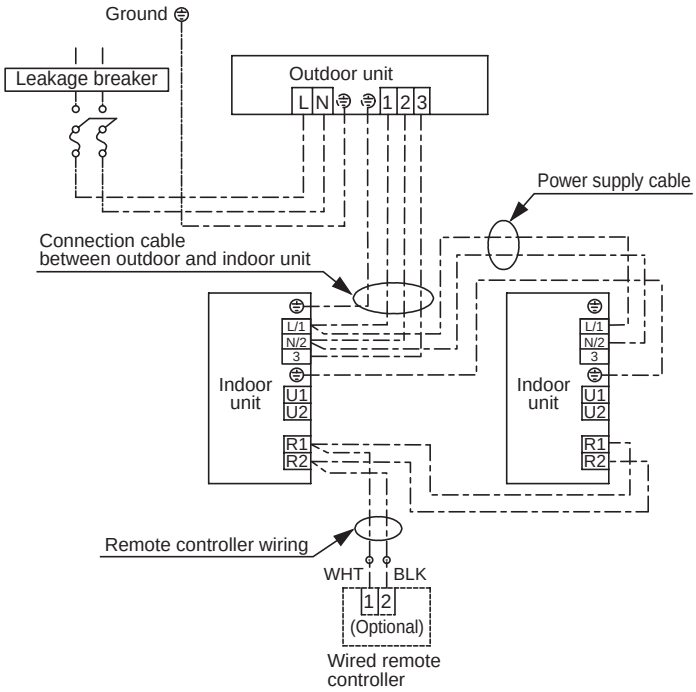
- Be careful to avoid miswiring when connecting the wires. (Miswiring will damage the units.)

(for 1-phase Outdoor unit)

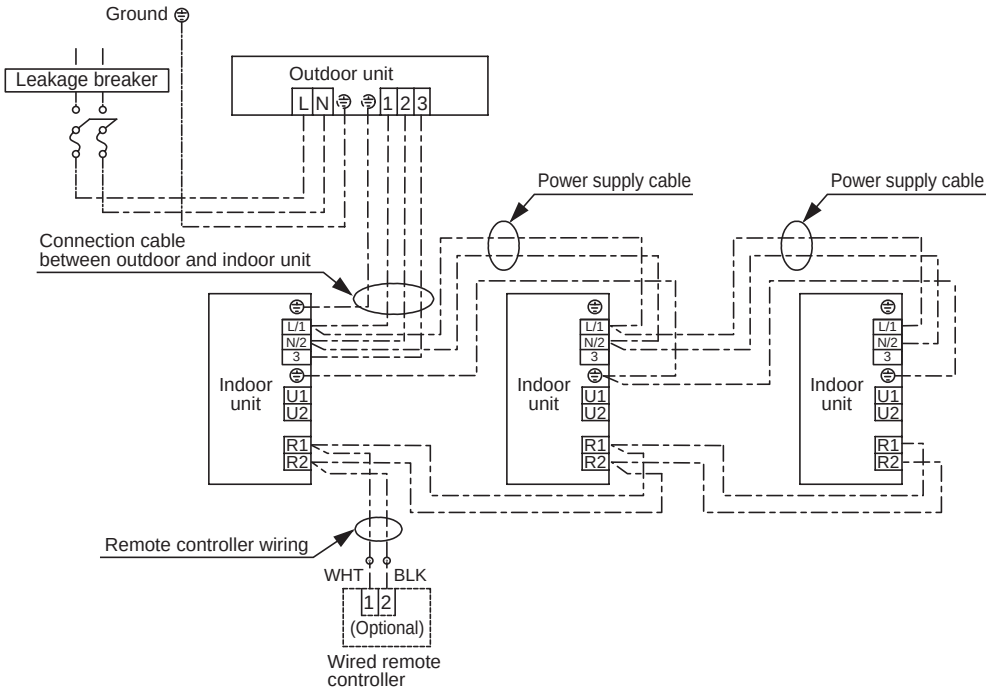
(Example of SINGLE type)



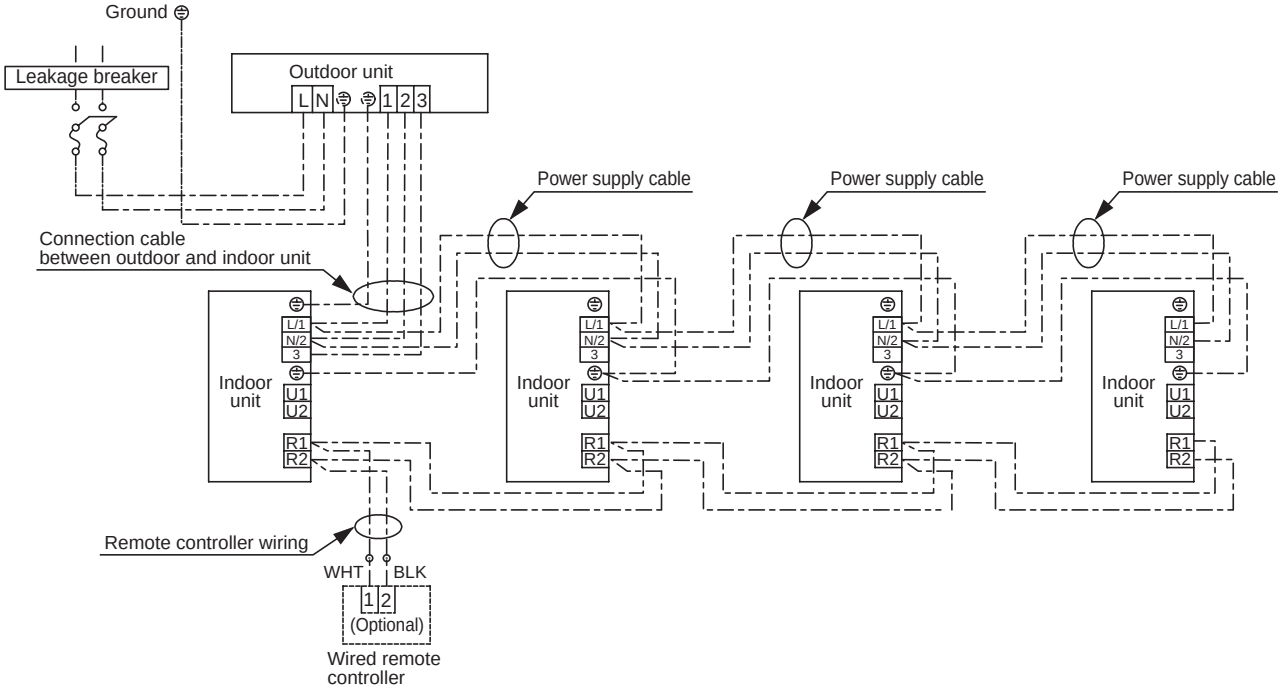
(Example of TWIN type)



(Example of TRIPLE type)

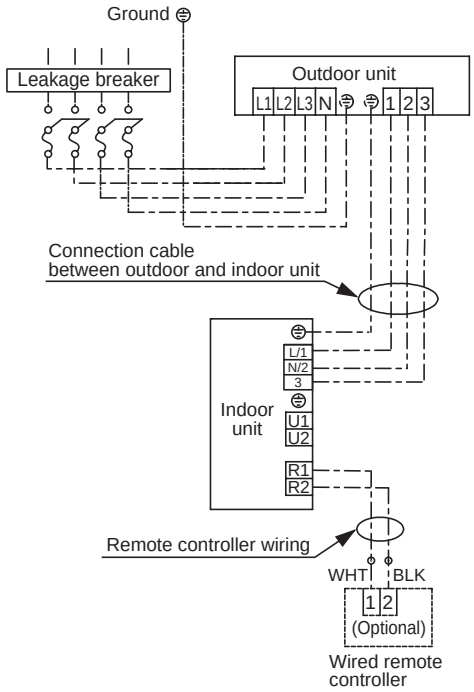


(Example of DOUBLE TWIN type)

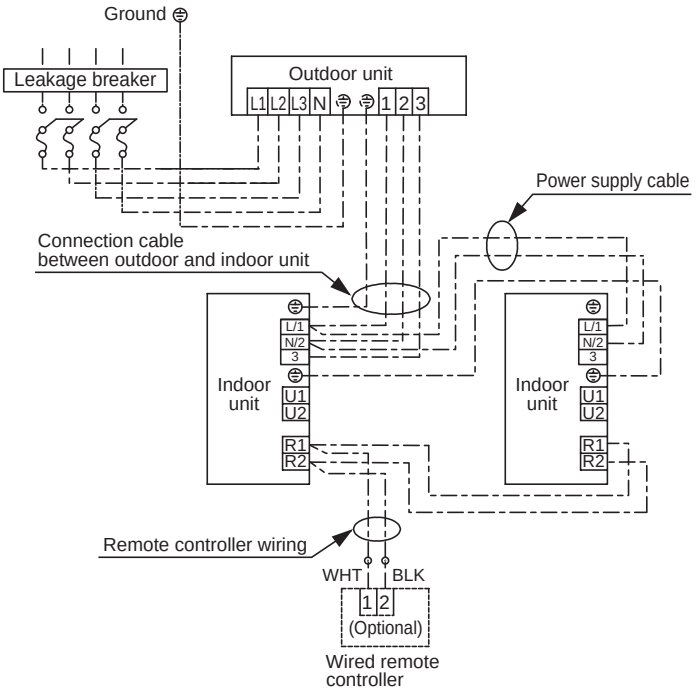


(for 3-phase Outdoor unit)

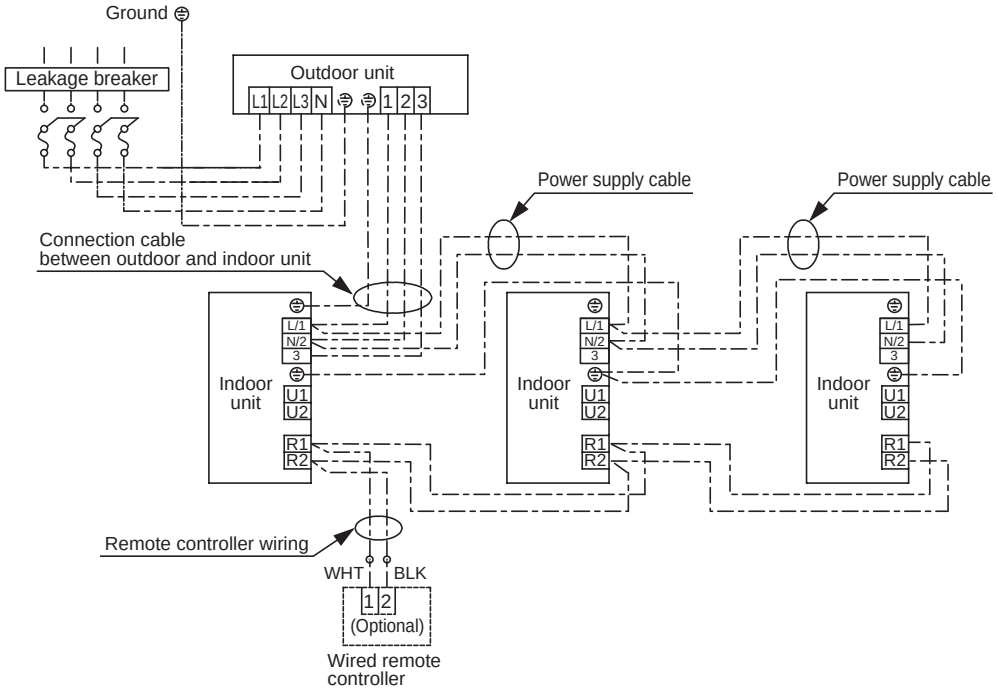
(Example of SINGLE type)



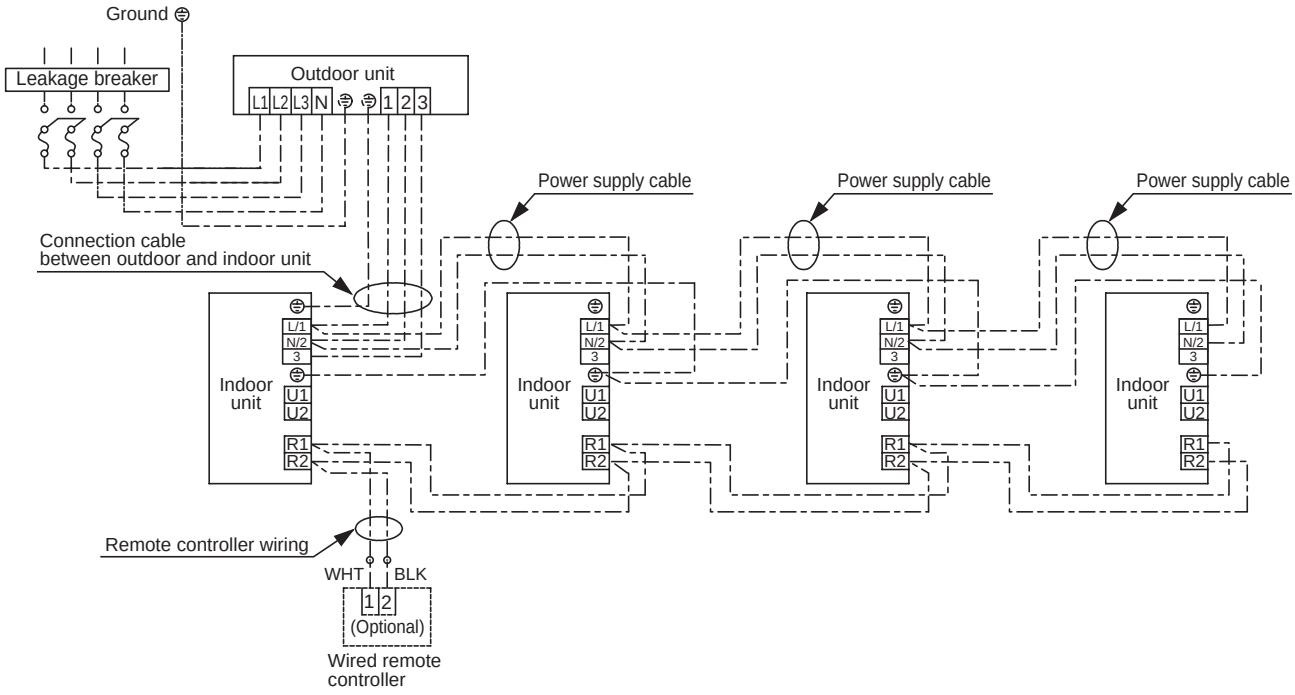
(Example of TWIN type)



(Example of TRIPLE type)



(Example of DOUBLE TWIN type)



(Wiring procedure)

(1) Connect the remote controller to the indoor unit remote controller wiring terminal plate (R1, R2).
(Remote controller wiring)

(2) Connect the indoor units (L / 1, N / 2, 3) and the outdoor units (1, 2, 3).
Connect the remote controller communication wiring to the indoor units (R1, R2) for each refrigerant system.
(Remote controller wiring)

(3) Connect the remote controller communication wiring (2 wires) from the remote controller wiring terminal plate (R1, R2) on the indoor unit (unit where the remote controller is connected) to the remote controller terminal plates (R1, R2) on the other indoor units. (Remote controller communication wiring)

(4) Turn ON both the indoor and outdoor unit power and perform auto address setting from the remote controller.
(For the auto address setting procedure, see 2-3-1-6-3.)

NOTE

* Be sure to use the indoor unit temperature sensor (body sensor) when using this control. (Status at shipment.)

2-3-1-6-2. Address Setting : 3-LINE CONNECTION

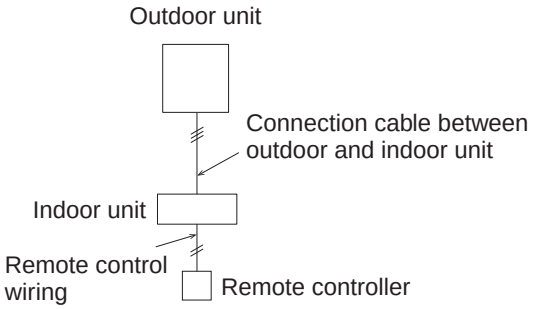
NOTE

The displays of the earth, outdoor unit power supply wiring and earth leakage circuit breaker are omitted.

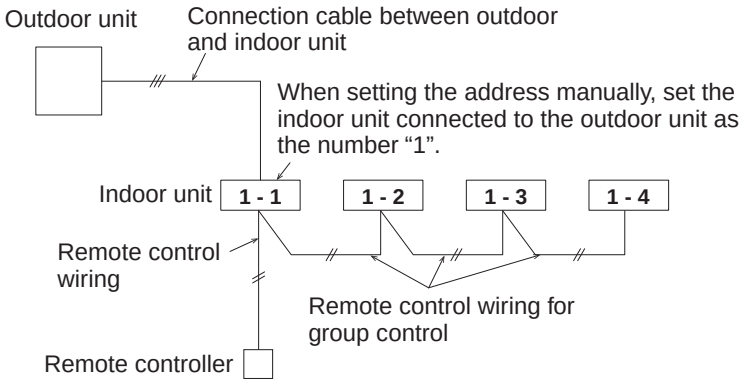
2-3-1-6-2-1. Basic connection 1 : Single type and simultaneous multiple operations

- **Simultaneous multiple operations: It is possible to operate maximum 4 (double-twin) indoor units within one outdoor unit. (Only specified indoor unit combination.**
  Independent operation is not possible by connecting an individual remote controller.)
- **It is not necessary to make setting of the refrigerant system address.**
- **When turning on all indoor and outdoor units, the auto address will start.**
  It takes maximum 10 minutes.
- **When the auto address setting is completed, wait at least 1 minute and 30 seconds.**
  Then start the operation.

Single type



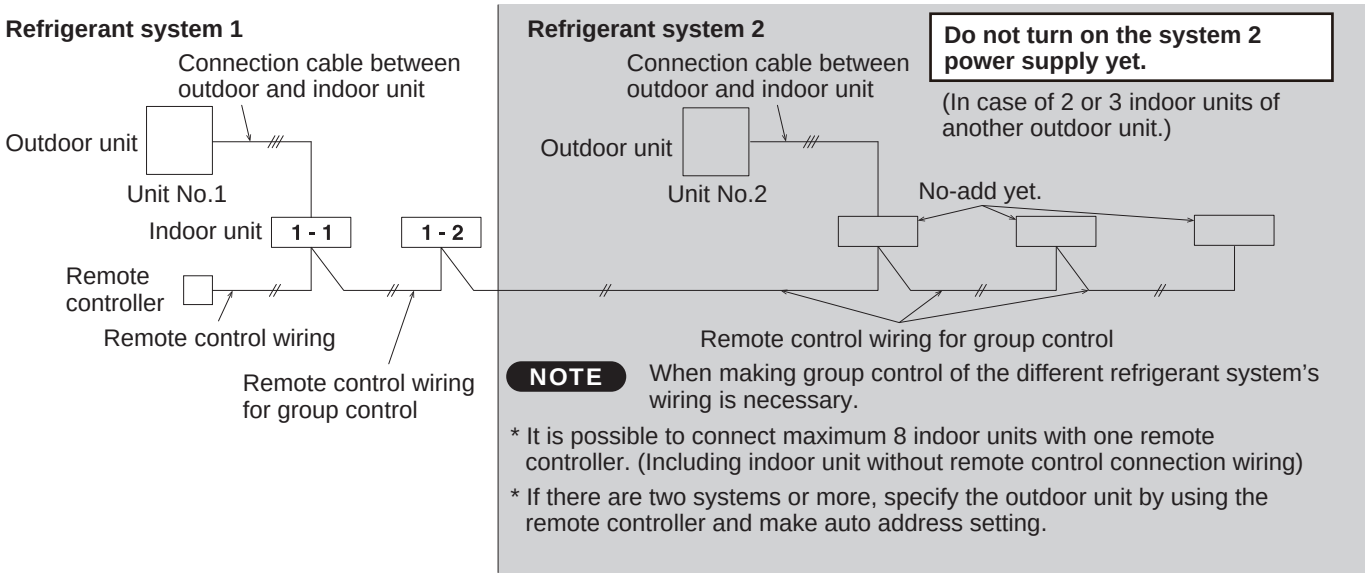
Simultaneous multiple (double-twin) operations



2-3-1-6-2-2. Basic connection 2 : Group control operation (when not using integrated control system)

- **Turn on the system 1 indoor and outdoor units (earth leakage circuit breaker) and make indoor unit auto address setting. (See 2-3-1-6-3)**

Two group control

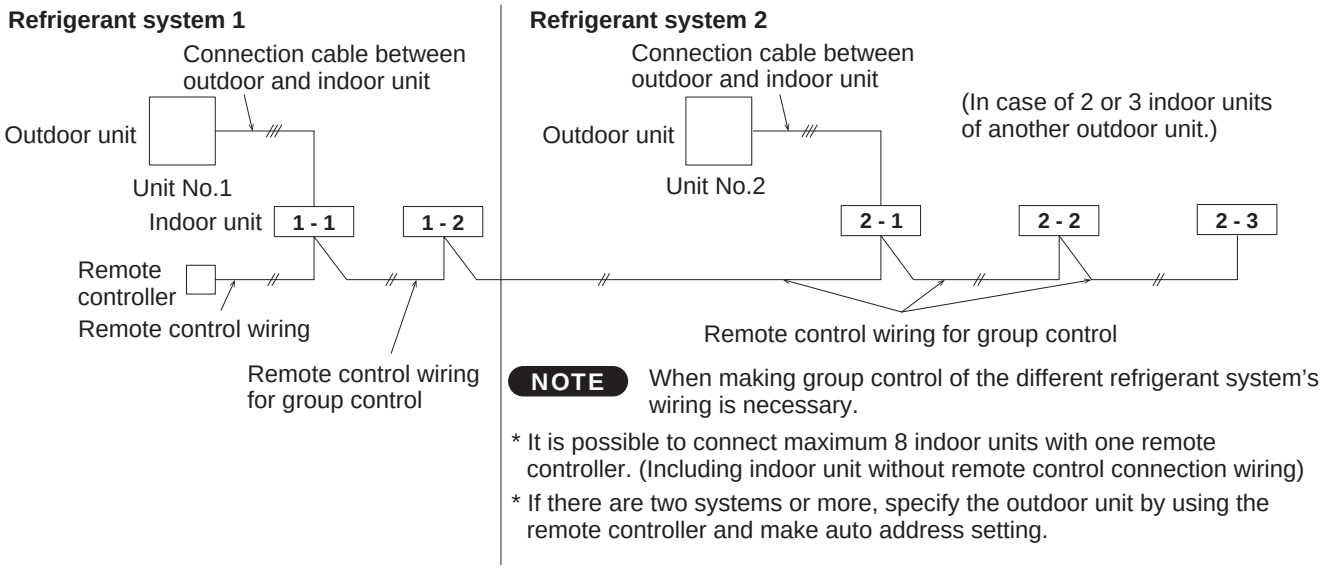


NOTE When making group control of the different refrigerant system's wiring is necessary.

* It is possible to connect maximum 8 indoor units with one remote controller. (Including indoor unit without remote control connection wiring)
* If there are two systems or more, specify the outdoor unit by using the remote controller and make auto address setting.

- **While keeping the system 1 power on, turn on the system 2 indoor and outdoor units (earth leakage circuit breaker).**
  Then make auto address setting of the indoor unit. (See 2-3-1-6-3)

Two group control

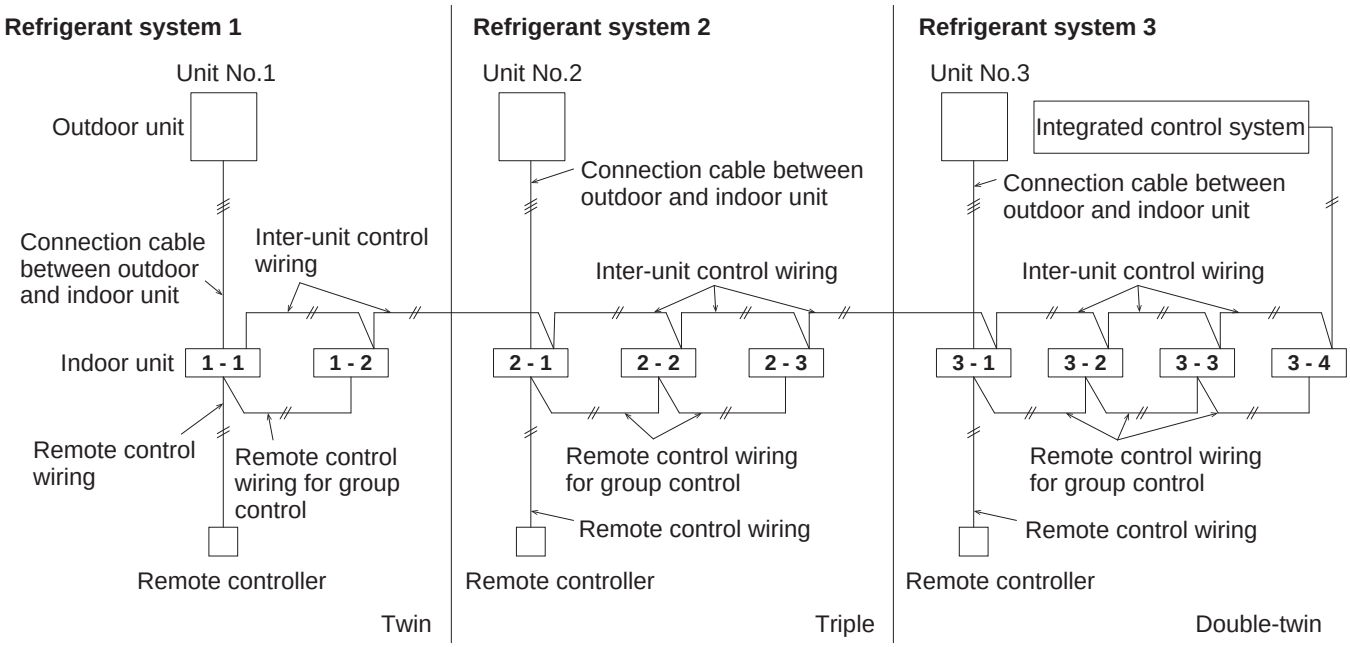


NOTE When making group control of the different refrigerant system's wiring is necessary.

* It is possible to connect maximum 8 indoor units with one remote controller. (Including indoor unit without remote control connection wiring)
* If there are two systems or more, specify the outdoor unit by using the remote controller and make auto address setting.

2-3-1-6-2-3. Basic connection 3 : Example of link wiring (when using integrated control system)

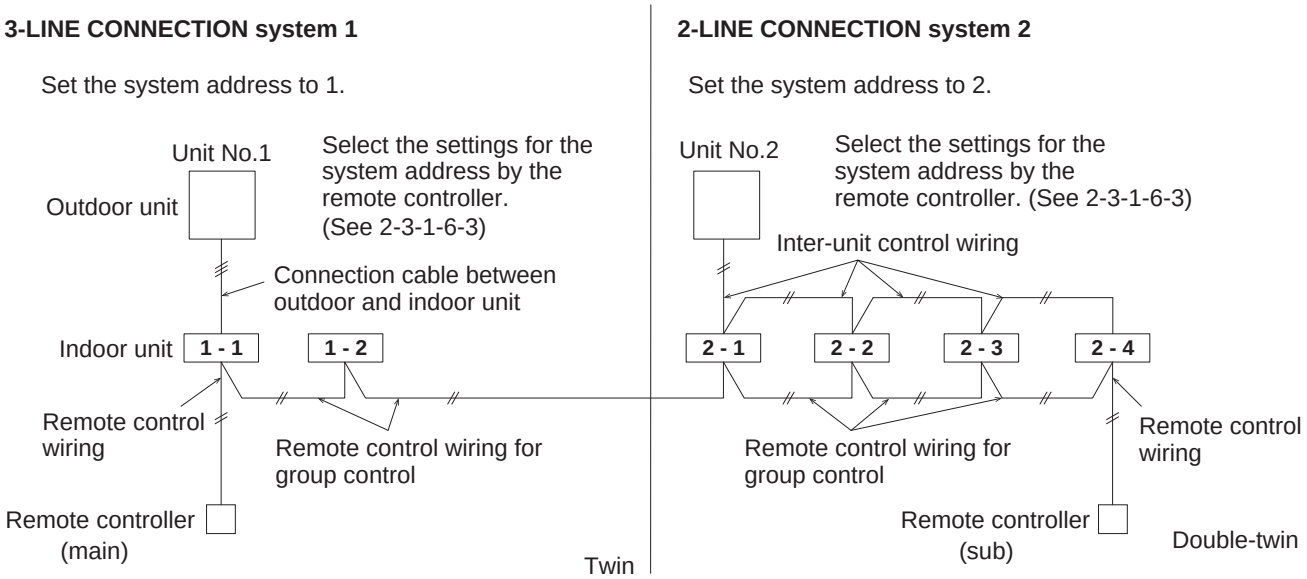
- **Turn on the power of each system, specify a different system address for each system and make auto address setting from each remote controller. (See 2-3-1-6-3)**



* It is possible to connect maximum 8 indoor units with one remote controller.

2-3-1-6-2-4. Basic connection 4 : Group control with different refrigerant unit

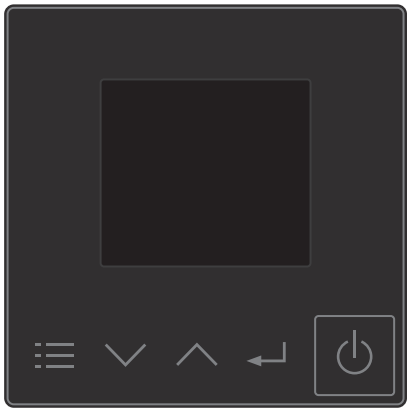
- *** Remote control inter-unit control wiring is necessary in all indoor units. Make auto address setting following the procedure "2-3-1-6-2-2. Basic connection 2".**



* If two (2) remote controllers are used, one (1) remote controller is set to "main" and the other is set to "sub". (See 2-3-1-6-7)

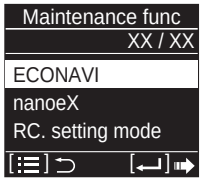
* In the case of 2-line connection system, auto address setting from the outdoor unit can be also made by specifying address with the rotary switch and short-circuiting the auto address pin. (See 2-3-1-6-4)

2-3-1-6-3. Auto Address Setting Using the Remote Controller
<Procedure of CZ-RTC6 series>

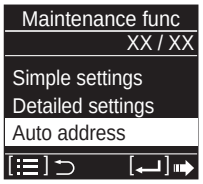


CZ-RTC6 series

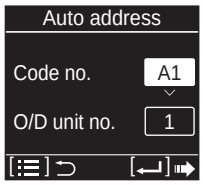
(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



(2) Press the ∨ or ∧ button to see each menu.
Select “Auto address” on the LCD display and press the ↵ button.

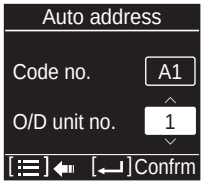


(3) The “Auto address” screen appears on the LCD display.
Select the “Code no.” to “A1” by pressing the ∨ or ∧ button.

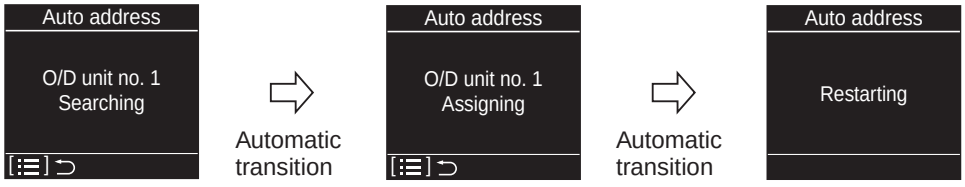


After selecting “Code no.”, press the ↵ button and proceed to Step (4).
If the ☰ button is pressed, proceed to Step (5).

(4) Select one of the “O/D unit no.” for auto address by pressing the ∨ or ∧ button.

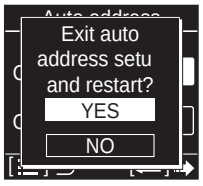


After selecting “O/D unit no.”, press the ↵ button.



Approximately 10 minutes are required.
When auto address setting is completed, the units return to normal stopped status.

(5) If the ☰ button is pressed under the display Step (3), the following display (Auto address-end screen) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.



<Procedure of CZ-RTC5B>

(1) Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



CZ-RTC5B

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
↕ Sel. ◀ ▶ Page [↵] Confirm

(2) Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select “9. Auto address” on the LCD display and press the [↵] button.

Maintenance func 20:30 (THU)
9. Auto address
10. Set elec. consumption
11. Set touch key
12. Check touch key
↕ Sel. ◀ ▶ Page [↵] Confirm

(3) The “Auto address” screen appears on the LCD display.
Change the “Code no.” to “A1” by pressing the [▼] or [▲] button.

Auto address	20:30 (THU)
Code no.	O/D unit no.
▲ A1 ▼	1
↕ Sel. ▶ Next	

(4) Select the “O/D unit no.” by pressing the [◀] or [▶] button.
Select one of the “O/D unit no.” by pressing the [▼] or [▲] button and press the [↵] button for auto address setting.
Approximately 10 minutes are required.
When auto address setting is completed, the units return to normal stopped status.

<Procedure of CZ-RTC4>

NOTE

- Selecting each refrigerant system individually for auto address setting
- Auto address setting for each system : Item code “A1”

(1) Press the remote controller timer time /TIMER button and button at the same time.
(Press and hold for 4 seconds or longer.)

(2) Next, press either the temperature setting ▽ / △ button.
(Check that the item code is “A1”.)

(3) Use either the UNIT button to set the system No. to perform auto address setting.

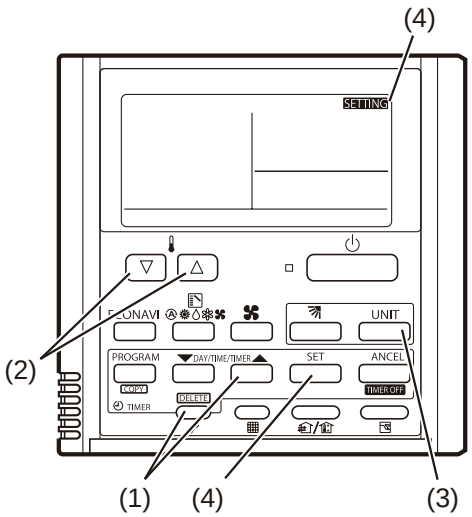
(4) Then press the SET button.

(Auto address setting for one refrigerant system begins.)
(When auto address setting for one system is completed, the system returns to normal stopped status.)

<Approximately 10 minutes are required.>

(During auto address setting, “SETTING” is displayed on the remote controller.

This message disappears when auto address setting is completed.)



CZ-RTC4

(5) Repeat the same steps to perform auto address setting for each successive system.

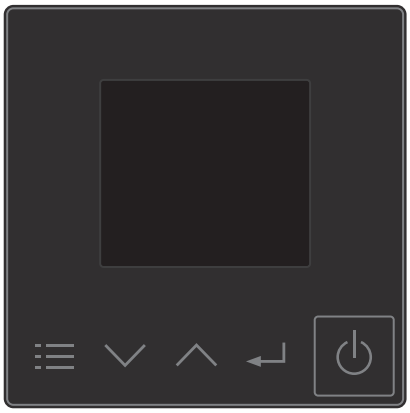
2-3-1-6-4. How to Set Refrigerant System Address (Only outdoor PZ2 and PZH2 series)

- Turn on the power in the indoor and outdoor units of the refrigerant system 1.
- Switch the power on and wait at least 1 minute and 30 seconds or more. Short-circuit the auto address pin of the outdoor unit with turned on and release. (LED1 and LED2 of the outdoor unit control PCB blink alternately and the address setting of the indoor unit is started. When completed, LEDs go off.)
  <It takes about 10 minutes until it finished.>
  Auto address pin: If you once again short-circuit the auto address pin before completion when the auto address started, the auto address will stop.
- Turn on the different refrigerant system's indoor and outdoor units and wait at least 1 minute and 30 seconds or more. Then short-circuit the auto address pin of the outdoor unit and release.
- Repeat the same procedure and complete the auto address setting of each system.
- When the address setting is completed, wait at least 1 minute and 30 seconds or more. Then start the operation.

2-3-1-6-5. Checking the Indoor Unit Addresses

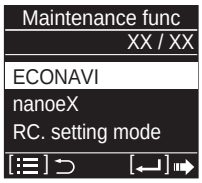
Use the remote controller to check the indoor unit address.

<Procedure of CZ-RTC6 series>

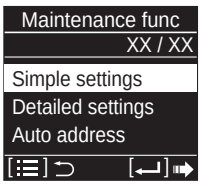


CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



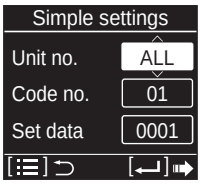
(2) Press the ∨ or ∧ button to see each menu.
Select “Simple settings” on the LCD display and press the ↵ button.



(3) The “Simple settings” screen appears on the LCD display.
Select the “Unit no.” by pressing the ∨ or ∧ button for changes.

* The initial display is “ALL”.

The indoor unit fan operates only at the selected indoor unit.



(4) Press the ☰ button and select “YES” to restart.

<Procedure of CZ-RTC5B>



CZ-RTC5B

(1) Keep pressing the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
▲▼ Sel. ◀ ▶ Page [↵] Confirm

(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “7. Simple settings” on the LCD display and press the ↵ button.

Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
▲▼ Sel. ◀ ▶ Page [↵] Confirm

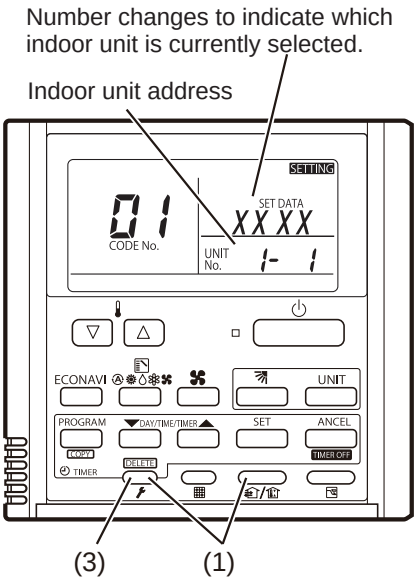
(3) The “Simple settings” screen appears on the LCD display.
Select the “Unit no.” by pressing the ▼ or ▲ button for changes.
* The initial display is “ALL”.
The indoor unit fan operates only at the selected indoor unit.

Simple settings		20:30 (THU)
Unit no.	Code no.	Set data
ALL	01	0001
▲▼ Sel. ▶ Next		

(4) Press the ⮌ button and select “YES” to restart.

<Procedure of CZ-RTC4>
<If 1 indoor unit is connected to 1 remote controller>

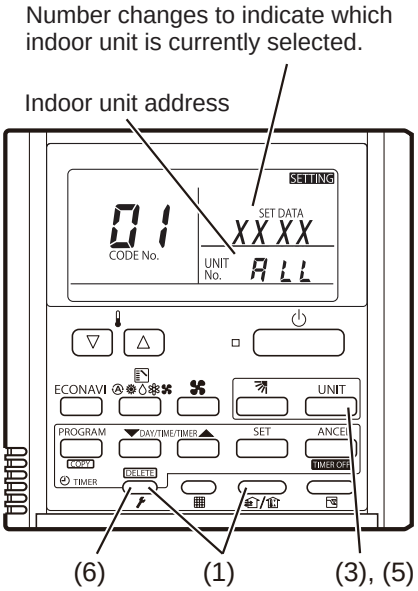
(1) Press and hold the button and button for 4 seconds or longer (simple settings mode).
(2) The address is displayed for the indoor unit that is connected to the remote controller.
(Only the address of the indoor unit that is connected to the remote controller can be checked.)
(3) Press the button again to return to normal remote controller mode.



CZ-RTC4

<If multiple indoor units are connected to 1 remote controller (group control)>

(1) Press and hold the button and button for 4 seconds or longer (simple settings mode).
(2) “ALL” is displayed on the remote controller.
(3) Next, press the UNIT button.
(4) The address is displayed for 1 of the indoor units which is connected to the remote controller. Check that the fan of that indoor unit starts and that air is discharged.
(5) Press the UNIT button again and check the address of each indoor unit in sequence.
(6) Press the button again to return to normal remote controller mode.



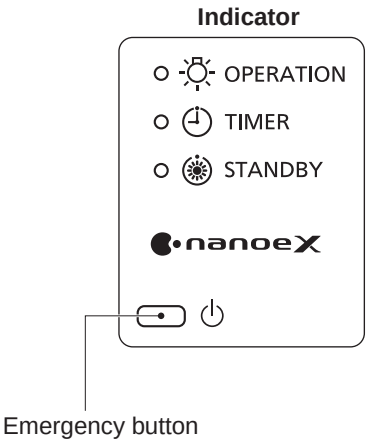
CZ-RTC4

2-3-1-6-6. Test run using the indicator of the indoor unit (Wall Mounted Type)

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

(1) Press and hold the Emergency button for 4 seconds or more.
The indication lamps (OPERATION, TIMER, STANDBY)
epeatedly light one after the other for 1 second.
• The wireless remote controller address setting mode is set.

(2) Press and hold the Emergency button for 4 seconds or more again.
The indication lamps (OPERATION, TIMER, STANDBY) blink during test operation.
• The test run can be performed using the HEAT, COOL, or FAN operation mode.
• The temperature cannot be adjusted when in test run mode.
• If correct operation is not possible, some of the display lamps (OPERATION, TIMER, STANDBY) will turn ON or OFF.
(Regarding the alarm contents, see 2-3-1-5. Contents of Remote Controller Switch Alarm Display.)



(3) To stop test operation, press and hold the Emergency button.
• To prevent continuous test run, this mode includes a timer function that cancels the test run after 60 minutes.

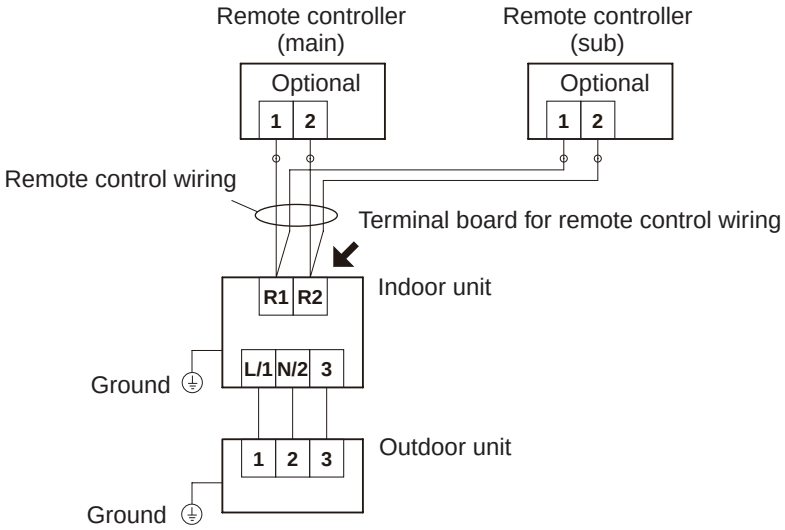
NOTE

- The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.

2-3-1-6-7. Main-Sub Remote Controller Control

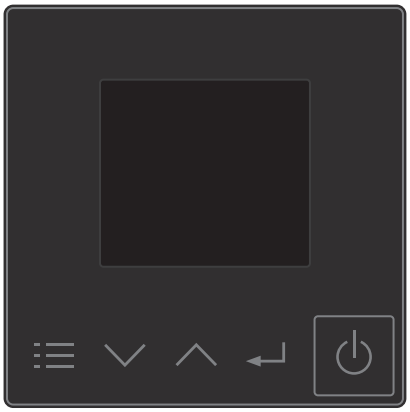
One (1) indoor unit can be controlled by two (2) wired remote controllers. In the case of using 2 remote controllers, one of them needs to be designated as the sub remote controller.

Connecting 2 remote controllers to control 1 Indoor unit



3-LINE CONNECTION

<Procedure of CZ-RTC6 series>

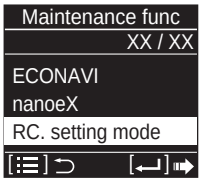


CZ-RTC6 series

(1) Press and hold the ☰, ∧ and ↵ for 4 seconds or more simultaneously.

(2) Select “RC. setting mode”.

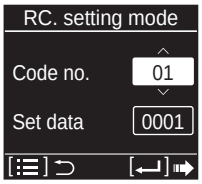
∨ ∧ → ↵



(3) Select the “Code no.” and “ Set data”.

∨ ∧ → ↵

(Repeat)



Code no.	Item	Set data	
		0000	0001
01	Main/Sub	Sub	Main

(4) Press ☰

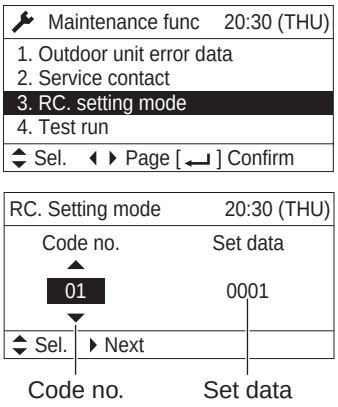
- After selecting “YES”, the unit restarts.

<Procedure of CZ-RTC5B>

(1) Press and hold the [↩], [↵] and [▶] for 4 seconds or more simultaneously.

(2) Select “3. RC. setting mode”.

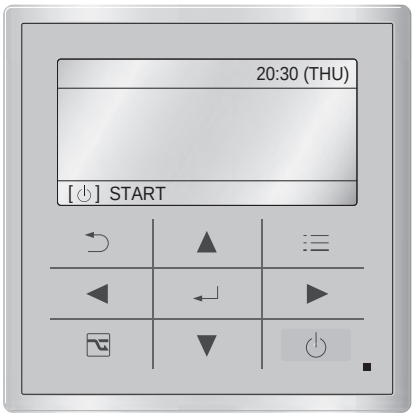
[▲] [▼] → [↵]



(3) Select the “Code no.” and “Set data”.

[▲] [▼] → [▶] → [↵]

(Repeat)



CZ-RTC5B

Code no.	Item	Set data	
		0000	0001
01	Main / Sub	Sub	Main

(4) Press [↩].

• After selecting “YES”, the unit restarts.

<Procedure of CZ-RTC4>

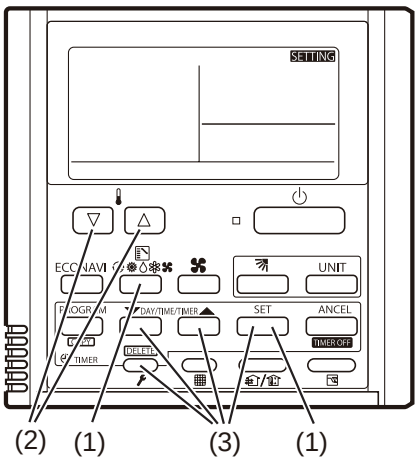
(1) Press and hold the [☼❄♨✻] and [SET] buttons for several seconds simultaneously.

(2) Select the Code no. [▽]/[△]

(3) Select the Set data. [DAY/TIME/TIMER▲] → [SET]

The indicator illuminates after blinking. Press [🔧].

Code no.	Item	Set data	
		0000	0001
01	Main / Sub	Sub	Main



CZ-RTC4

2-4. Outdoor Unit

2-4-1. Checks After Installation Have Completed

U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A
U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8
U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

■ Check the following items after completing installation.

- ☐ Is there a short circuit with the intake air flow?
- ☐ Is the insulation secure? (Refrigerant piping)
- ☐ Are there any errors with the wiring?
- ☐ Are the terminal screws loose? Tightening torque (Unit: N•m {kgf•cm})
  M4...1.57~1.96 {16~20}, M5...1.96~2.45 {20~25}
- ☐ Is the drain water flowing smoothly?
- ☐ Is the insulation material properly installed?
- ☐ Is the earth wire securely connected?
- ☐ Are the terminal board cover, control board cover and the indoor unit air conditioner firmly fixed and was the installation completed without any leakage from the refrigerant?
- ☐ Are the indoor and outdoor units secured firmly installed with bolts at secured locations?

U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

■ Check the following items after completing installation.

- ☐ Is there a short circuit with the intake air flow?
- ☐ Is the insulation secure? (Refrigerant piping)
- ☐ Are there any errors with the wiring?
- ☐ Are the terminal screws loose? Tightening torque (Unit: N•m {kgf•cm})
  M4...1.57~1.96 {16~20}, M5...1.96~2.45 {20~25}
- ☐ Is the drain water flowing smoothly?
- ☐ Is the insulation material properly installed?
- ☐ Is the earth wire securely connected?
- ☐ Is the front panel and the indoor unit air conditioner firmly fixed and was the installation completed without any leakage from the refrigerant?
- ☐ Are the indoor and outdoor units secured firmly installed with bolts at secured locations?

2-4-2. Regarding Delivery to the Customer

■ Request the customer to review the operating instructions and explain the operating method for the product.
■ In addition, it is also recommended that regular inspection checks are agreed upon for maintenance.

User inspection places	• Grill cleaning
	• Exterior cleaning
Serviceman inspection places	• Check the operating status
	• Clean the drain pan or things related to the water discharge
	• Heat exchanger cleaning

See "1-11-1. Installation Instructions" of Indoor Unit for the specifications on the indoor unit installation.

2-4-3. Caution for Pump-Down

U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A
U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

Pump-down means refrigerant gas in the system is returned to the outdoor unit.
Pump-down is used when the unit is to be moved, or before servicing the refrigerant circuit.

■ How to perform Pump-Down (Refrigerant recovery) properly

1 Stop operation of the unit (cooling, heating, etc.).
2 Connect the pressure gauge to the service port of the gas side valve.
3 Short-circuit CN-S continuously between 1 second and seconds, Pump-Down begins and the unit starts operating.
4 Fully close the liquid side valve 2-3 minutes later.
The Pump-Down will begin.
5 When the pressure gauge drops to 0.1-0.2MPa, close the gas side valve tight, short-circuit the CN-S for more than 10 seconds, and then release it.
Turn off the power supply immediately.
Then the Pump-Down control is completed.

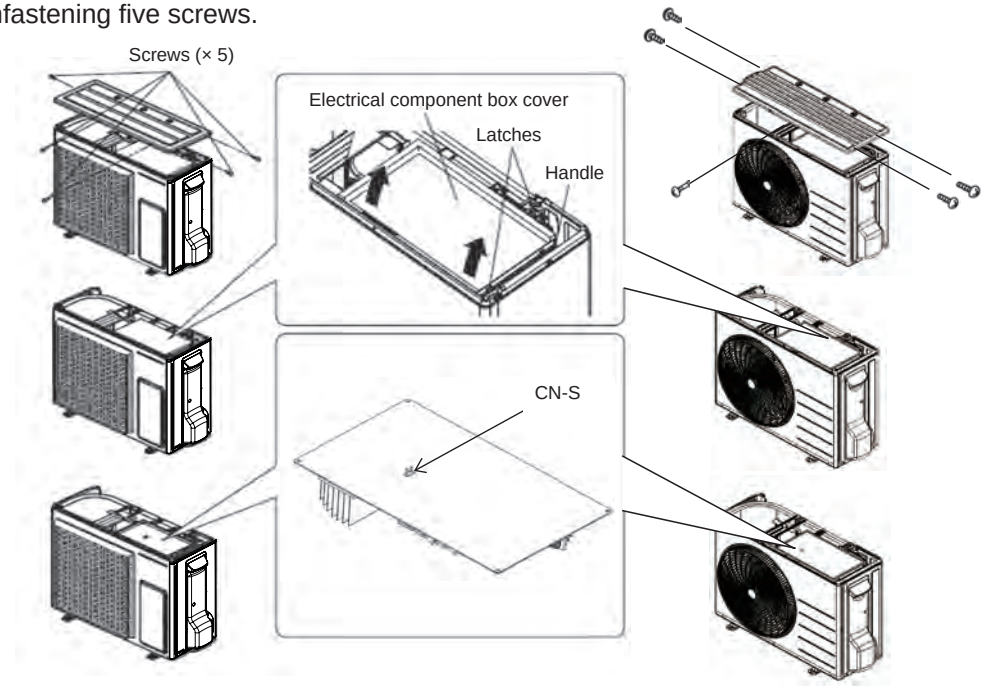
Control stop condition
-600 seconds after the Pump-Down operation starts

Note : If maximum charge-less pipe length is exceeded, do not pump-down with running compressor only.
(It may trigger the overload protection control).
In this case, use pump-down device.

Caution in the Pump-Down operation, stop the compressor before removing the refrigerant pipes.
If you do not stop the compressor operation, and if the valve is open and remove the refrigerant pipes, the air may be sucked into the system and causes extreme high temperature in the refrigerant cycle. This may result in rupture or injury, etc.

(1) Remove the top panel by unfastening five screws.

(2) To remove the electrical component box cover, press the latches on the cover in the direction of the arrow while holding the handle with one hand.



⚠ CAUTION

- **This outdoor unit cannot collect more than the rated refrigerant amount as shown by the nameplate on the back.**
- **If the amount of refrigerant is more than that recommended, do not conduct a Pump-Down. In this case use another refrigerant collecting system.**
- **Pay a special attention on the rotating of the fan while operating.**

U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

Pump-down means refrigerant gas in the system is returned to the outdoor unit.
Pump-down is used when the unit is to be moved, or before servicing the refrigerant circuit.

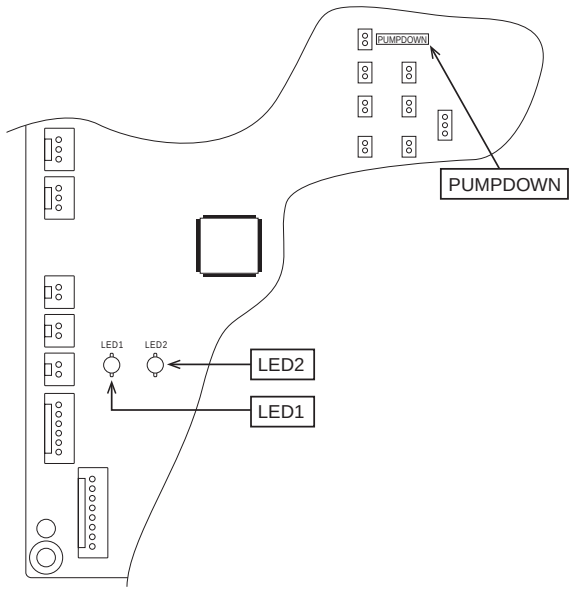
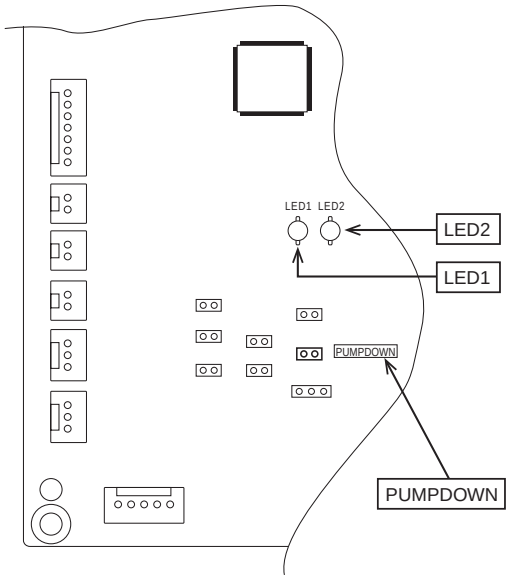
2

■ **How to perform Pump-Down (Refrigerant recovery) properly**

1 Stop operation of the unit (cooling, heating, etc.).
2 Connect the pressure gauge to the service port of the 3-way valve (Gas Side).
3 Short-circuit the “PUMPDOWN” pin on an outdoor unit control PCB (CR) for more than 1 second to release.
  • Pump-Down begins and the unit starts operating.
  • During Pump-Down, LED1 blinks and LED2 is lit on an outdoor unit control PCB (CR).
4 Fully close the 3-way valve (liquid side) 2-3 minutes later.
  The Pump-Down will begin.
5 When the pressure gauge drops to 0.1-0.2MPa, close the 3-way valve (Gas Side) tightly and short-circuit the “PUMPDOWN” pin for more than 1 second to release. That is the end of Pump-Down.
  • When running for more than 10 minutes, it stops even if the Pump-Down is not completed. Check the blocked state of the liquid side valve.
  • It also stops when the “PUMPDOWN” pin is short-circuited during the operation.

* For compressor protection, do not operate to the point where the unit wiring side reaches negative pressure.

Note : If maximum charge-less pipe length is exceeded, do not pump-down with running compressor only. (It may trigger the overload protection control.) In this case, use pump-down device.

OUTDOOR UNIT CONTROL PCB (CR) SINGLE-PHASE MODEL	OUTDOOR UNIT CONTROL PCB (CR) 3-PHASE MODEL
	

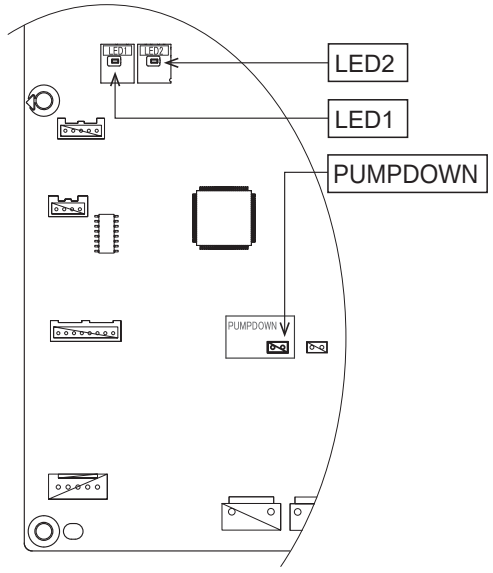
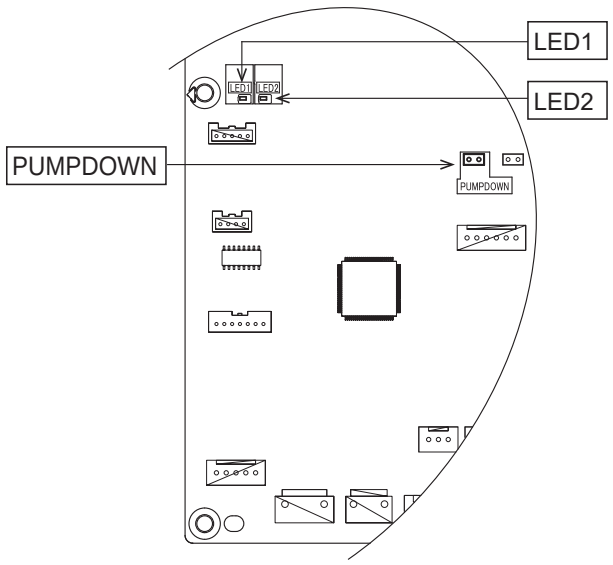
U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

Pump-down means refrigerant gas in the system is returned to the outdoor unit.
Pump-down is used when the unit is to be moved, or before servicing the refrigerant circuit.

■ **How to perform Pump-Down (Refrigerant recovery) properly**

1 Stop operation of the unit (cooling, heating etc.).
2 Connect the pressure gauge to the service port of the 3-way valve (gas side).
3 Short-circuit the “PUMPDOWN” pin on an outdoor unit control PCB (CR) for more than 1 second to release.
   • Pump-Down begins and the unit starts operating.
   • During Pump-Down, LED1 blinks and LED2 is lit on an outdoor unit control PCB (CR).
   • “CHK” blinks on the remote controller.
4 Fully close the 3-way valve (liquid side) 2-3 minutes later.
   The Pump-Down will begin.
5 When the pressure gauge drops to 0.1-0.2MPa, close the 3-way valve (gas side) tightly and short-circuit the “PUMPDOWN” pin for more than 1 second to release. That is the end of Pump-Down.
   • When running for more than 10 minutes, it stops even if the Pump-Down is not completed. Check the blocked state of the liquid side valve.
   • It also stops when the “PUMPDOWN” pin is short-circuited during the operation.

* For compressor protection, do not operate to the point where the unit reaches negative pressure.

OUTDOOR UNIT CONTROL PCB (CR) SINGLE-PHASE MODEL	OUTDOOR UNIT CONTROL PCB (CR) 3-PHASE MODEL
	

Note : If maximum charge-less pipe length is exceeded, do not pump-down with running compressor only. (It may trigger the overload protection control.) In this case, use pump-down device.

– MEMO –

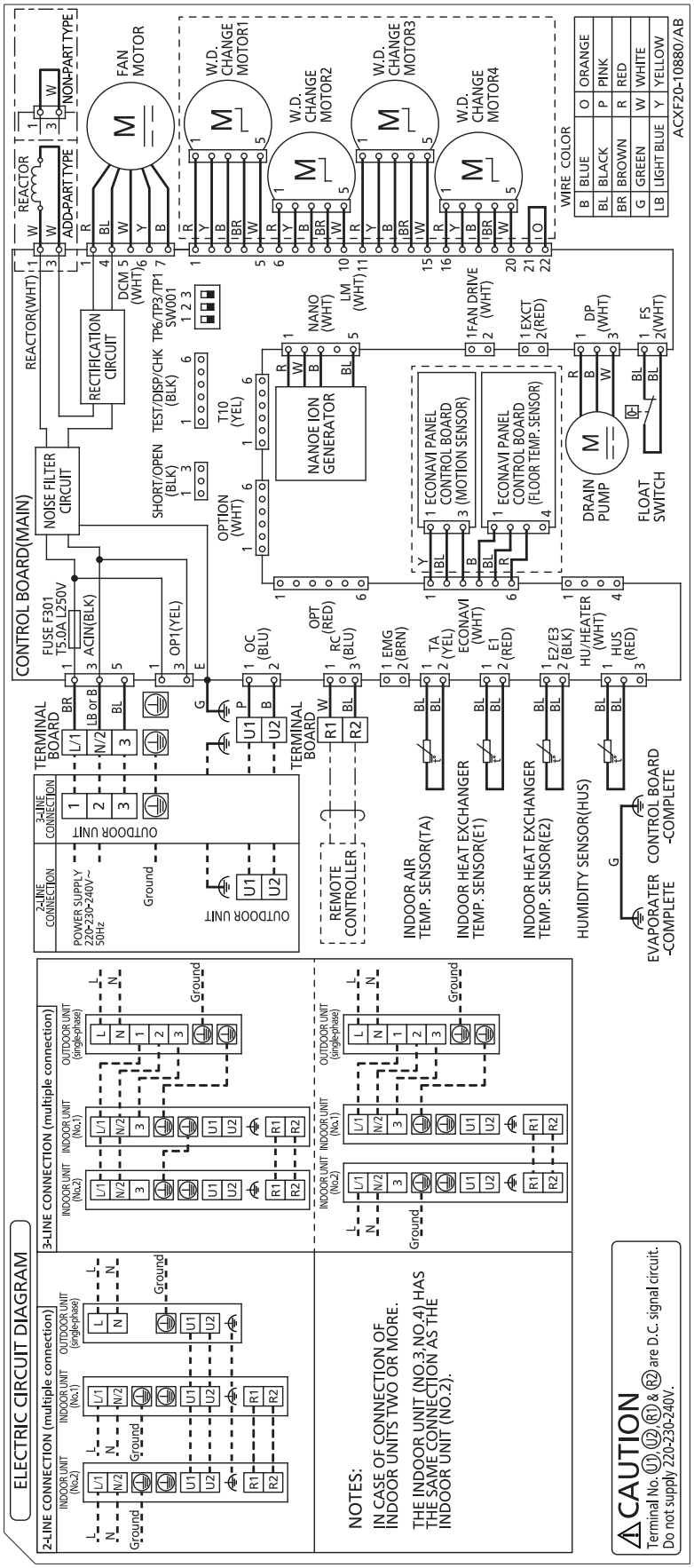
3. ELECTRICAL DATA

3-1. Indoor Unit (Electric Wiring Diagram) 3-1-1-1
3-1-1. 4-Way Cassette Type 3-1-1-1
3-1-2. Middle Static Pressure Duct Type 3-1-2-1
3-1-3. Wall Mounted Type 3-1-3-1
3-1-4. Ceiling Type 3-1-4-1
3-1-5. 4-Way Cassette 60 × 60 Type 3-1-5-1
3-2. Outdoor Unit (Electric Wiring Diagram) 3-2-1-1
3-2-1. PZ3 3-2-1-1
3-2-2. PZH3 3-2-2-1

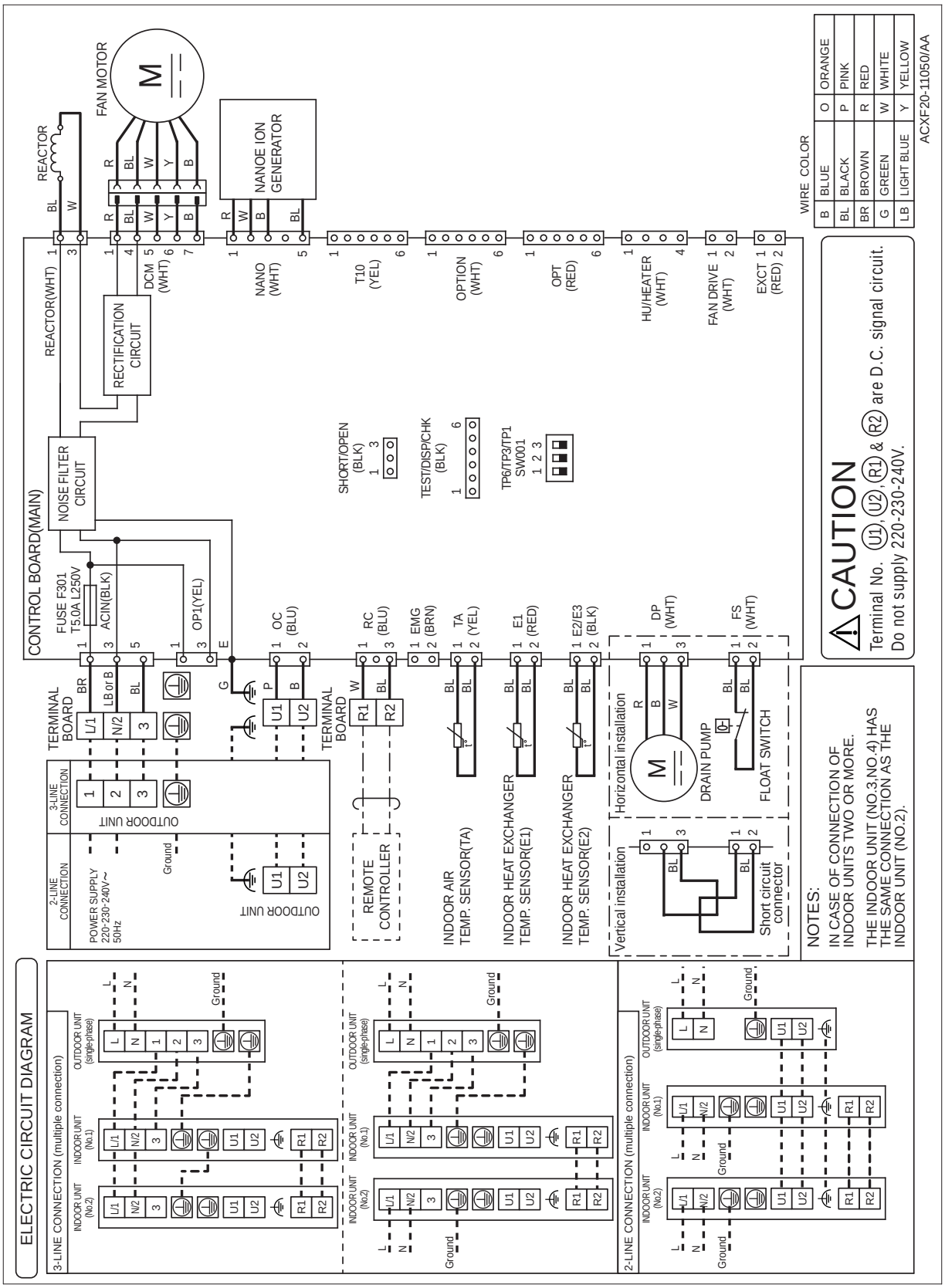
3-1. Indoor Unit (Electric Wiring Diagram)

3-1-1. 4-Way Cassette Type

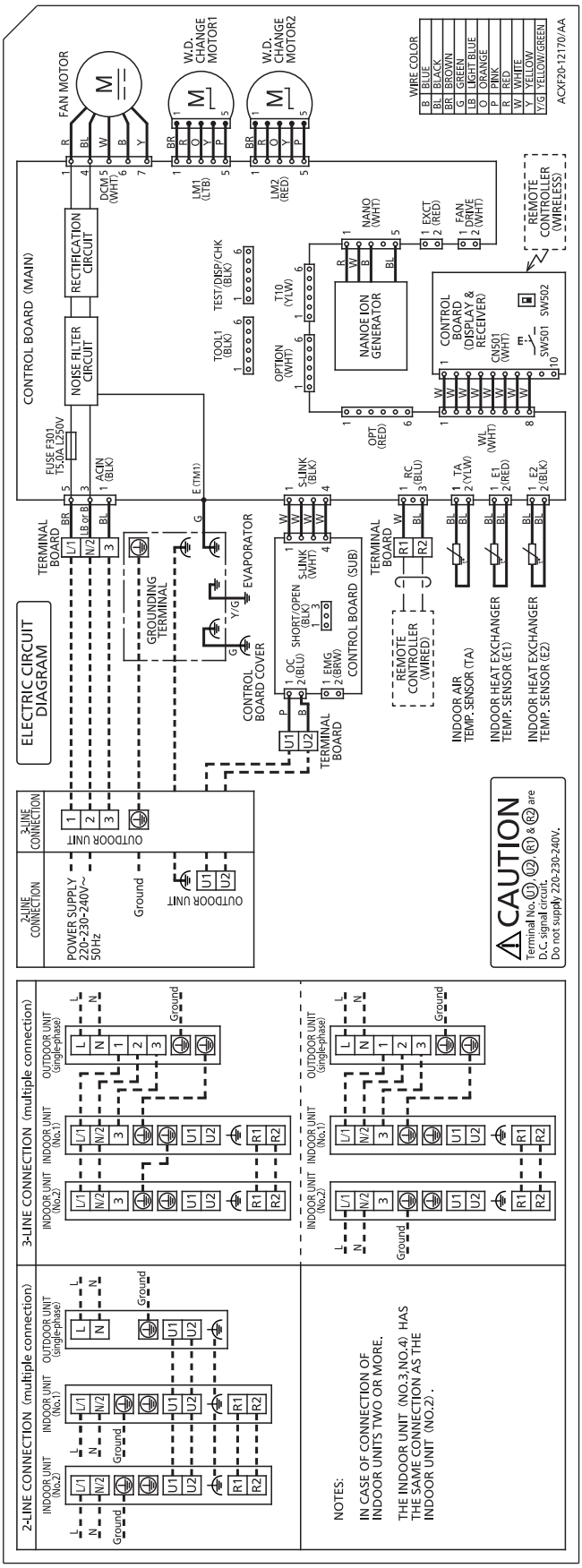
S-3650PU3E, S-6071PU3E, S-1014PU3E



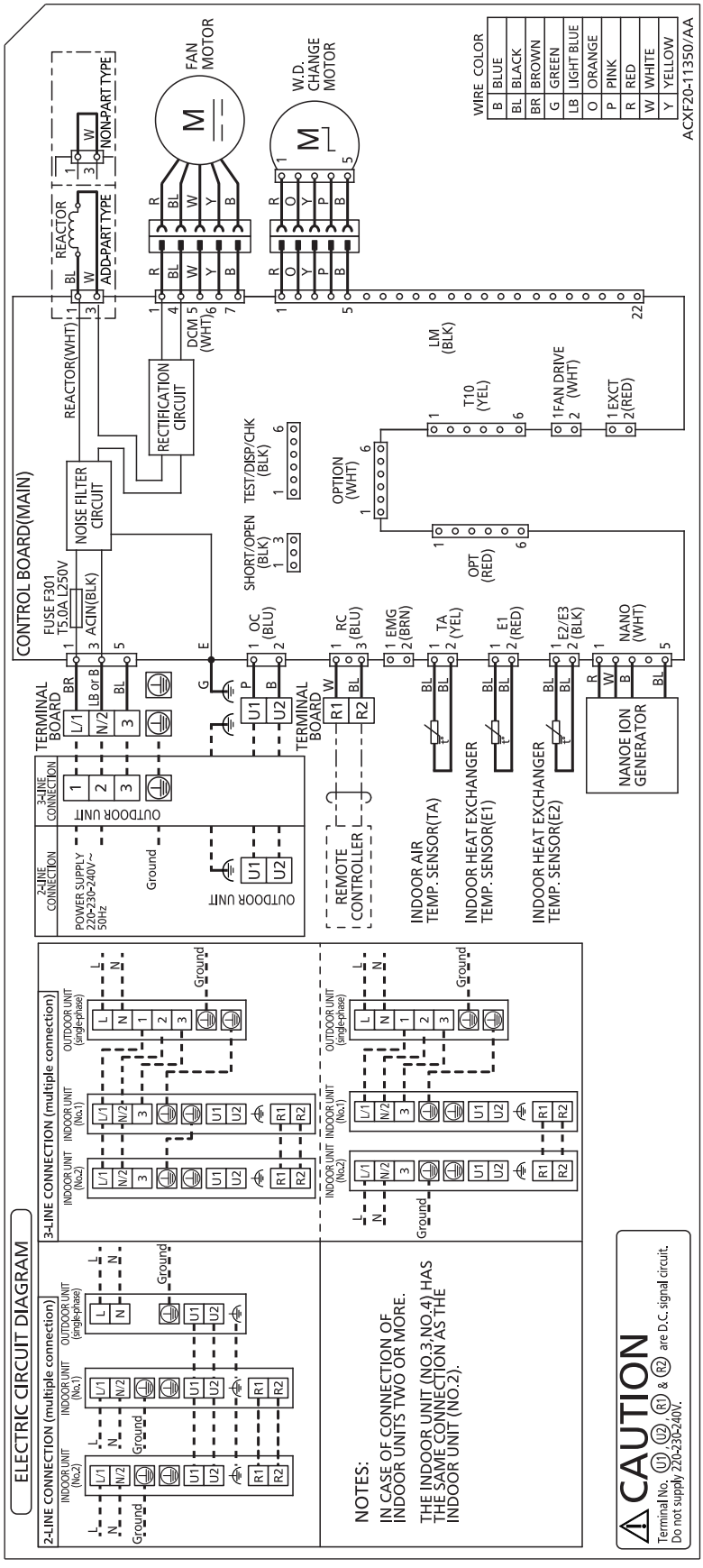
3-1-2. Middle Static Pressure Duct Type
S-3650PF3E, S-6071PF3E, S-1014PF3E



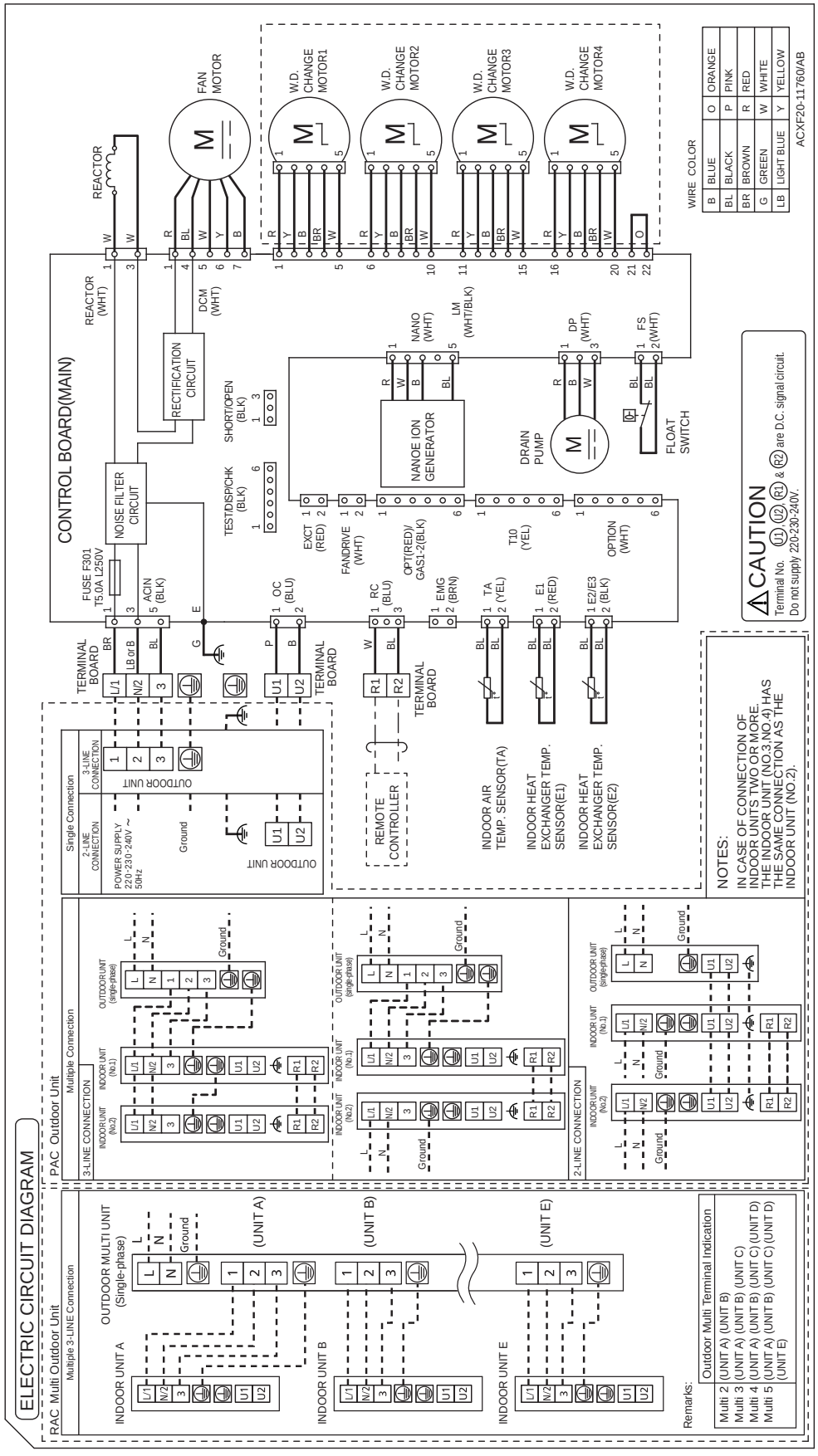
3-1-3. Wall Mounted Type
S-3650PK3E, S-6010PK3E



3-1-4. Ceiling Type
S-3650PT3E, S-6071PT3E, S-1014PT3E



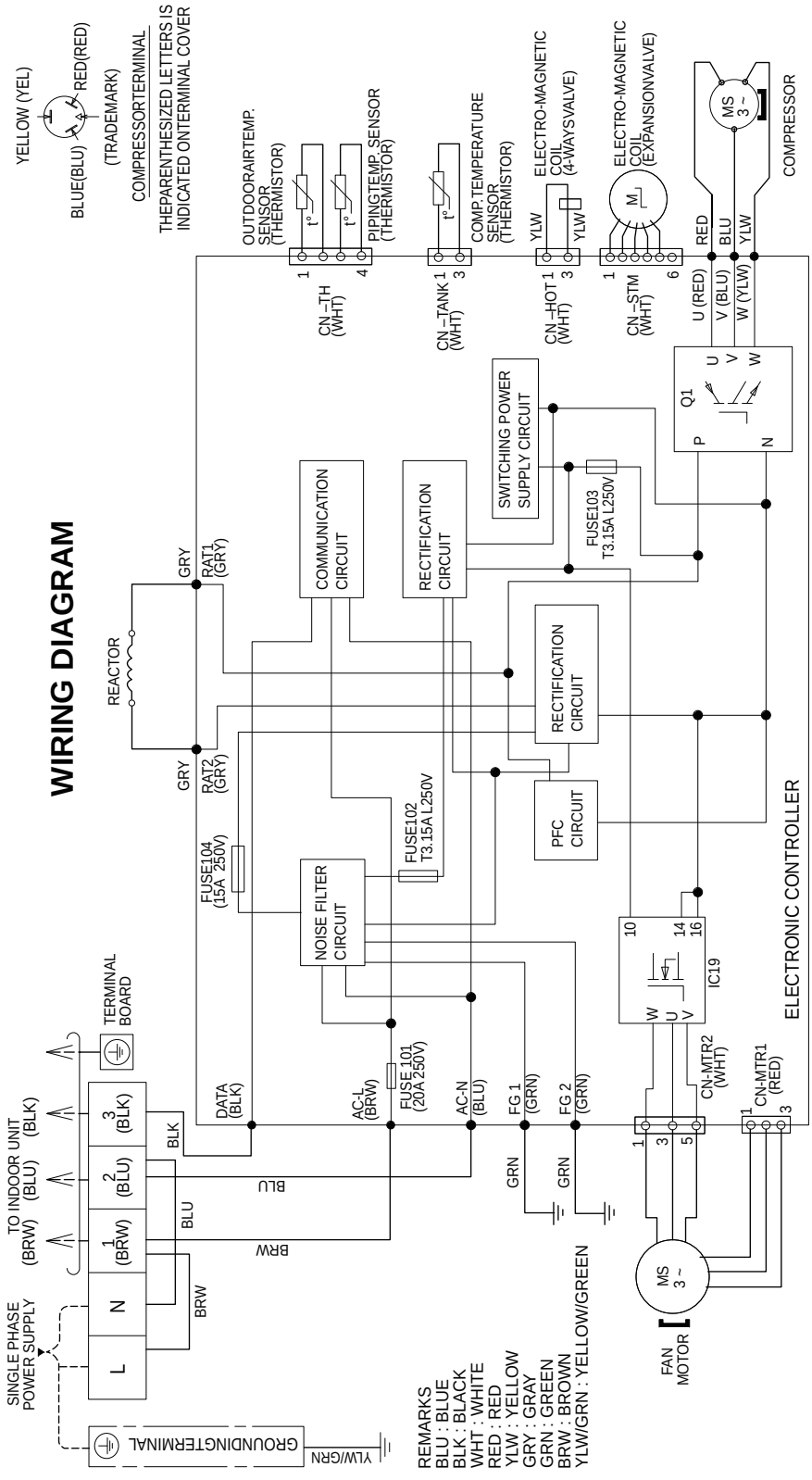
3-1-5. 4-Way Cassette 60 × 60 Type
S-25PY3E, S-36PY3E, S-50PY3E, S-60PY3E



3-2. Outdoor Unit (Electric Wiring Diagram)

3-2-1. PZ3

U-25PZ3E5, U-36PZ3E5

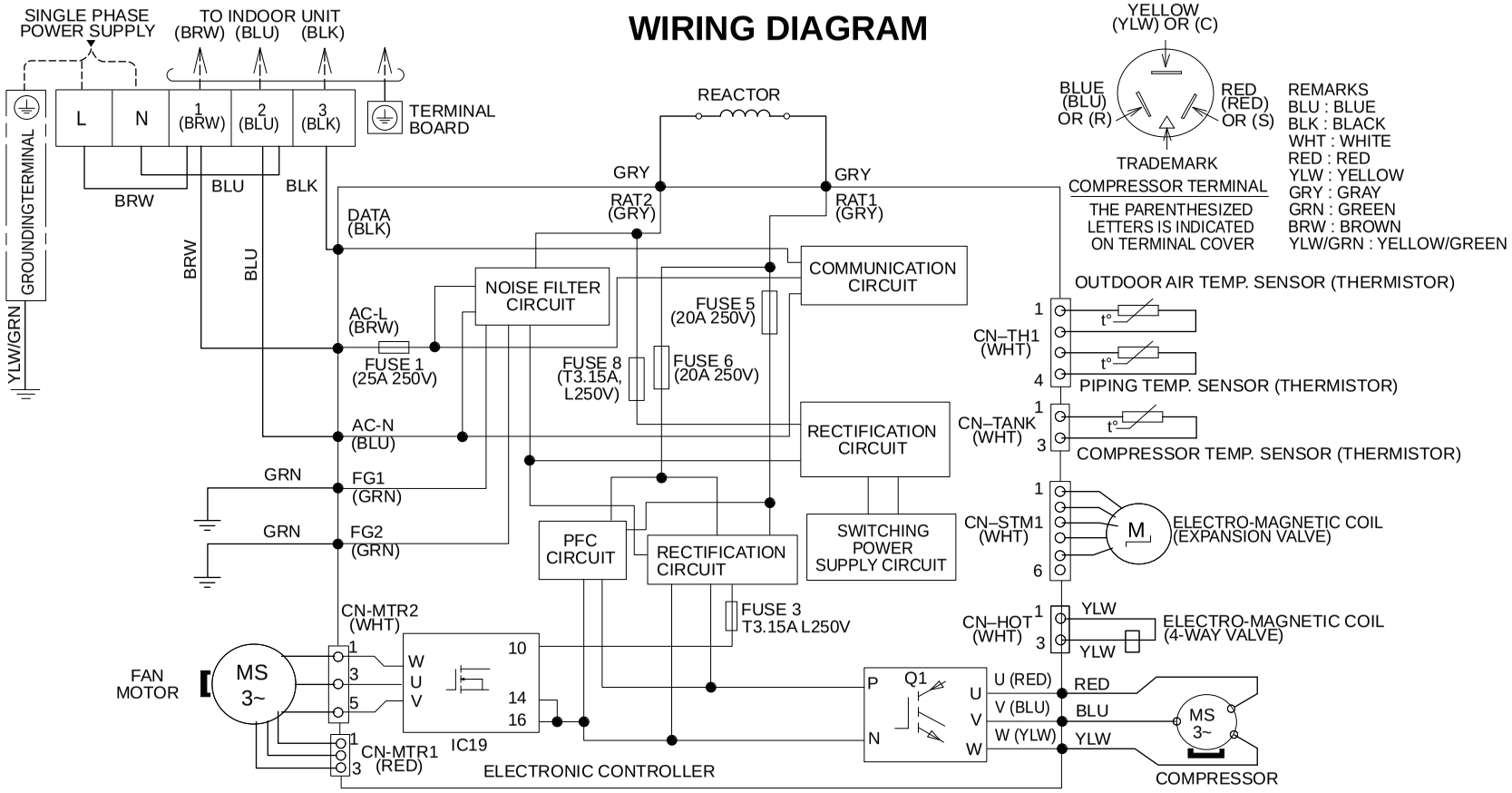


⚠ CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING THE TERMINALS IN THE CONTROL BOARD.

ACXF22-08420

WIRING DIAGRAM

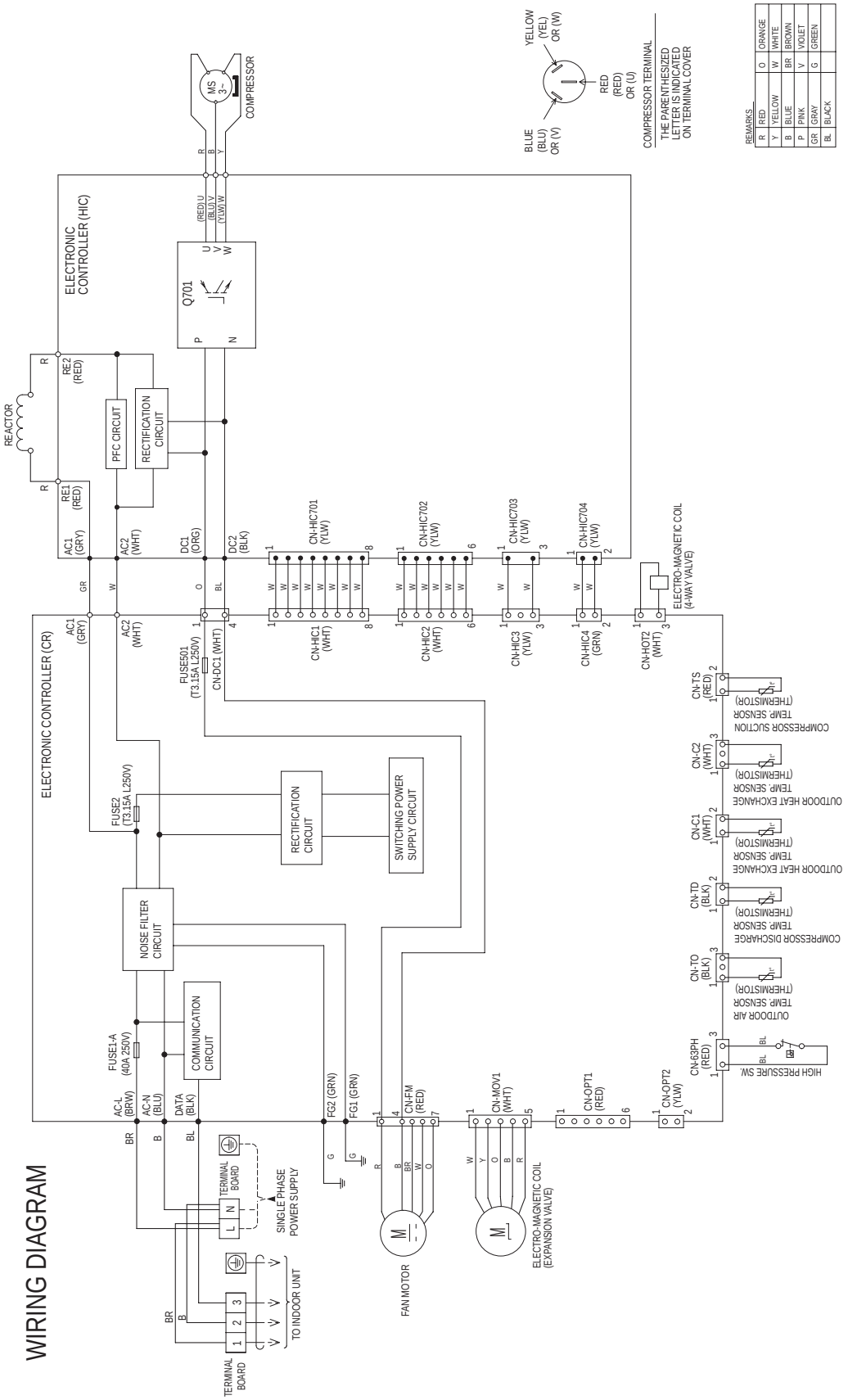


⚠ CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING THE TERMINALS IN THE CONTROL BOARD.

ACXF22-08430

WIRING DIAGRAM

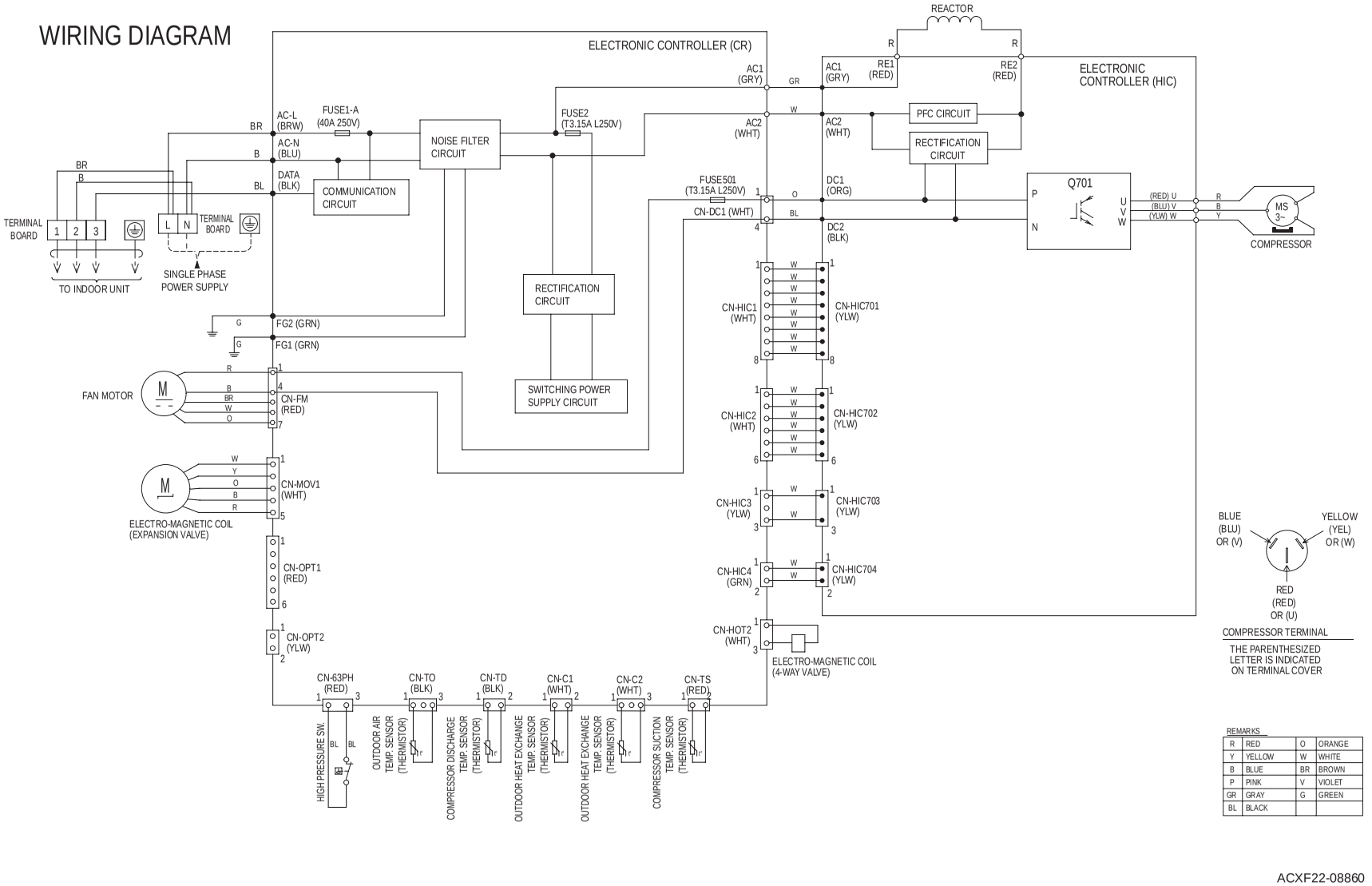


ACXF22-08870

⚠ CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING THE TERMINALS IN THE CONTROL BOARD.

WIRING DIAGRAM

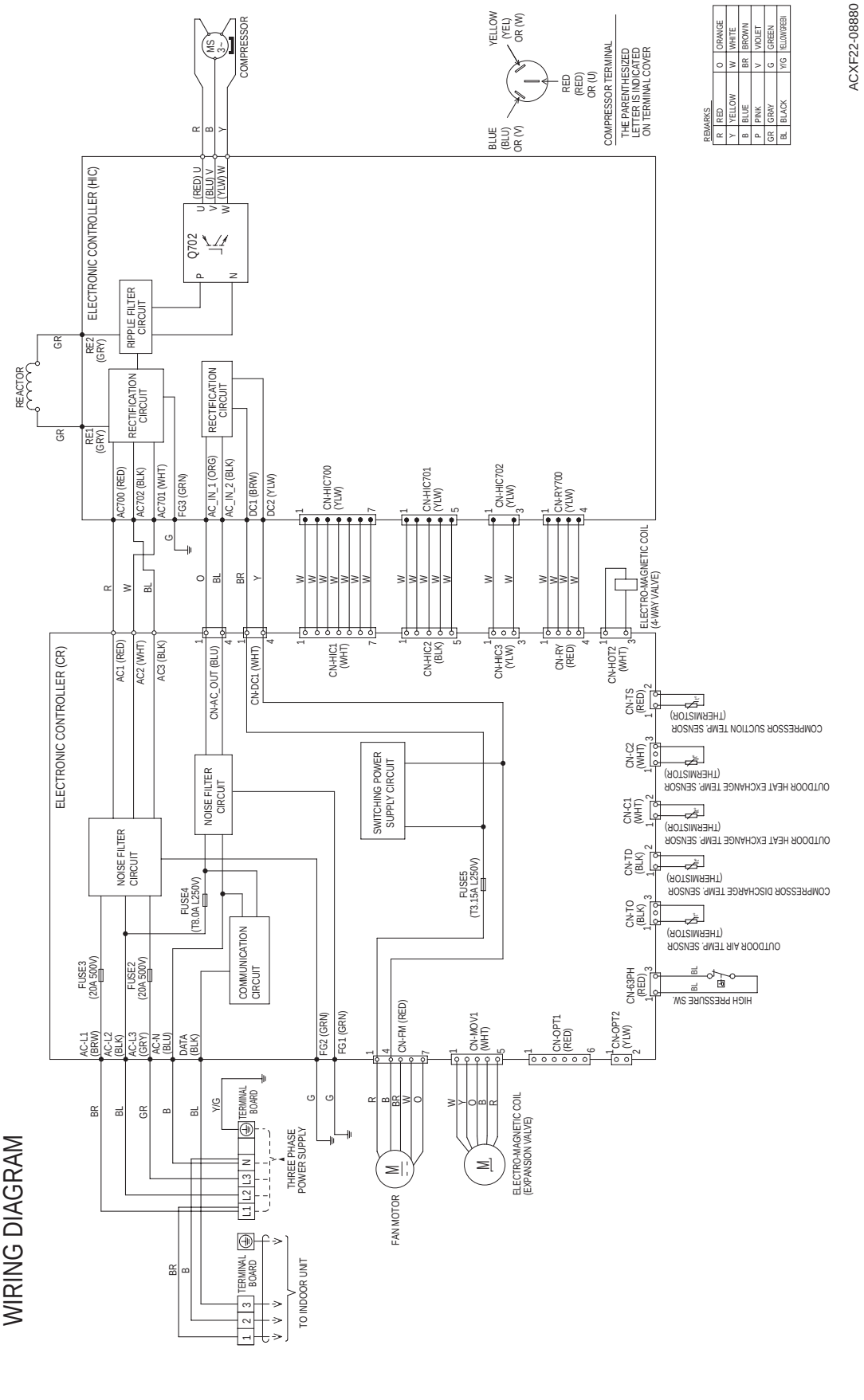


ACXF22-08860

⚠ CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING THE TERMINALS IN THE CONTROL BOARD.

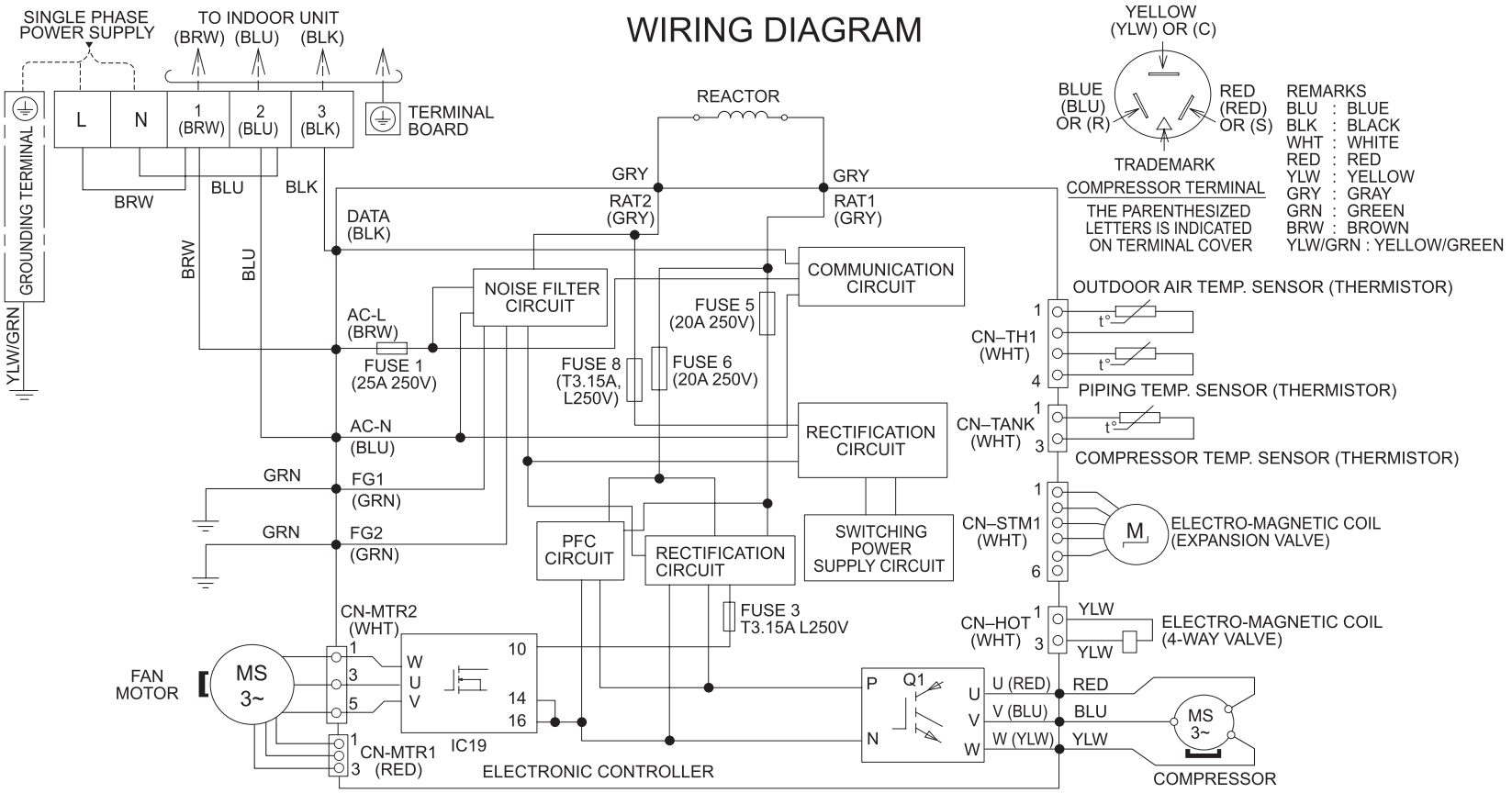
WIRING DIAGRAM



⚠ CAUTION

DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING THE TERMINALS IN THE CONTROL BOARD.

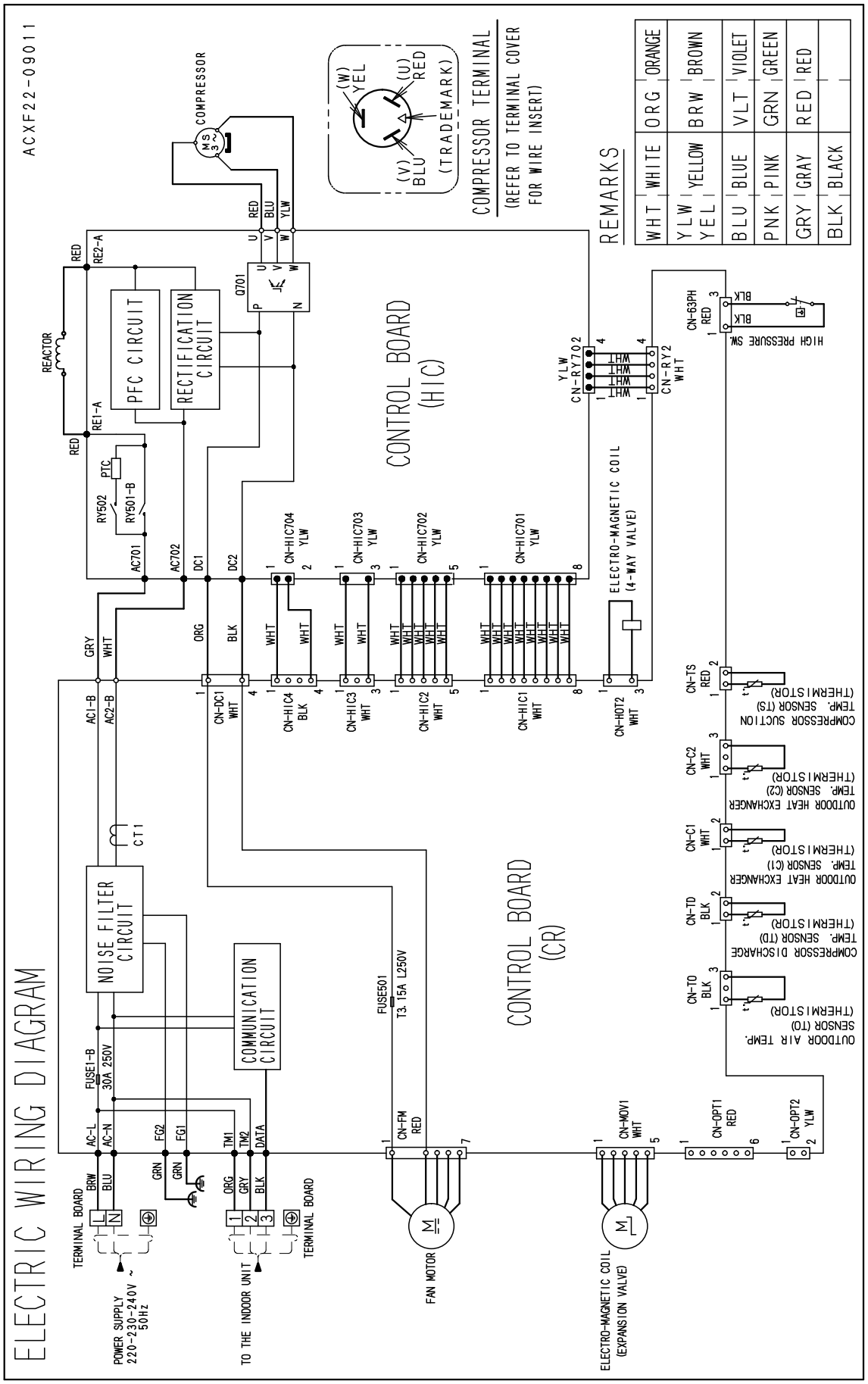
WIRING DIAGRAM



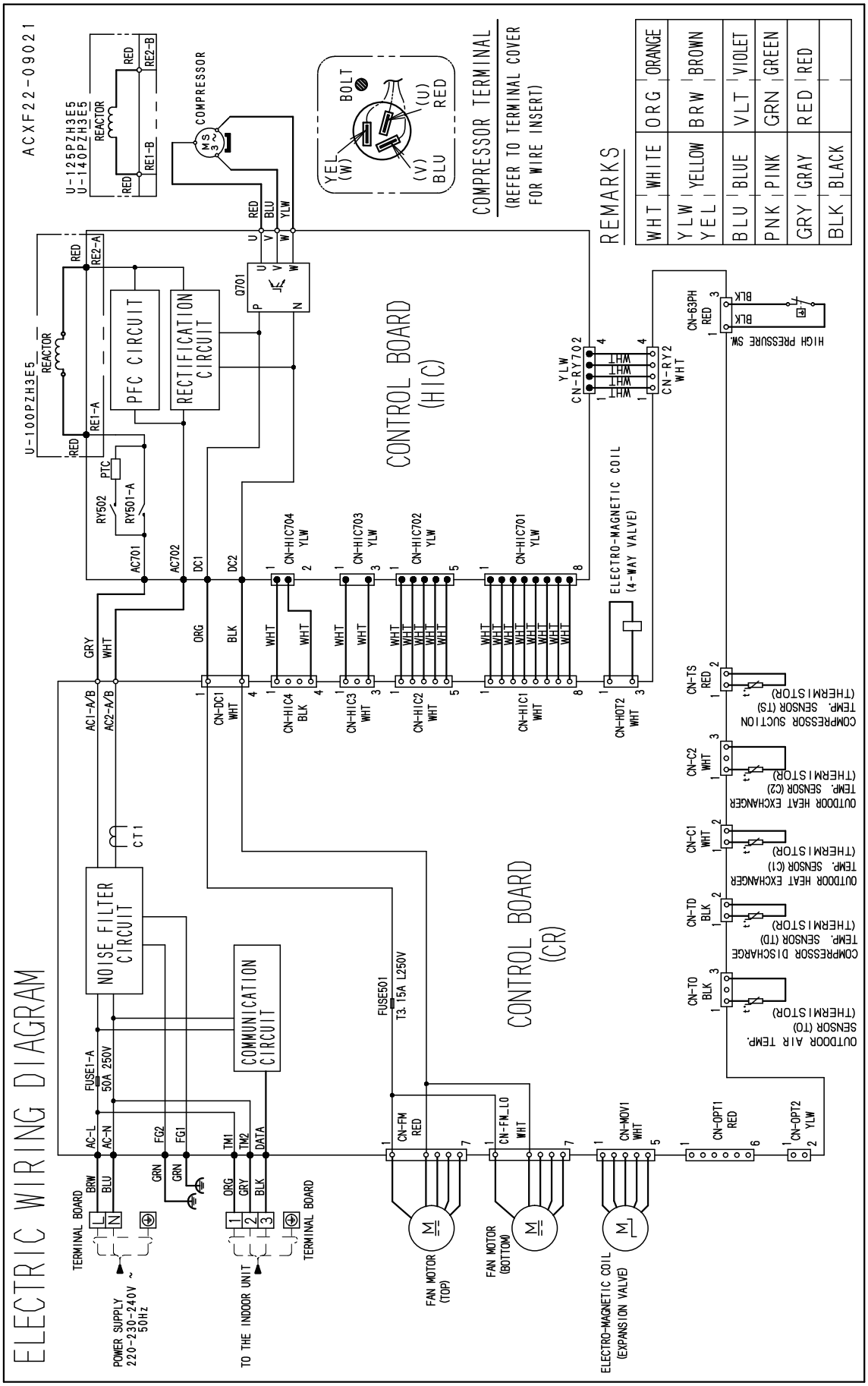
⚠ CAUTION

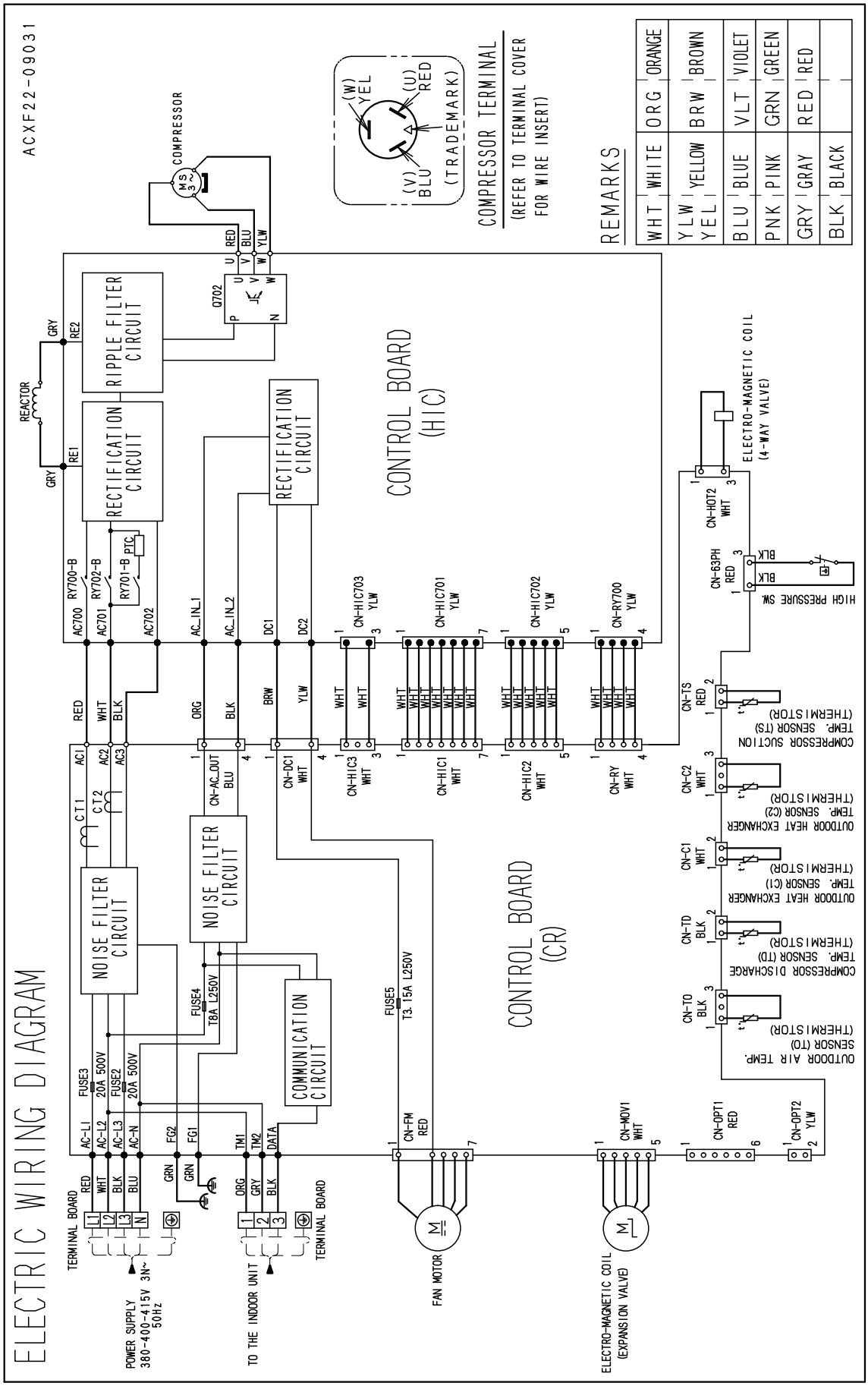
DUE TO HIGH VOLTAGE, DO NOT TOUCH THE TERMINALS IN THE CONTROL BOARD DURING OPERATION AND 5 MINUTES AFTER SWITCHING OFF. NEXT, CONFIRM THE VOLTAGE RECTIFICATION CIRCUIT BETWEEN DIODE BRIDGE (+) AND (-) HAS DROPPED TO BELOW 42V, BEFORE ACCESSING THE TERMINALS IN THE CONTROL BOARD.

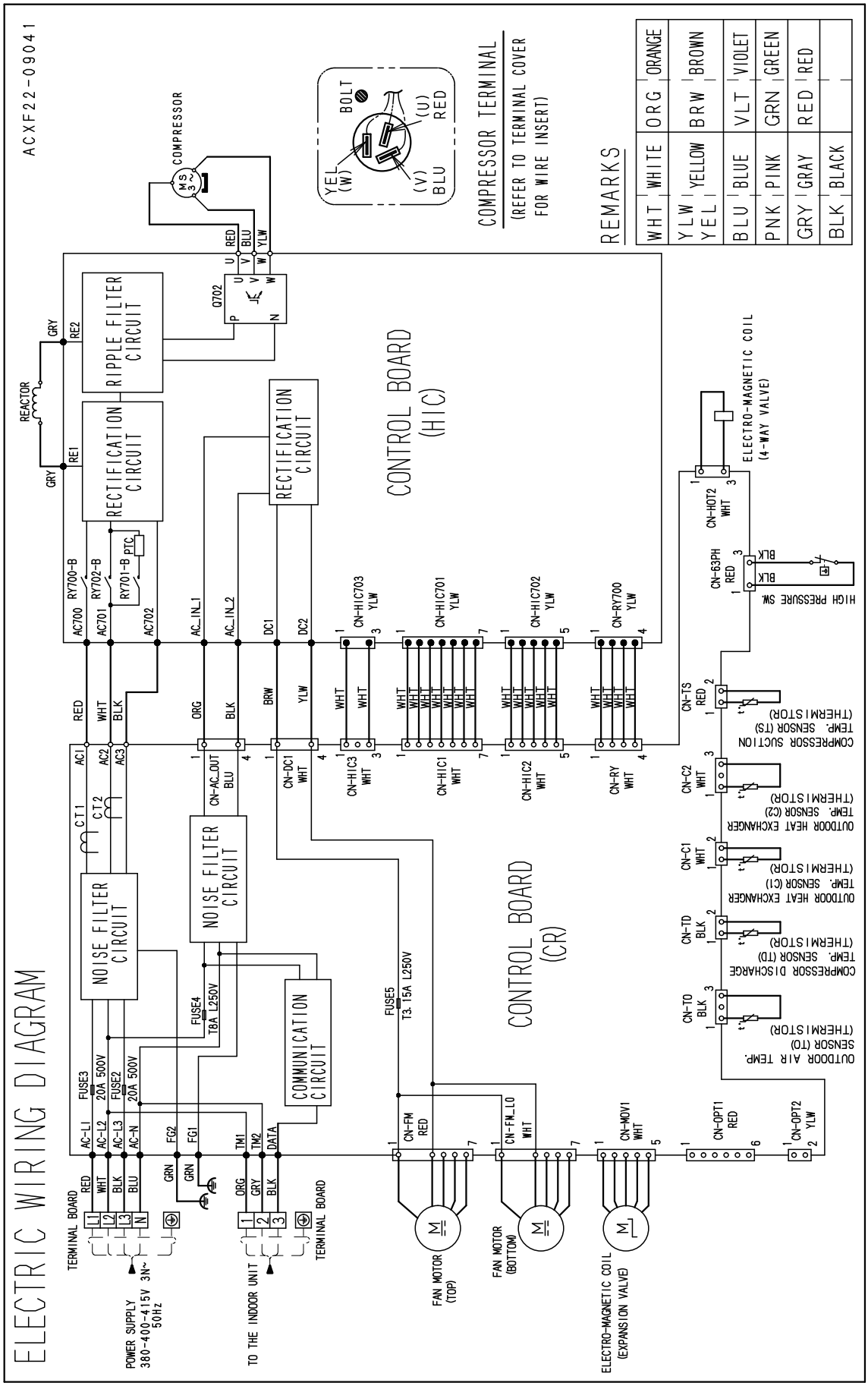
ACXF22-08430


ELECTRIC WIRING DIAGRAM
ACXF22-09011
POWER SUPPLY 220-230-240V ~ 50Hz
TERMINAL BOARD
TO THE INDOOR UNIT
NOISE FILTER CIRCUIT
COMMUNICATION CIRCUIT
PFC CIRCUIT
RECTIFICATION CIRCUIT
CONTROL BOARD (HIC)
CONTROL BOARD (CR)
COMPRESSOR
COMPRESSOR TERMINAL
(REFER TO TERMINAL COVER FOR WIRE INSERT)
(TRADEMARK)
REACTOR
PTC
FUSE1-B 30A 250V
FUSE501 T3.15A L250V
CT1
Q701
RY502
RY501-B
FAN MOTOR
ELECTRO-MAGNETIC COIL (EXPANSION VALVE)
ELECTRO-MAGNETIC COIL (4-WAY VALVE)
HIGH PRESSURE SW.
OUTDOOR AIR TEMP. SENSOR (TO) (THERMISTOR)
COMPRESSOR DISCHARGE TEMP. SENSOR (TD) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C1) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C2) (THERMISTOR)
COMPRESSOR SUCTION TEMP. SENSOR (TS) (THERMISTOR)
REMARKS
WHT WHITE
YLW YEL YELLOW
BLU BLUE
PNK PINK
GRY GRAY
BLK BLACK
ORG ORANGE
BRW BROWN
VLT VIOLET
GRN GREEN
RED RED

3


ELECTRIC WIRING DIAGRAM
ACXF22-09021
POWER SUPPLY 220-230-240V ~ 50Hz
TERMINAL BOARD
TO THE INDOOR UNIT
NOISE FILTER CIRCUIT
COMMUNICATION CIRCUIT
PFC CIRCUIT
RECTIFICATION CIRCUIT
CONTROL BOARD (HIC)
CONTROL BOARD (CR)
COMPRESSOR
REACTOR
FAN MOTOR (TOP)
FAN MOTOR (BOTTOM)
ELECTRO-MAGNETIC COIL (EXPANSION VALVE)
ELECTRO-MAGNETIC COIL (4-WAY VALVE)
HIGH PRESSURE SW
COMPRESSOR SUCTION TEMP. SENSOR (TS) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C2) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C1) (THERMISTOR)
COMPRESSOR DISCHARGE TEMP. SENSOR (TD) (THERMISTOR)
OUTDOOR AIR TEMP. SENSOR (TO) (THERMISTOR)
COMPRESSOR TERMINAL
(REFER TO TERMINAL COVER FOR WIRE INSERT)
REMARKS
WHT WHITE
YLW YEL YELLOW
BLU BLUE
PNK PINK
GRY GRAY
BLK BLACK
ORG ORANGE
BRW BROWN
VLT VIOLET
GRN GREEN
RED RED


ELECTRIC WIRING DIAGRAM
ACXF22-09031
CONTROL BOARD (HIC)
CONTROL BOARD (CR)
NOISE FILTER CIRCUIT
RECTIFICATION CIRCUIT
RIPPLE FILTER CIRCUIT
COMMUNICATION CIRCUIT
COMPRESSOR
REACTOR
COMPRESSOR TERMINAL
(REFER TO TERMINAL COVER FOR WIRE INSERT)
(TRADEMARK)
REMARKS
WHT WHITE
YLW YEL YELLOW
BLU BLUE
PNK PINK
GRY GRAY
BLK BLACK
ORG ORANGE
BRW BROWN
VLT VIOLET
GRN GREEN
RED RED
TERMINAL BOARD
POWER SUPPLY 380-400-415V 3N~ 50Hz
TO THE INDOOR UNIT
FAN MOTOR
ELECTRO-MAGNETIC COIL (EXPANSION VALVE)
ELECTRO-MAGNETIC COIL (4-WAY VALVE)
HIGH PRESSURE SW.
COMPRESSOR SUCTION TEMP. SENSOR (TS) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C2) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C1) (THERMISTOR)
COMPRESSOR DISCHARGE TEMP. SENSOR (TD) (THERMISTOR)
OUTDOOR AIR TEMP. SENSOR (TO) (THERMISTOR)


ELECTRIC WIRING DIAGRAM
ACXF22-09041
CONTROL BOARD (HIC)
CONTROL BOARD (CR)
RECTIFICATION CIRCUIT
RIPPLE FILTER CIRCUIT
NOISE FILTER CIRCUIT
COMMUNICATION CIRCUIT
COMPRESSOR
REACTOR
COMPRESSOR TERMINAL
(REFER TO TERMINAL COVER FOR WIRE INSERT)
REMARKS
WHT WHITE
YLW YEL YELLOW
BLU BLUE
PNK PINK
GRY GRAY
BLK BLACK
ORG ORANGE
BRW BROWN
VLT VIOLET
GRN GREEN
RED RED
ELECTRO-MAGNETIC COIL (4-WAY VALVE)
HIGH PRESSURE SW.
COMPRESSOR SUCTION TEMP. SENSOR (TS) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C2) (THERMISTOR)
OUTDOOR HEAT EXCHANGER TEMP. SENSOR (C1) (THERMISTOR)
COMPRESSOR DISCHARGE TEMP. SENSOR (TD) (THERMISTOR)
OUTDOOR AIR TEMP. SENSOR (TO) (THERMISTOR)
TERMINAL BOARD
POWER SUPPLY 380-400-415V 3N~ 50Hz
TO THE INDOOR UNIT
TERMINAL BOARD
FAN MOTOR (TOP)
FAN MOTOR (BOTTOM)
ELECTRO-MAGNETIC COIL (EXPANSION VALVE)

4. CONTROL FUNCTIONS

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4-1. Room Temperature Control

4-1-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

- The body sensor or remote controller sensor detects temperature in the room. The detected temperature is called the room temperature. The body sensor is the one contained in the indoor unit.

	Body sensor is enabled	Remote controller sensor is enabled
Set temp.	Set temp. in remote controller	Set temp. in remote controller
Detected temp. by sensor	Detected temp. by body sensor	Detected temp. by remote controller sensor
Room temp.	Detected temp. by body sensor - *correction temp.	Detected temp. by remote controller sensor

- The thermostat is turned ON or OFF according to the following ΔT.

ΔT (Cooling)	ΔT = room temp. – set temp. (set temp. in remote controller)
ΔT (Heating)	ΔT = set temp. – room temp.

※ Correction temperature (only during heating)

If the indoor unit is installed on the ceiling, temperature near the ceiling is higher than near the floor. When the body sensor is enabled, lower temperature near the floor must be considered. To correct this difference in temperature, the correction temperature is used.

The factory setting for the correction temperature is different depending on the model. See “4-11. Parameter”.

Example: Cooling temperature correction
4-Way Cassette (correction temperature: 0 degrees)
Body sensor is enabled

Set temp. in remote controller	28℃	28℃	28℃
Detected temp. by sensor	30.0℃	26.5℃	26.0℃
Detected temp. by body sensor	30.0℃	26.5℃	26.0℃
Detected temp. by remote controller sensor	30.0℃	26.5℃	26.0℃
Room temp. = temp. detected by body sensor	30.0℃ =30.0	26.5℃ =26.5	26.0℃ =26.0
Δ T	+2.0deg	-1.5deg	-2.0deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Example: Heating temperature correction
4-Way Cassette (correction temperature: 4 degrees)
Body sensor is enabled

Set temp. in remote controller	20℃	20℃	20℃
Detected temp. by sensor	17.0℃	25.5℃	26.0℃
Detected temp. by body sensor	17.0℃	25.5℃	26.0℃
Detected temp. by remote controller sensor	13.0℃	21.5℃	22.0℃
Room temp. = temp. detected by body sensor – 4 deg	13.0℃ =17.0-4 deg	21.5℃ =25.5-4 deg	22.0℃ =26.0-4 deg
Δ T	+7.0deg	-1.5deg	-2.0deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Remote controller sensor is enabled

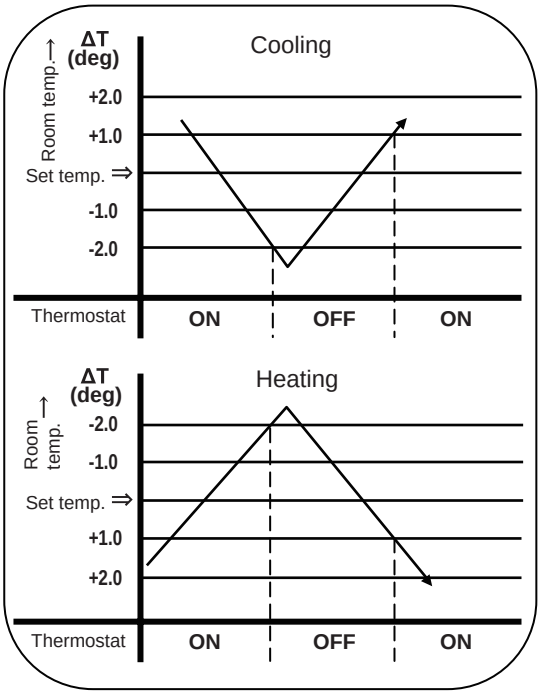
Set temp. in remote controller	28℃	28℃	28℃
Detected temp. by sensor	30.0℃	27.0℃	26.5℃
Detected temp. by body sensor	30.0℃	27.0℃	26.5℃
Detected temp. by remote controller sensor	30.0℃	27.0℃	26.5℃
Room temp. = temp. detected by remote controller sensor	30.0℃ =30.0	27.0℃ =27.0	26.5℃ =26.5
∆ T	+2.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Remote controller sensor is enabled

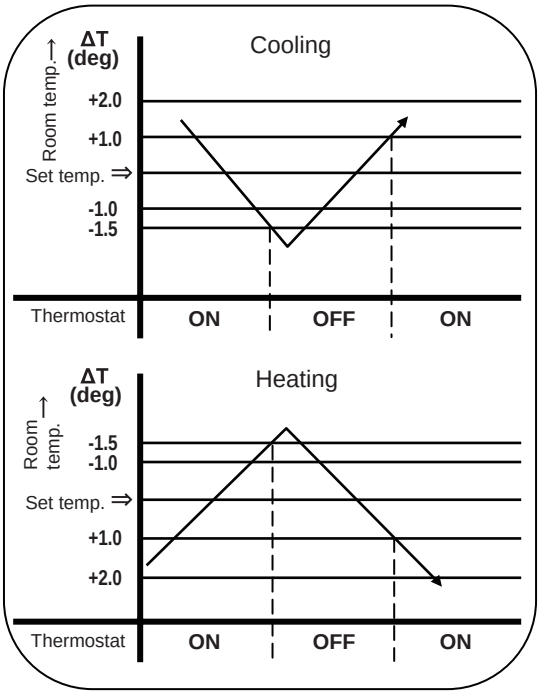
Set temp. in remote controller	20℃	20℃	20℃
Detected temp. by sensor	17.0℃	21.0℃	21.5℃
Detected temp. by body sensor	21.0℃	25.0℃	25.5℃
Detected temp. by remote controller sensor	17.0℃	21.0℃	21.5℃
Room temp. = temp. detected by remote controller sensor	17.0℃ =17.0	21.0℃ =21.0	21.5℃ =21.5
∆ T	+3.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

4

Body sensor is enabled



Remote sensor is enabled



(1) The thermostat does not turn ON 3 minutes after it turns OFF.

(2) The thermostat does not turn OFF for 60 minutes during the test run mode. (Forced thermostat ON)
*However, the thermostat turns OFF if an alarm occurs.

(3) The thermostat turns OFF when ∆T continues in thermostat OFF zone for 3 minutes.

4-1-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

- The body sensor or remote controller sensor detects temperature in the room. The detected temperature is called the room temperature. The body sensor is the one contained in the indoor unit.

	Body sensor is enabled	Remote controller sensor is enabled
Set temp.	Set temp. in remote controller	Set temp. in remote controller
Detected temp. by sensor	Detected temp. by body sensor	Detected temp. by remote controller sensor
Room temp.	Detected temp. by body sensor - *correction temp.	Detected temp. by remote controller sensor

- The thermostat is turned ON or OFF according to the following ΔT.

ΔT (Cooling)	ΔT = room temp. – set temp. (set temp. in remote controller)
ΔT (Heating)	ΔT = set temp. – room temp.

※Correction temperature (only during heating)

If the indoor unit is installed on the ceiling, temperature near the ceiling is higher than near the floor. When the body sensor is enabled, lower temperature near the floor must be considered. To correct this difference in temperature, the correction temperature is used.

The factory setting for the correction temperature is different depending on the model. See “4-11. Parameter”.

Example: Cooling temperature correction
4-Way Cassette (correction temperature: 0 degrees)
Body sensor is enabled

Set temp. in remote controller	28℃	28℃	28℃
Detected temp. by sensor	30.0℃	27.0℃	26.5℃
Detected temp. by body sensor	30.0℃	27.0℃	26.5℃
Detected temp. by remote controller sensor	30.0℃	27.0℃	26.5℃
Room temp. = temp. detected by body sensor	30.0℃ =30.0	27.0℃ =27.0	26.5℃ =26.5
Δ T	+2.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Example: Heating temperature correction
4-Way Cassette (correction temperature: 4 degrees)
Body sensor is enabled

Set temp. in remote controller	20℃	20℃	20℃
Detected temp. by sensor	17.0℃	25.0℃	25.5℃
Detected temp. by body sensor	17.0℃	25.0℃	25.5℃
Detected temp. by remote controller sensor	13.0℃	21.0℃	21.5℃
Room temp. = temp. detected by body sensor – 4 deg	13.0℃ =17.0-4 deg	21.0℃ =25.0-4 deg	21.5℃ =25.5-4 deg
Δ T	+7.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Remote controller sensor is enabled

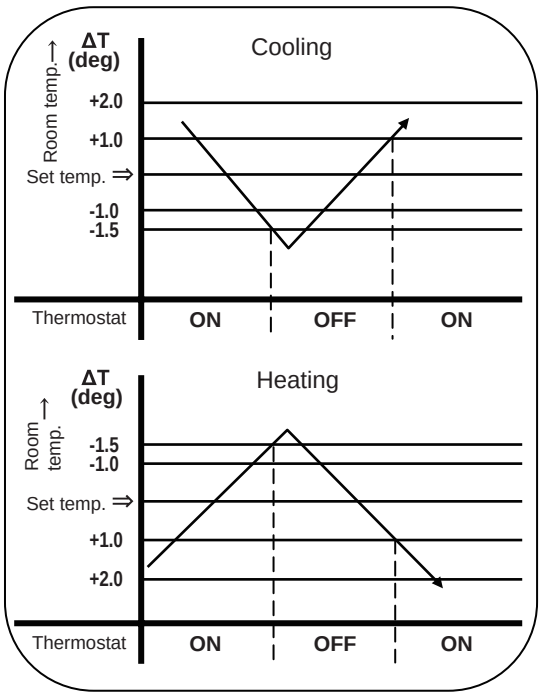
Set temp. in remote controller	28℃	28℃	28℃
Detected temp. by sensor	30.0℃	27.0℃	26.5℃
Detected temp. by body sensor	30.0℃	27.0℃	26.5℃
Detected temp. by remote controller sensor	30.0℃	27.0℃	26.5℃
Room temp. = temp. detected by remote controller sensor	30.0℃ =30.0	27.0℃ =27.0	26.5℃ =26.5
Δ T	+2.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Remote controller sensor is enabled

Set temp. in remote controller	20℃	20℃	20℃
Detected temp. by sensor	17.0℃	21.0℃	21.5℃
Detected temp. by body sensor	21.0℃	25.0℃	25.5℃
Detected temp. by remote controller sensor	17.0℃	21.0℃	21.5℃
Room temp. = temp. detected by remote controller sensor	17.0℃ =17.0	21.0℃ =21.0	21.5℃ =21.5
Δ T	+3.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

4

Body sensor is enabled
Remote sensor is enabled



(1) The thermostat does not turn OFF for 5 minutes after it turns ON.

(2) The thermostat does not turn ON 3 minutes after it turns OFF.

(3) The thermostat does not turn OFF for 60 minutes during the test run mode. (Forced thermostat ON)
*However, the thermostat turns OFF if an alarm occurs.

(4) The thermostat turns OFF when ΔT continues in thermostat OFF zone for 3 minutes.

4-1-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

- The body sensor or remote controller sensor detects temperature in the room. The detected temperature is called the room temperature. The body sensor is the one contained in the indoor unit.

	Body sensor is enabled	Remote controller sensor is enabled
Set temp.	Set temp. in remote controller	Set temp. in remote controller
Detected temp. by sensor	Detected temp. by body sensor	Detected temp. by remote controller sensor
Room temp.	Detected temp. by body sensor - *correction temp.	Detected temp. by remote controller sensor

- The thermostat is turned ON or OFF according to the following ΔT.

ΔT (Cooling)	ΔT = room temp. – set temp. (set temp. in remote controller)
ΔT (Heating)	ΔT = set temp. – room temp.

※Correction temperature (only during heating)

If the indoor unit is installed on the ceiling, temperature near the ceiling is higher than near the floor. When the body sensor is enabled, lower temperature near the floor must be considered. To correct this difference in temperature, the correction temperature is used.

The factory setting for the correction temperature is different depending on the model. See “4-11. Parameter”.

Example: Cooling temperature correction
4-Way Cassette (correction temperature: 0 degrees)
Body sensor is enabled

Set temp. in remote controller	28℃	28℃	28℃
Detected temp. by sensor	30.0℃	27.0℃	26.5℃
Detected temp. by body sensor	30.0℃	27.0℃	26.5℃
Detected temp. by remote controller sensor	30.0℃	27.0℃	26.5℃
Room temp. = temp. detected by body sensor	30.0℃ =30.0	27.0℃ =27.0	26.5℃ =26.5
Δ T	+2.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Example: Heating temperature correction
4-Way Cassette (correction temperature: 4 degrees)
Body sensor is enabled

Set temp. in remote controller	20℃	20℃	20℃
Detected temp. by sensor	17.0℃	25.0℃	25.5℃
Detected temp. by body sensor	17.0℃	25.0℃	25.5℃
Detected temp. by remote controller sensor	13.0℃	21.0℃	21.5℃
Room temp. = temp. detected by body sensor – 4 deg	13.0℃ =17.0-4 deg	21.0℃ =25.0-4 deg	21.5℃ =25.5-4 deg
Δ T	+7.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Remote controller sensor is enabled

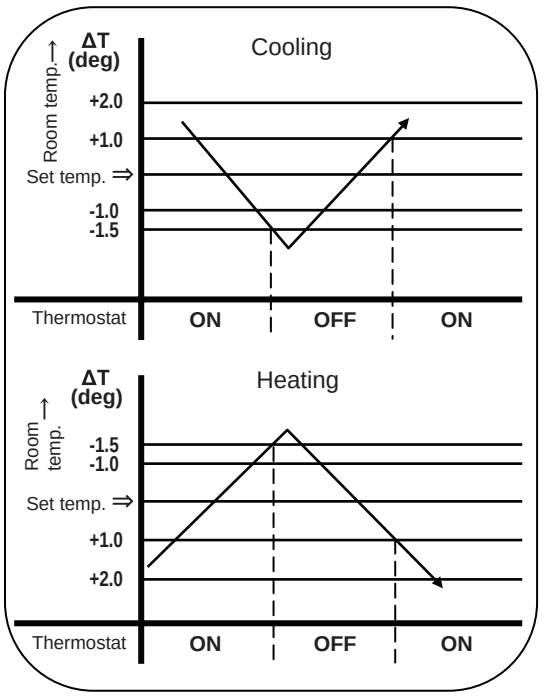
Set temp. in remote controller	28℃	28℃	28℃
Detected temp. by sensor	30.0℃	27.0℃	26.5℃
Detected temp. by body sensor	30.0℃	27.0℃	26.5℃
Detected temp. by remote controller sensor	30.0℃	27.0℃	26.5℃
Room temp. = temp. detected by remote controller sensor	30.0℃ =30.0	27.0℃ =27.0	26.5℃ =26.5
Δ T	+2.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

Remote controller sensor is enabled

Set temp. in remote controller	20℃	20℃	20℃
Detected temp. by sensor	17.0℃	21.0℃	21.5℃
Detected temp. by body sensor	21.0℃	25.0℃	25.5℃
Detected temp. by remote controller sensor	17.0℃	21.0℃	21.5℃
Room temp. = temp. detected by remote controller sensor	17.0℃ =17.0	21.0℃ =21.0	21.5℃ =21.5
Δ T	+3.0deg	-1.0deg	-1.5deg
	Thermostat ON	Thermostat ON	Thermostat OFF

4

Body sensor is enabled
Remote sensor is enabled



(1) The thermostat does not turn OFF for 5 minutes after it turns ON.

(2) The thermostat does not turn ON 3 minutes after it turns OFF.

(3) The thermostat does not turn OFF for 60 minutes during the test run mode. (Forced thermostat ON)
*However, the thermostat turns OFF if an alarm occurs.

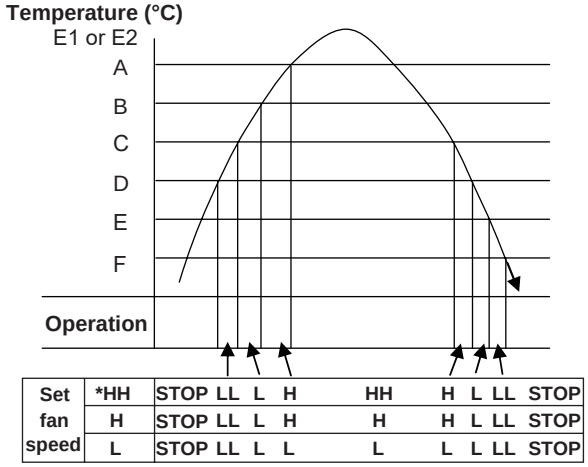
(4) The thermostat turns OFF when ΔT continues in thermostat OFF zone for 3 minutes.

4-2. Heating Standby

- In heating mode, the indoor fan speed decreases to prevent cold air discharge from the indoor unit. During this time, ❋ (heating standby) is displayed on the remote controller.
  (1) This condition occurs in the following cases.
  - Thermostat OFF
  - Defrosting operation
  - Indoor heat exchanger liquid temperature (E1 or E2) < X˚C just after heating operation started the fan speed may sometimes increase when this condition continues for 6 minutes.

Indoor unit type	U3	F3	K3	T3	Y3
X (˚C)	20	22	23	22	20

(2) The fan mode increases when the heat exchanger liquid temperature (E1 or E2) or discharge air temperature increases.
* The fan mode is selected based on E1 temperature and E2 temperature as shown in the below figure. If the E1 temperature and E2 temperature are different, the higher temperature is used.



Set fan speed											
	*HH	STOP	LL	L	H	HH	H	L	LL	STOP
	H	STOP	LL	L	H	H	H	L	LL	STOP
	L	STOP	LL	L	L	L	L	L	LL	STOP

Indoor unit type	U3	F3	K3	T3	Y3
A	24	26	27	26	24
B	22	24	25	24	22
C	20	22	23	22	20
D	18	20	21	20	18
E	12	14	15	14	12
F	8	10	11	10	8

* The function of “HH” is identical to the automatic fan speed mode.

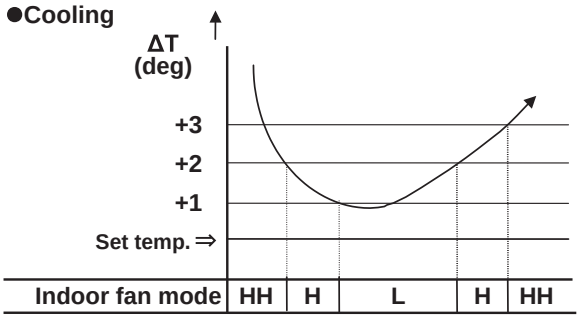
4-3. Automatic Fan Speed Control

(1) The indoor fan mode is controlled as shown below during the automatic fan mode.

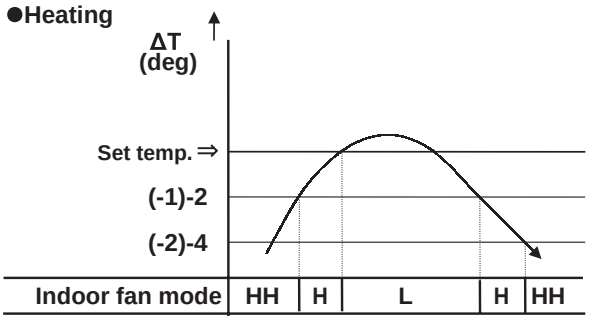
(2) The fan mode does not change for 3 minutes during cooling operation and 1 minute during heating operation once it is changed.

(3) The values in the parenthesis are when the remote controller sensor is enabled.

●Cooling



●Heating



4

4-4. Drain Pump Control

The drain pump operates in the following conditions.

(1) Cooling thermostat ON

(2) The float switch worked.

(3) The drain pump may often operate for a while when the cooling thermostat turns OFF or the indoor unit is stopped.

(4) The drain pump can be turned on when the cooling thermostat is OFF if the setting is made to prevent water collected in the drain pan for a long time. For details, see “7-3. Detailed Settings Function”.

(5) The indoor unit heat exchanger liquid temperature (E1 or E2) is less than 0˚C.

※ The drain pump operates for 20 minutes once it starts operating.

4-5. Automatic Heating/Cooling Control

(1) The operating mode is selected according to the set temperature and room temperature when the operation is started.
Room temperature ≥ set temperature in remote controller – 1˚C → Cooling mode
Room temperature < set temperature in remote controller – 1˚C → Heating mode

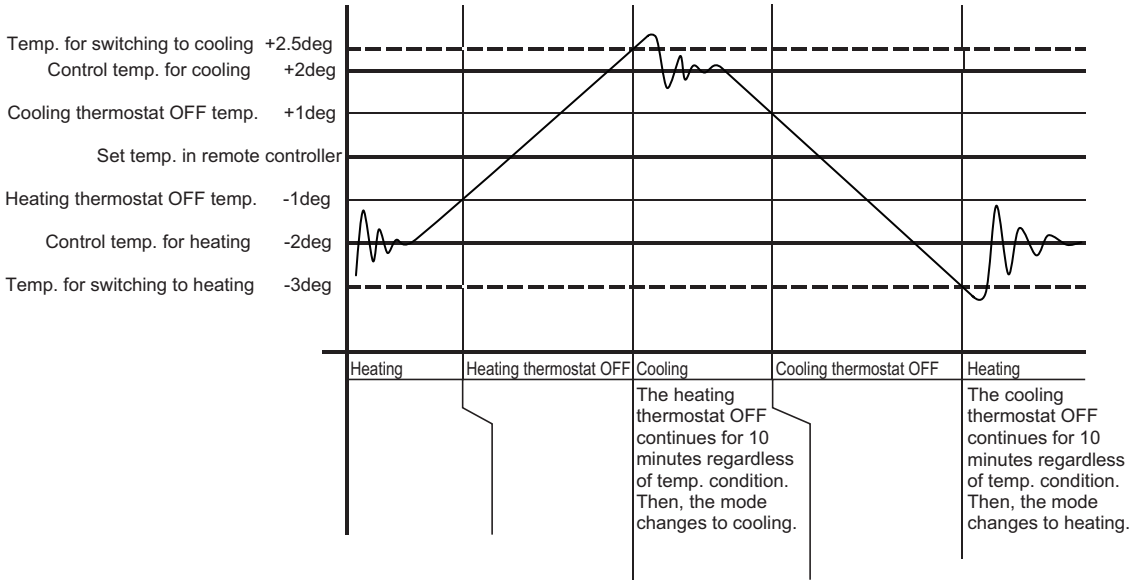
(2) The set temperature is corrected according to the operating mode. The correction temperature is +2 degrees in cooling mode and -2 degrees in heating mode at the time of factory shipment.
※ The correction value is different depending on the model. See “4-11. Parameter” for details.
Corrected cooling temperature – control temperature for cooling
Corrected heating temperature − control temperature for heating

When setting temperature in remote controller is 20˚C in the cooling mode (at shipment) :

Control temp. for cooling	22˚C
Set temp. in remote controller	20˚C
Control temp. for heating	18˚C

(3) Condition for mode change
Heating → Cooling: Room temperature ≥ Control temperature for cooling + 0.5 degree
Cooling → Heating: Room temperature ≤ Control temperature for heating -1.0 degree

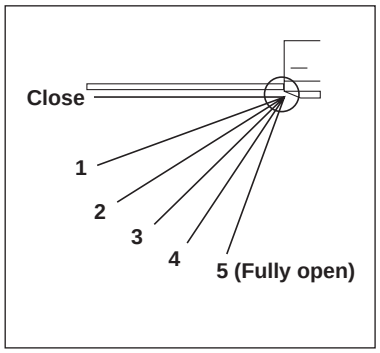
When setting temperature in remote controller is 20˚C in the cooling mode :



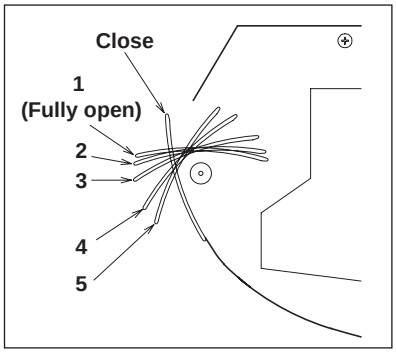
For settings at the time of factory shipment, see “4-11. Parameter”.

4-6. Automatic Flap Control

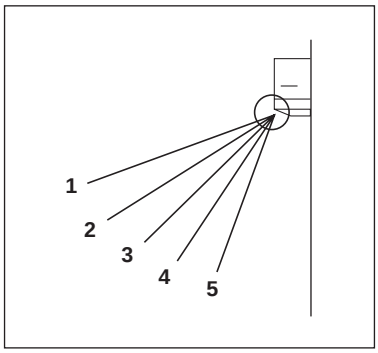
- The flap position can be selected from 5 positions.



4-Way Cassette Type
4-Way Cassette 60 × 60 Type



Ceiling Type



Wall Mounted Type

Operating mode	Flap position
Cooling/Dry	1 • 2 • 3 • 4* • 5*
Fan	1 • 2 • 3 • 4 • 5
Heating	1 • 2 • 3 • 4 • 5

* U3, Y3

(1) The flap will be closed automatically when the indoor unit is stopped.
Close: 4-Way Cassette Type, Wall Mounted Type, Ceiling Type, 4-Way Cassette 60 × 60 Type

(2) For 4-Way cassette type (U3) and 4-Way Cassette 60 × 60 Type (Y3), the flap closes once and moves to the set position when the operating mode is changed.

NOTE

Do not change the flap position manually.

- Only the swing operation can be used.
- The swing operation can be set for the flap.

4-7. Filter Sign

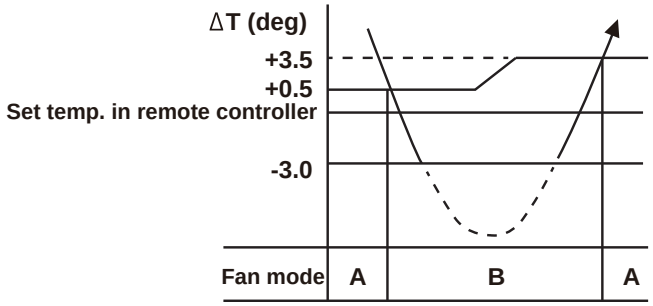
(1) When accumulated operating time of the indoor unit reaches the set time, the filter sign appears on the remote controller. Clean the filter.
See Item code 01~02 under “7-2. List of Simple Setting Items” and “Filter sign ON times for each model” under “7-5. Simple Setting Items”.

(2) After cleaning the filter, press the filter button on the remote controller once. The filter sign turns off.

4-8. Fan Control during Dry Mode

The fan control during dry mode is as follows.

4-8-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5



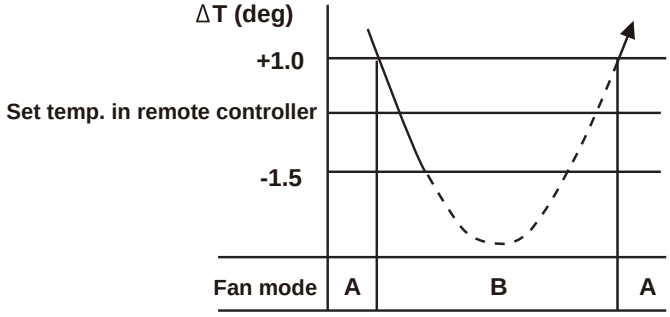
A:Fan mode is set in the remote controller

B:Fan mode is DRY-L during thermostat ON, LL during thermostat OFF

(L ≥ DRY-L ≥ LL)

4

4-8-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5 U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

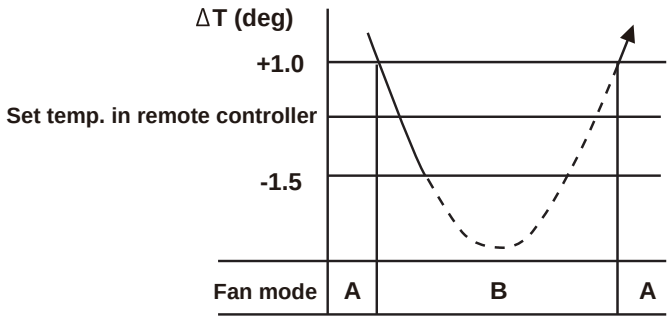


A:Fan mode is set in the remote controller

B:Fan mode is DRY-L during thermostat ON, LL during thermostat OFF

(L ≥ DRY-L ≥ LL)

4-8-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5 U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8



A:Fan mode is set in the remote controller

B:Fan mode is DRY-L during thermostat ON, LL during thermostat OFF

(L ≥ DRY-L ≥ LL)

4-9. Ventilation Fan Output

- The output of ventilation turns ON when the indoor unit turns ON. Also, when the indoor unit turns OFF, the output of the ventilation turns OFF.
- The ventilation fan can also be turned ON and OFF using the ventilation button on the remote controller.

Refer to the operating instructions supplied with the remote controller.

To enable this function, set the indoor EEPROM DN31 to “0001” in advance.

4-10. T10 Terminal

Using the T10 terminal, each indoor unit can be operated or stopped separately. Also, operating condition can be checked.

4-11. Parameter

Type	Model	Indoor item code "06"	Indoor item code "1E"	Indoor item code "86"
		Correction temp. (heating)	Heat/cool switching correction temp. (automatic heat/cool)	Fan speed when cooling thermostat OFF
		Setting at time of factory shipment	Setting at time of factory shipment	Setting at time of factory shipment
U3	4-Way Cassette	4 deg	2 deg	LL
F3	Middle Static Pressure Duct	4 deg	2 deg	LL
K3	Wall Mounted	2 deg	2 deg	LL
T3	Ceiling	4 deg	2 deg	LL
Y3	4-Way Cassette 60 × 60	4 deg	2 deg	LL

The parameter may sometimes increase or decrease in accordance with the outdoor temperature, the use of indoor fan tap and operating mode.

4-12. Control Functions

4-12-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

4-12-1-1. Compressor Frequency Control

The frequency of the compressor's inverter is limited by either of the following controls depending on whether the cooling or heating mode is in operation.

Cooling Mode :

- Indoor air temperature control
- Maximum and minimum frequency control
- Current release control
- Cooling high-load prevention control
- Cooling freeze prevention control
- Discharge temperature control

Heating Mode :

- Indoor air temperature control
- Maximum and minimum frequency control
- Current release control
- Heating high-load prevention control
- Discharge temperature control

1) Maximum and Minimum Frequency Control

The compressor's inverter frequency is controlled in accordance with the model and operation mode.
The maximum and minimum frequencies for each model are shown in the table below.

* There are cases in which frequency is limited with other control functions depending on operational conditions, so operations are not always carried out in accordance with the maximum frequencies listed below.

· Maximum and Minimum Frequency

Type			PZ3					PZH3		
Model name (U-)			25PZ3E5	36PZ3E5	50PZ3E5	60PZ3E5A	71PZ3E5A	36PZH3E5	50PZH3E5	60PZH3E5
Indoor	Maximum Frequency (Hz)	Cooling	65	65	73	97	64	52	88	97
		Heating	80	80	90	110	70	90	102	115
Outdoor	Minimum Frequency (Hz)	Cooling	20	20	15	15	16	15	15	15
		Heating	20	20	15	15	16	15	15	15

* There is a case in which the frequency set at maximum and minimum may sometimes decrease in accordance with ambient temperature and indoor loads.

2) Current Release Control

The inverter frequency is controlled so that the current value for the inverter compressor is less than the figure listed in the table below in order to prevent abnormal increases in the inverter circuit included in the electrical component box of the outdoor unit.

Current release control with primary current : The limited values are modified in accordance with ambient temperature.

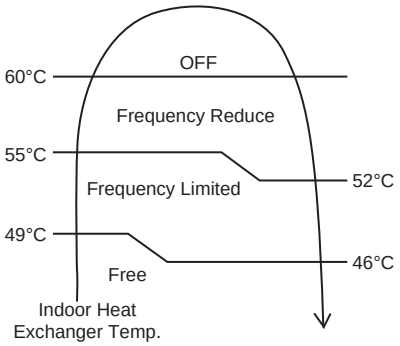
Type			PZ3					PZH3		
Model name (U-)			25PZ3E5	36PZ3E5	50PZ3E5	60PZ3E5A	71PZ3E5A	36PZH3E5	50PZH3E5	60PZH3E5
Outdoor	Is (A)	Cooling	7.86	7.86	8.87	11.22	13.49	5.88	10.05	11.22
		Heating	8.01	8.01	9.59	10.59	11.22	6.97	9.78	10.59

3) Cooling Overload Control

- Detects the outdoor pipe temperature and carry out below restriction/limitation (Limit the compressor operation frequency).
- The compressor stop if outdoor pipe temperature exceeds 60°C.

4) Heating Overload Control

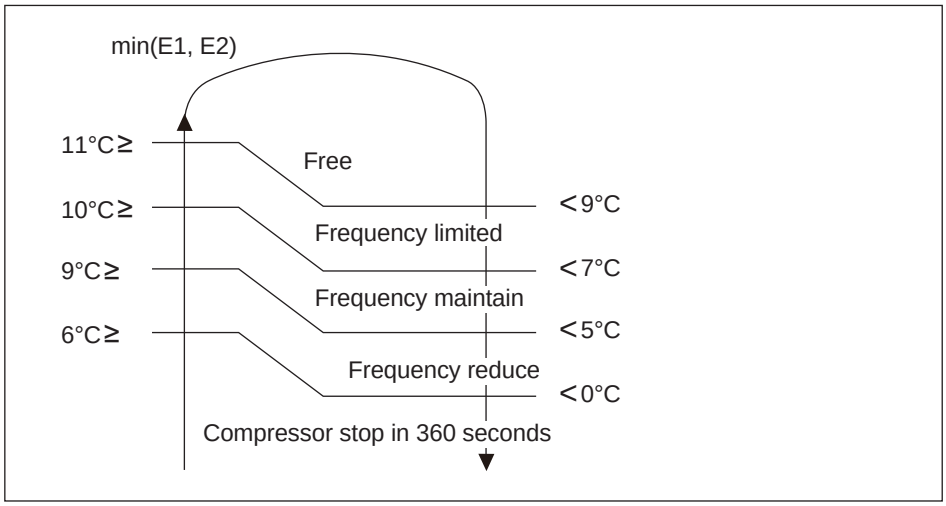
- The compressor operating frequency is regulated in accordance to indoor heat exchanger temperature as shown below.
- If the heat exchanger temperature exceeds 60°C, compressor will stop.



4

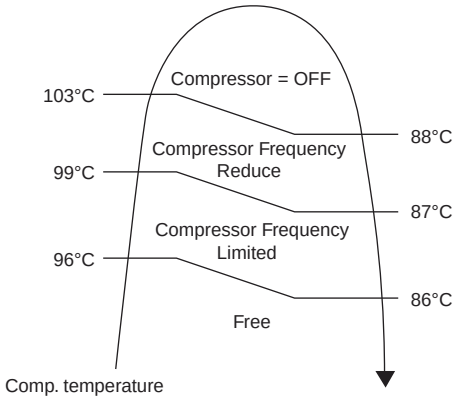
5) Cooling Freeze Prevention Control

The following control is performed during cooling operations (including dry mode operation), in accordance with whichever of the indoor heat exchanger temperatures (E1 or E2) is lower. (See the chart below.)
(a) Frequency will not be decreased less than 5.5 minutes after thermostat ON.
(b) The threshold value is increased in accordance with the indoor load (differences of temperature).



6) Compressor Overheating Prevention Control

- Instructed frequency for compressor operation will be regulated by compressor temperature. The changes of frequency are as below.
- If compressor temperature exceeds 103°C, compressor will be stopped.

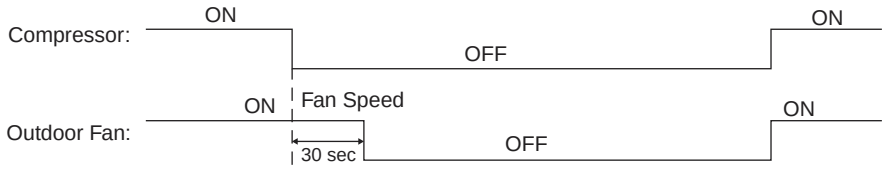


4-12-1-2. Deice Operation

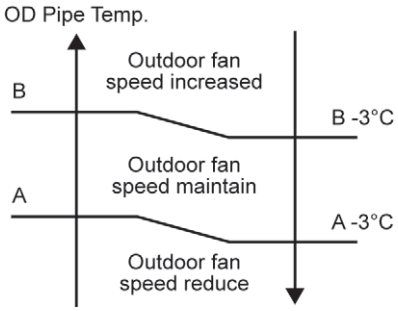
When outdoor pipe temperature and outdoor air temperature is low, deice operation start where indoor fan motor and outdoor fan motor stop.

4-12-1-3. Outdoor Fan Motor Operation

Outdoor fan motor is operated with various fan speeds with compressor RPM. It starts when compressor starts operation and it stops 30 seconds after compressor stops operation.

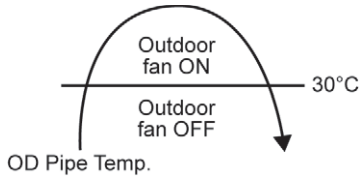


- During cooling operation, and outdoor ambient temperature is below 8°C, outdoor fan speed will be controlled according to outdoor piping temperature as following:



	OD Pipe Temperature
A	26°C
B	33°C

- During above condition, when indoor heat exchanger temperature is below 5°C, the outdoor fan will stop according to outdoor piping temperature as following:



4-12-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

4-12-2-1. Indoor Air Temperature Control

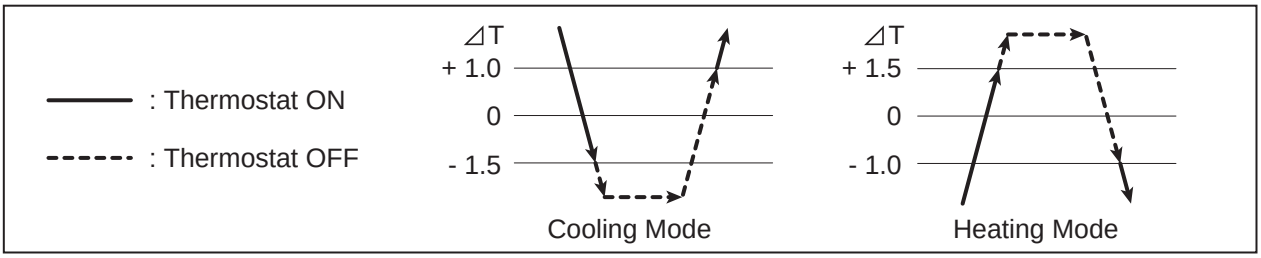
The thermostat is switched on and off in accordance with ⊿T shown below.

⊿T= (Indoor air temperature) - (Temperature set with the remote controller)	
In the body thermostat mode (setting at factory shipment)	Indoor air temperature = (Body sensor) - (Shift temperature *)
In the remote controller thermostat mode	Indoor air temperature = (Remote controller sensor)

* Shift Temperature
Only valid during heating operation. Set at 0 °C during cooling operation.
The settings at factory shipment during heating operation are as follows:

Wall Mounted type : 2°C
Floor Standing type : 0°C
All other types (4-way types, Concealed types, etc.) : 4°C

This function acts as the coefficient for adjusting differences in temperature caused by the height of the living space from the floor to the ceiling (the temperature at ceiling height is higher) during heating operation.
The setting can be modified between 0°C and 6°C with mode [06] (Simple Settings Function) on the remote controller.



(1) Once the thermostat has been switched on, it cannot be switched off again by indoor air temperature control for a period of 5 minutes.
(2) Once the thermostat has been switched off, it cannot be switched on again for a period of 3 minutes.
(3) When in the test run operation mode, the thermostat will not be switched off by indoor air temperature control and the operation will continue.
(4) The thermostat turns off when ΔT continues in thermostat OFF zone for 3 minutes.

4-12-2-2. Compressor Frequency Control

The frequency of the compressor's inverter is limited by either of the following controls depending on whether the cooling or heating mode is in operation.

Cooling Mode :
- Indoor air temperature control
- Maximum and minimum frequency control
- Current release control
- Cooling high-load prevention control
- Cooling freeze prevention control
- Discharge temperature control

Heating Mode :
- Indoor air temperature control
- Maximum and minimum frequency control
- Current release control
- Heating high-load prevention control
- Discharge temperature control

1) Indoor Air Temperature Control

By the control method, not only the thermostat is switched on and off, as explained section “4-12-2-1. Indoor Air Temperature Control”, but also the frequency of the compressor's inverter is controlled in accordance with ⊿T and fluctuations in indoor air temperature. Inverter frequency is controlled as follows:

When ⊿T is high (not yet reached the temperature set with the remote controller).	Controlled so that the inverter frequency is increased.
When ⊿T is low (approximately +1.0 or less in the cooling mode or approximately -1.0 or more in the heating mode).	Controlled so that the inverter frequency is decreased or kept.

2) Maximum and Minimum Frequency Control

The compressor's inverter frequency is controlled in accordance with the model and operation mode.
The maximum and minimum frequencies for each model are shown in the table below.

* There are cases in which frequency is limited with other control functions depending on operational conditions, so operations are not always carried out in accordance with the maximum frequencies listed below.

· Maximum and Minimum Frequency

Type		PZ3		
Model name (U-)		100PZ3E5 100PZ3E8	125PZ3E5 125PZ3E8	140PZ3E5 140PZ3E8
Maximum Frequency (Hz)	Cooling	70	65	69
	Heating	99	95	99
Minimum Frequency (Hz)	Cooling	12	10.5	11
	Heating	15	12	12

* There is a case in which the frequency set at maximum and minimum may sometimes decrease in accordance with ambient temperature and indoor loads.

3) Current Release Control

The inverter frequency is controlled so that the current value for the inverter compressor is less than the figure listed in the table below in order to prevent abnormal increases in the inverter circuit included in the electrical component box of the outdoor unit.

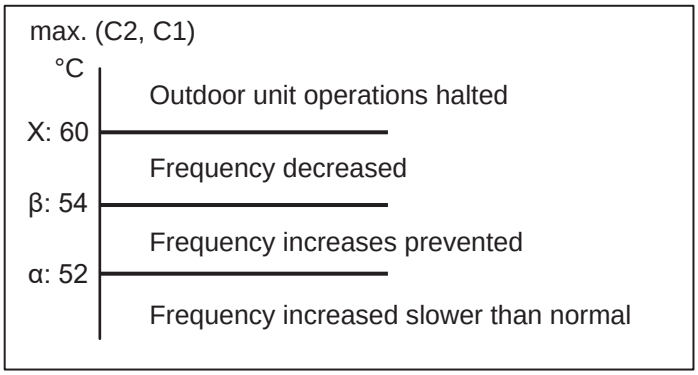
Current release control with primary current : The limited values are modified in accordance with ambient temperature.

Type		PZ3					
Model name (U-)		100PZ3E5	100PZ3E8	125PZ3E5	125PZ3E8	140PZ3E5	140PZ3E8
Is (A)	Cooling	23	8.2	27	9.2	27.5	9.5
	Heating	23.5	8.5	28	9.5	29	10

4) Condensation Temperature Control (cooling)

This system control is performed to limit the inverter frequency in order to restrict high pressure's abnormal increase and high-load operating prevention in the cooling mode.
In accordance with the temperature of the outdoor heat exchanger temperature sensors (C1, C2), such controls are performed as to halting the operations of the indoor unit, decreasing the inverter frequency and restricting its increase, etc.

(a) The threshold value is decreased in accordance with the compressor frequency or indoor load (differences of temperature).
(b) When "X" values are lowered, the results basically become β=X-2, α=X-3.



CODE: 30D (for X setting *2)

Setting No.	1	2	3	4 *1	5
X (°C)	52	56.5	58.5	60	62

CODE: 30E (for α setting *2)
CODE: 30F (for β setting *2)

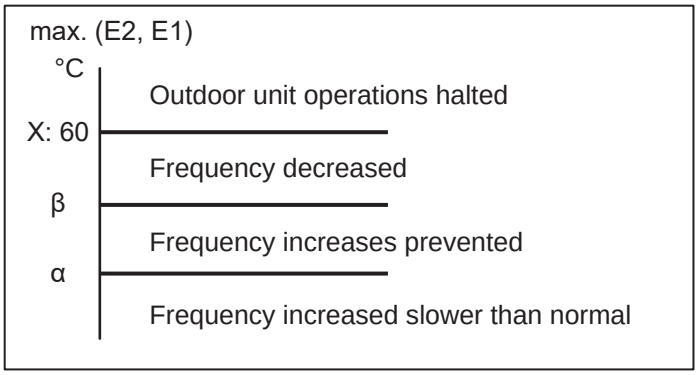
EEPROM			*1
α	-10	～	0
β	-10	～	0

*1 Setting at factory shipment
*2 Use the CZ-RTC6 series remote controller for setting
See "7-3. Detailed Settings Function"

5) Condensation Temperature Control (heating)

This system control is performed to limit the inverter frequency in order to restrict high pressure's abnormal increase and high-load operating prevention in the heating mode.
In accordance with the temperature of the indoor heat exchanger temperatures sensor (E1, E2), such controls are performed as to halting the operations of the indoor unit, decreasing the inverter frequency and restricting its increase, etc.

(a) The threshold value is decreased in accordance with the compressor frequency or indoor load (differences of temperature).
(b) When "X" values are lowered, the results basically become β=X-2, α=X-3.



CODE: 30D (for X setting *2)

Setting No.	1	2	3	4 *1	5
X (°C)	52	56.5	58.5	60	62

CODE: 308 (for α setting *2)
CODE: 309 (for β setting *2)

EEPROM			*1
α	-10	～	0
β	-10	～	0

*1 Setting at factory shipment
*2 Use the CZ-RTC6 series remote controller for setting
See "7-3. Detailed Settings Function"

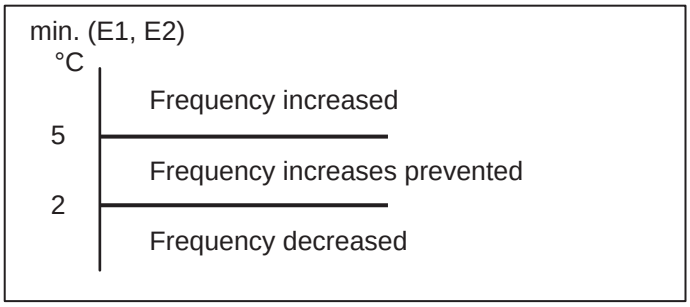
Model name (U-)	100PZ3E5 100PZ3E8	125PZ3E5 125PZ3E8	140PZ3E5 140PZ3E8
α	47	47	47
β	51	51	51

6) Cooling Freeze Prevention Control

The following control is performed during cooling operations (including dry mode operation), in accordance with whichever of the indoor heat exchanger temperatures (E1 or E2) is lower. (See the chart below.)

(a) Frequency will not be decreased less than 6 minutes after thermostat ON.

(b) The threshold value is increased in accordance with the indoor load (differences of temperature).



CODE: 30A (for α setting *2)
CODE: 30B (for β setting *2)

EEPROM			*1		
α	-15	.....	0	.....	9
β	-15		0		9

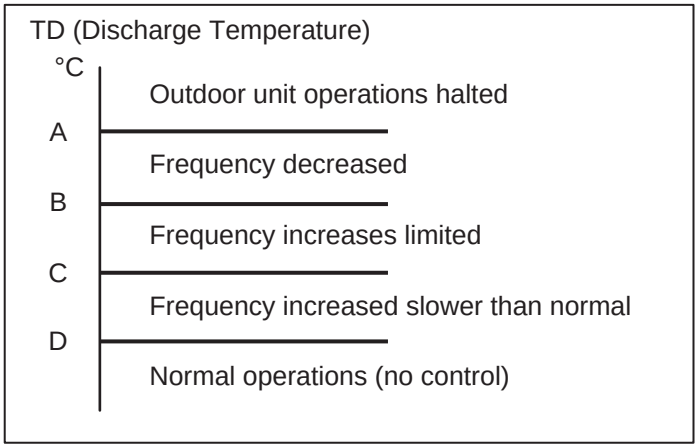
*1 Setting at factory shipment

*2 Use the CZ-RTC6 series remote controller for setting
See “7-3. Detailed Settings Function”

4

7) Discharge Temperature Control

The following control is performed to prevent the discharge temperature from rising abnormally in order to protect the inverter compressor.
In accordance with the temperature of the discharge sensor TD, such controls are performed as to limiting the increase of inverter frequency, decreasing it or halting operation of the compressor.



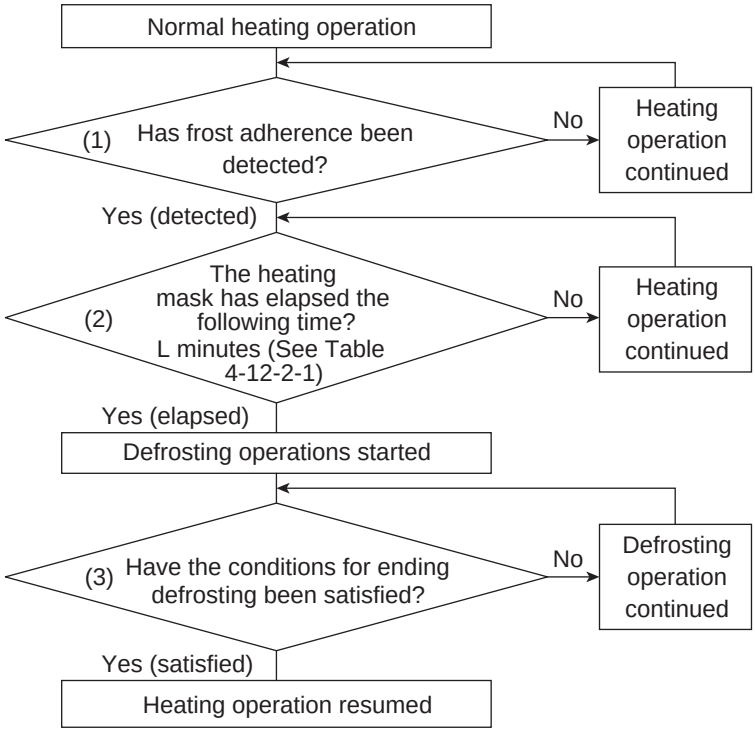
Model name (U-)	100PZ3E5 100PZ3E8	125PZ3E5 125PZ3E8	140PZ3E5 140PZ3E8
A	103	103	103
B	92	92	92
C	88	88	88
D	86	86	86

* If the discharge temperature exceeds A°C, operations of the compressor are halted and restarted after 3 minutes.
If this start/stop activity is repeated 5 times, the alarm "P03" (abnormal discharge temperature) occurs.

8) Defrosting Control

This control function removes frost that has adhered to the outdoor heat exchanger during the heating operation. The control is performed to prevent the deterioration of the heating capabilities attributed to the adherence of frost, and to prevent the crack or crush of pipes attributed to the accretion of ice.
The following control is performed in accordance with the ambient temperature and the outdoor heat exchanger temperature sensor (C1).

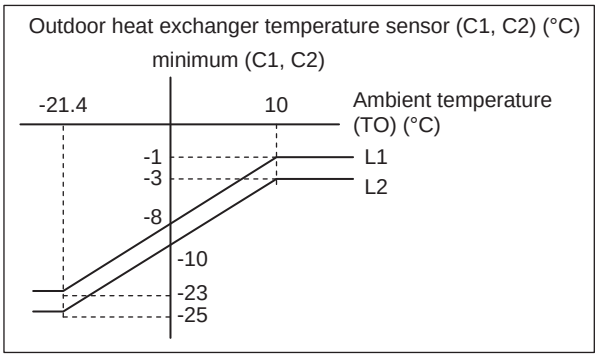
Overall Flow Chart of Defrosting Control



(1) Frost adherence detection

- If the following conditions are satisfied during heating operations, it is regarded as "frost adherence is detected".
- Frost adherence detection is performed in accordance with the ambient temperature (TO) and the outdoor heat exchanger temperature sensor (C1, C2).
- Frost adherence detection conditions
  (a) Outdoor heat exchanger temperature sensor (minimum [C1, C2]) ≤ L1 elapsed 60 minutes (accumulated time).
  (b) Outdoor heat exchanger temperature sensor (minimum [C1, C2]) ≤ L2 elapsed consecutive M minutes (See Table 4-12-2-1) × 2 times.

<U-100PZ3E5, U-125PZ3E5, U-140PZ3E5, U-100PZ3E8, U-125PZ3E8, U-140PZ3E8>



(c) Outdoor heat exchanger temperature (C1) < -3 °C is detected over N minutes (accumulated time) (See Table 4-12-2-1).

(2) Heating Mask Time

This refers to the shortest time that heating operations must be performed without defrosting operations being executed. The mask time for this model is L minutes (See Table 4-12-2-1).

* Defrosting operations will not be started until the defrosting mask time has elapsed, even if frost adherence has been detected.

(3) Ending Defrosting

Defrosting operations are ended when the following conditions are satisfied.

- Ending defrosting conditions

(a) When the temperature of the outdoor heat exchanger temperature sensor (C1) is over P °C (See Table 4-12-2-1).

(b) When the temperature of the outdoor heat exchanger temperature sensor (C1) is 6°C or higher for consecutive 60 seconds.

(c) When a maximum of 15 minutes defrosting time has elapsed.

Table 4-12-2-1. Set Value of Defrosting Control

Model name (U-)	100PZ3E5 100PZ3E8	125PZ3E5 125PZ3E8	140PZ3E5 140PZ3E8
L : Heating mask time	35	35	35
M : Frost adherence detection continuous time	4	4	4
N : Accumulated time less than -3°C	80	80	80
P : Ending defrosting C1 temperature	10	10	10

9) Outdoor Unit Fan Control

The appropriate rotations per minute for the outdoor unit fan are determined in accordance with the ambient temperature and the frequency of the compressor inverter.
The outdoor unit fan step is controlled between a range of W1 (Step 1) and WF (Step 15).

10) Outdoor Unit's Electrical Expansion Valve Control

The electrical expansion valve controls the amount of refrigerant that is allowed to flow in accordance with the operation status.
The valve is adjusted in accordance with the discharge temperature (TD), the outdoor heat exchanger temperature sensor (C1), the suction temperature sensor (TS), and the indoor unit's heat exchanger temperature sensors (E1 and E2).

(1) Cooling Mode

Controlled so that the suction temperature (TS) - indoor heat exchanger temperature minimum (E1 and E2) is between 0 degree and 2 degrees under normal conditions.
There are cases where the aperture opens wider than normal operation if the discharge temperature increases.

(2) Heating Mode

Controlled so that the suction temperature (TS) - outdoor heat exchanger temperature (C1) is between 0 degree and 2 degrees under normal conditions.
There are cases where the aperture opens wider than normal operation if the discharge temperature increases.

11) Demand Control

There are two styles of demand operations available in methods of restraining power consumption.

When sending the demand signal from an external input, use the OPT terminal on indoor unit control PCB or MINI Seri-Para I/O Unit

For details of the OPT terminal on the indoor unit control PCB, see “4-13. Indoor Unit Control PCB Switches and Functions”.

Wiring example

Connect the wiring with reference to Fig. 4-12-2-1 and Table 4-12-2-2.

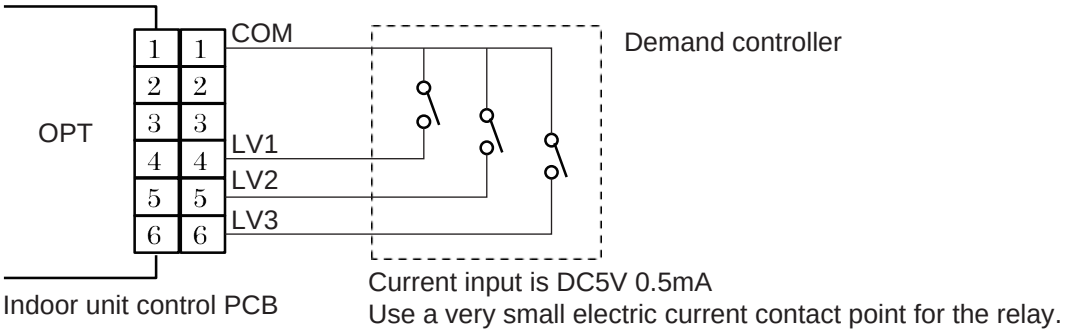


Fig. 4-12-2-1

LV1, LV2, LV3 / Use this terminal for demand control.

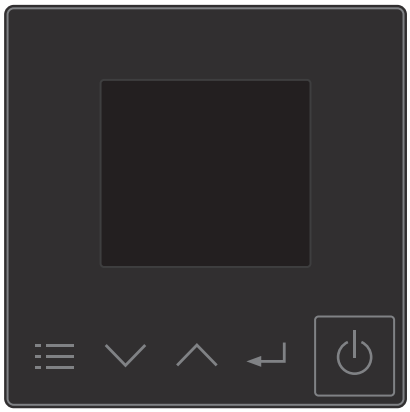
- When using the demand function, use the CZ-RTC6 series remote controller for setting.

● **When setting the demand function using a wired remote controller**

Use the CZ-RTC6 series remote controller for setting.

<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.



CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen (Fig. 4-12-2-2) appears on the LCD display.

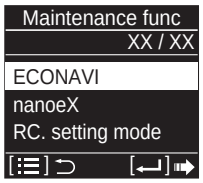


Fig. 4-12-2-2

(2) Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” (Fig. 4-12-2-3) on the LCD display and press the ↵ button.

The “Detailed settings” screen (Fig. 4-12-2-4) appears on the LCD display.

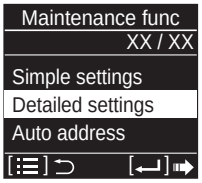


Fig. 4-12-2-3

(3) Select the “Unit no.” (Fig. 4-12-2-4) by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step (4).

NOTE

If the address setting is not set up correctly, the “ALL” will be displayed in the “Unit no.”.

If the ☰ button is pressed, proceed to Step (6).

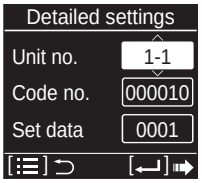


Fig. 4-12-2-4

(4) Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”. (Fig. 4-12-2-5)

Change the “Code no.” one digit at a time so that it becomes [000**2EE**] along with the following procedures.

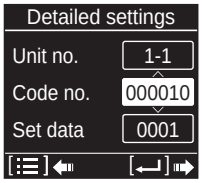


Fig. 4-12-2-5

Change the value (Fig. 4-12-2-6) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

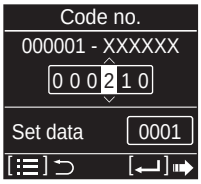


Fig. 4-12-2-6

Change the value (Fig. 4-12-2-7) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

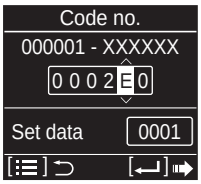


Fig. 4-12-2-7

Change the value (Fig. 4-12-2-8) by pressing the ▽ or △ button.
After changing all digits, press the ↵ button and proceed to Step (5).

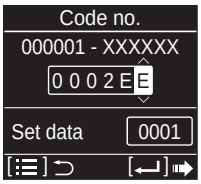


Fig. 4-12-2-8

(5) Select one of the Setting Data “0001” by pressing the ▽ or △ button.

Code no.	Item	Set data	
		0000 *	0001
0002EE	OPT Setting (4-6 pin)	Quiet / EXCT	Demand

* Setting at factory shipment

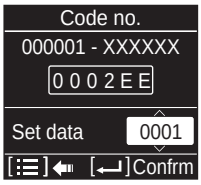


Fig. 4-12-2-9

After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from Fig. 4-12-2-6.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button twice (the display returns to Step (3)).

(6) If the ☰ button is pressed under the display Step (3) the following display (Detailed setting-end screen) (Fig. 4-12-2-10) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button.
(Return to normal remote controller display.)

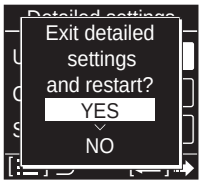


Fig. 4-12-2-10

Demand control can be selected as the following table.
Input current should be DC24V, 10mA
Connecting wiring must be used "shield wiring".

Table 4-12-2-2

Short-circuit			Control (range of operations)
LV3-COM	LV2-COM	LV1-COM	
0	0	0	No restricted
0	0	1	Rated current restricted to A% (A% = 75% at factory shipment)
0	1	0	Rated current restricted to B% (B% = 50% at factory shipment)
1	0	0	Control OFF

* The operational current is restricted to either A% or B% as a general indicator during demand input.

- A% and B% can be amended in calibrations of 5% between 40% and 130% with CZ-RTC6 series remote controller.
  For details on how to amend the parameters, see "7-3. Detailed Settings Function".
  A% value amendments: Parameters are amended with item code "2F2" (demand 1).
  B% value amendments: Parameters are amended with item code "2F3" (demand 2).

4-12-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

4-12-3-1. Indoor Air Temperature Control

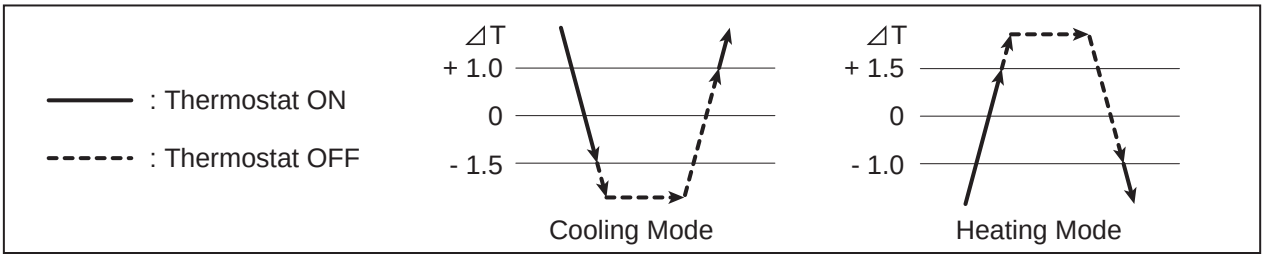
The thermostat is switched on and off in accordance with ⊿T shown below.

⊿T= (Indoor air temperature) - (Temperature set with the remote controller)	
In the body thermostat mode (setting at factory shipment)	Indoor air temperature = (Body sensor) - (Shift temperature *)
In the remote controller thermostat mode	Indoor air temperature = (Remote controller sensor)

* Shift Temperature
Only valid during heating operation. Set at 0 °C during cooling operation.
The settings at factory shipment during heating operation are as follows:

Wall Mounted type : 2°C
Floor Standing type : 0°C
All other types (4-way types, Concealed types, etc.) : 4°C

This function acts as the coefficient for adjusting differences in temperature caused by the height of the living space from the floor to the ceiling (the temperature at ceiling height is higher) during heating operation.
The setting can be modified between 0°C and 6°C with mode [06] (Simple Settings Function) on the remote controller.



(1) Once the thermostat has been switched on, it cannot be switched off again by indoor air temperature control for a period of 5 minutes.
(2) Once the thermostat has been switched off, it cannot be switched on again for a period of 3 minutes.
(3) When in the test run operation mode, the thermostat will not be switched off by indoor air temperature control and the operation will continue.
(4) The thermostat turns off when ΔT continues in thermostat OFF zone for 3 minutes.

4-12-3-2. Compressor Frequency Control

The frequency of the compressor's inverter is limited by either of the following controls depending on whether the cooling or heating mode is in operation.

Cooling Mode :
- Indoor air temperature control
- Maximum and minimum frequency control
- Current release control
- Cooling high-load prevention control
- Cooling freeze prevention control
- Discharge temperature control

Heating Mode :
- Indoor air temperature control
- Maximum and minimum frequency control
- Current release control
- Heating high-load prevention control
- Discharge temperature control

1) Indoor Air Temperature Control

By the control method, not only the thermostat is switched on and off, as explained section “4-12-1. Indoor Air Temperature Control”, but also the frequency of the compressor's inverter is controlled in accordance with ⊿T and fluctuations in indoor air temperature. Inverter frequency is controlled as follows:

When ⊿T is high (not yet reached the temperature set with the remote controller).	Controlled so that the inverter frequency is increased.
When ⊿T is low (approximately +1.0 or less in the cooling mode or approximately -1.0 or more in the heating mode).	Controlled so that the inverter frequency is decreased or kept.

2) Maximum and Minimum Frequency Control

The compressor's inverter frequency is controlled in accordance with the model and operation mode.
The maximum and minimum frequencies for each model are shown in the table below.

* There are cases in which frequency is limited with other control functions depending on operational conditions, so operations are not always carried out in accordance with the maximum frequencies listed below.

· Maximum and Minimum Frequency

Type		PZH3			
Model name (U-)		71PZH3E5 71PZH3E8	100PZH3E5 100PZH3E8	125PZH3E5 125PZH3E8	140PZH3E5 140PZH3E8
Maximum Frequency (Hz)	Cooling	95	60	65	78
	Heating	84	65	70	75
Minimum Frequency (Hz)	Cooling	13	10	10	10
	Heating	15	12	12	12

* There is a case in which the frequency set at maximum and minimum may sometimes decrease in accordance with ambient temperature and indoor loads.

3) Current Release Control

The inverter frequency is controlled so that the current value for the inverter compressor is less than the figure listed in the table below in order to prevent abnormal increases in the inverter circuit included in the electrical component box of the outdoor unit.

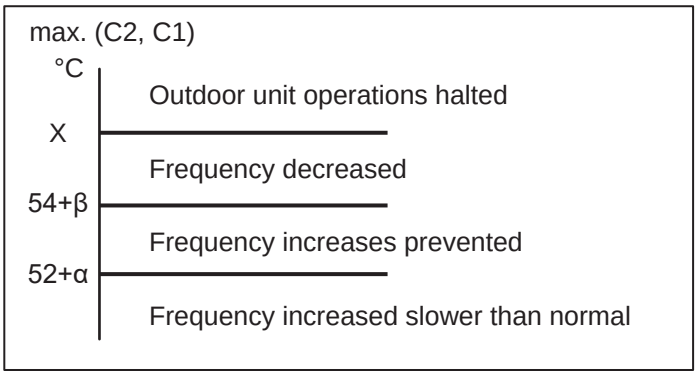
Current release control with primary current : The limited values are modified in accordance with ambient temperature.

Type		PZH3			
Model name (U-)		71PZH3E5	100PZH3E5	125PZH3E5	140PZH3E5
Is (A)	Cooling	16.5	23.0	26.0	27.0
	Heating	16.5	23.0	26.0	27.0
Model name (U-)		71PZH3E8	100PZH3E8	125PZH3E8	140PZH3E8
Is (A)	Cooling	5.5	8.0	9.0	9.5
	Heating	5.5	8.0	9.0	9.5

4) Condensation Temperature Control (cooling)

This system control is performed to limit the inverter frequency in order to restrict high pressure's abnormal increase and high-load operating prevention in the cooling mode.
In accordance with the temperature of the outdoor heat exchanger temperature sensors (C1, C2), such controls are performed as to halting the operations of the indoor unit, decreasing the inverter frequency and restricting its increase, etc.

(a) The threshold value is decreased in accordance with the compressor frequency or indoor load (differences of temperature).
(b) When "X" values are lowered, the results basically become β=X-2, α=X-3.



CODE: 30D (for X setting *2)

Setting No.	1	2	3	4 *1	5
X (°C)	52	56.5	58.5	60	62

CODE: 30E (for α setting *2)
CODE: 30F (for β setting *2)

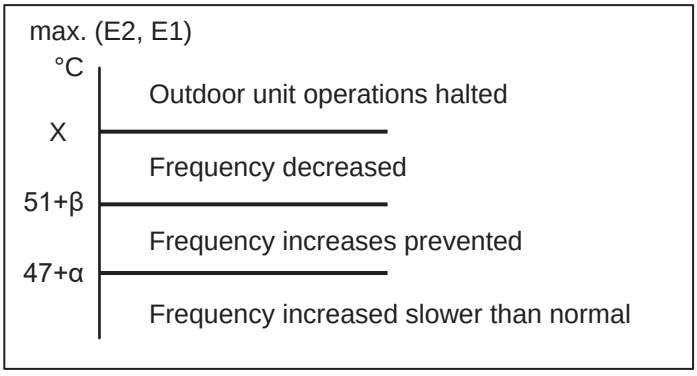
EEPROM			*1
α	-10	~	0
β	-10	~	0

*1 Setting at factory shipment
*2 Use the CZ-RTC6 series remote controller for setting
See "7-3. Detailed Settings Function"

5) Condensation Temperature Control (heating)

This system control is performed to limit the inverter frequency in order to restrict high pressure's abnormal increase and high-load operating prevention in the heating mode.
In accordance with the temperature of the indoor heat exchanger temperatures sensor (E1, E2), such controls are performed as to halting the operations of the indoor unit, decreasing the inverter frequency and restricting its increase, etc.

(a) The threshold value is decreased in accordance with the compressor frequency or indoor load (differences of temperature).
(b) When "X" values are lowered, the results basically become β=X-2, α=X-3.



CODE: 30D (for X setting *2)

Setting No.	1	2	3	4 *1	5
X (°C)	52	56.5	58.5	60	62

CODE: 308 (for α setting *2)
CODE: 309 (for β setting *2)

EEPROM			*1
α	-10	~	0
β	-10	~	0

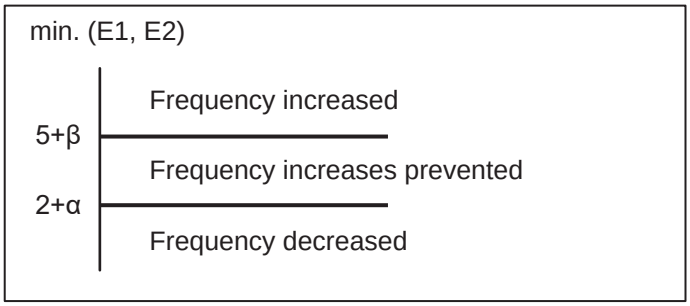
*1 Setting at factory shipment
*2 Use the CZ-RTC6 series remote controller for setting
See "7-3. Detailed Settings Function"

6) Cooling Freeze Prevention Control

The following control is performed during cooling operations (including dry mode operation), in accordance with whichever of the indoor heat exchanger temperatures (E1 or E2) is lower. (See the chart below.)

(a) Frequency will not be decreased less than 6 minutes after thermostat ON.

(b) The threshold value is increased in accordance with the indoor load (differences of temperature).



CODE: 30A (for α setting *2)
CODE: 30B (for β setting *2)

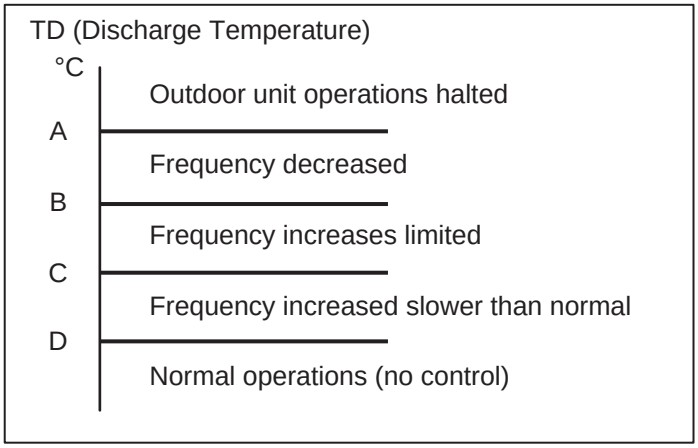
EEPROM			*1		
α	-15	.....	0	.....	9
β	-15		0		9

*1 Setting at factory shipment

*2 Use the CZ-RTC6 series remote controller for setting
See “7-3. Detailed Settings Function”

7) Discharge Temperature Control

The following control is performed to prevent the discharge temperature from rising abnormally in order to protect the inverter compressor.
In accordance with the temperature of the discharge sensor TD, such controls are performed as to limiting the increase of inverter frequency, decreasing it or halting operation of the compressor.



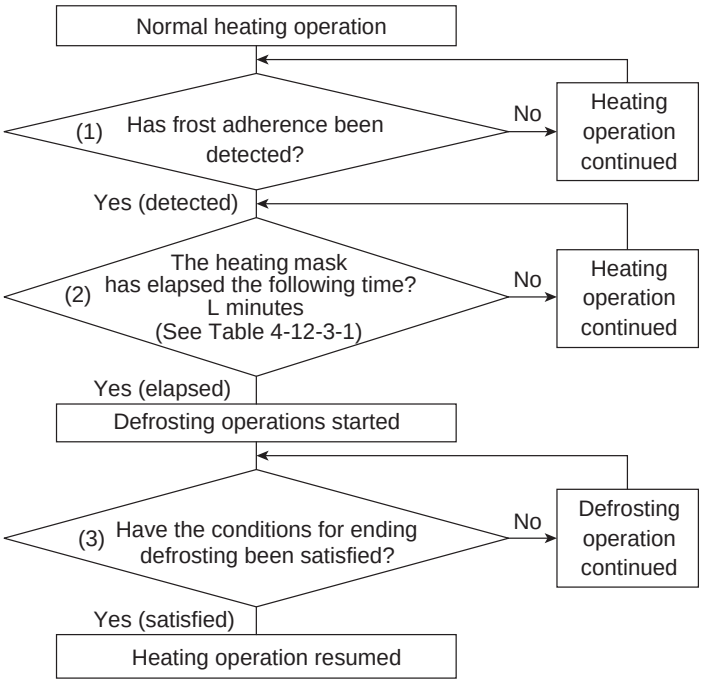
Model name (U-)	71PZH3E5 71PZH3E8	100PZH3E5 100PZH3E8	125PZH3E5 125PZH3E8	140PZH3E5 140PZH3E8
A	103	103	103	103
B	92	92	92	92
C	88	88	88	88
D	86	86	86	86

* If the discharge temperature exceeds A°C, operations of the compressor are halted and restarted after 3 minutes.
If this start/stop activity is repeated 5 times, the alarm "P03" (abnormal discharge temperature) occurs.

8) Defrosting Control

This control function removes frost that has adhered to the outdoor heat exchanger during the heating operation. The control is performed to prevent the deterioration of the heating capabilities attributed to the adherence of frost, and to prevent the crack or crush of pipes attributed to the accretion of ice.
The following control is performed in accordance with the ambient temperature and the outdoor heat exchanger temperature sensor (C1).

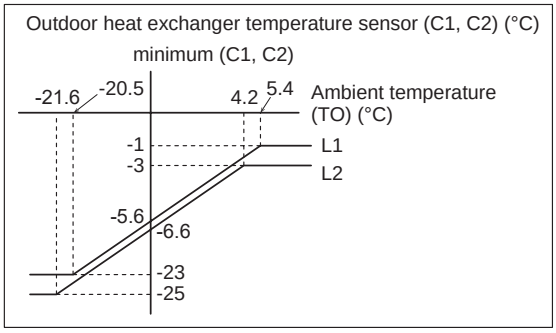
Overall Flow Chart of Defrosting Control



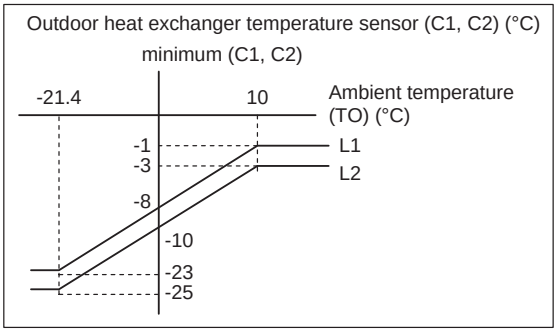
(1) Frost adherence detection

- If the following conditions are satisfied during heating operations, it is regarded as "frost adherence is detected".
- Frost adherence detection is performed in accordance with the ambient temperature (TO) and the outdoor heat exchanger temperature sensor (C1, C2).
- Frost adherence detection conditions
  (a) Outdoor heat exchanger temperature sensor (minimum [C1, C2]) ≤ L1 elapsed 60 minutes (accumulated time).
  (b) Outdoor heat exchanger temperature sensor (minimum [C1, C2]) ≤ L2 elapsed consecutive M minutes (See Table 4-12-3-1) × 2 times.

<U-71PZH3E5, U-71PZH3E8>



<U-100PZH3E5, U-125PZH3E5, U-140PZH3E5>
<U-100PZH3E8, U-125PZH3E8, U-140PZH3E8>



(c) Outdoor heat exchanger temperature (C1) < -3 °C is detected over N minutes (accumulated time) (See Table 4-12-3-1).

(2) Heating Mask Time

This refers to the shortest time that heating operations must be performed without defrosting operations being executed. The mask time for this model is L minutes (See Table 4-12-3-1).

* Defrosting operations will not be started until the defrosting mask time has elapsed, even if frost adherence has been detected.

(3) Ending Defrosting

Defrosting operations are ended when the following conditions are satisfied.

- Ending defrosting conditions

(a) When the temperature of the outdoor heat exchanger temperature sensor (C1) is over P °C (See Table 4-12-3-1)

(b) When the temperature of the outdoor heat exchanger temperature sensor (C1) is 6°C or higher for consecutive 60 seconds.

(c) When a maximum of 15 minutes defrosting time has elapsed.

Table 4-12-3-1. Set Value of Defrosting Control

Model name (U-)	71PZH3E5 71PZH3E8	100PZH3E5 100PZH3E8	125PZH3E5 125PZH3E8	140PZH3E5 140PZH3E8
L : Heating mask time	35	35	35	35
M : Frost adherence detection continuous time	1	4	4	4
N : Accumulated time less than -3°C	80	80	80	80
P : Ending defrosting C1 temperature	10	10	10	10

9) Outdoor Unit Fan Control

The appropriate rotations per minute for the outdoor unit fan are determined in accordance with the ambient temperature and the frequency of the compressor inverter.
The outdoor unit fan step is controlled between a range of W1 (Step 1) and WF (Step 15).

10) Outdoor Unit's Electrical Expansion Valve Control

The electrical expansion valve controls the amount of refrigerant that is allowed to flow in accordance with the operation status.
The valve is adjusted in accordance with the discharge temperature (TD), the outdoor heat exchanger temperature sensor (C1), the suction temperature sensor (TS), and the indoor unit's heat exchanger temperature sensors (E1 and E2).

(1) Cooling Mode
Controlled so that the suction temperature (TS) - indoor heat exchanger temperature minimum (E1 and E2) is between 0 degree and 2 degrees under normal conditions.
There are cases where the aperture opens wider than normal operation if the discharge temperature increases.

(2) Heating Mode
Controlled so that the suction temperature (TS) - outdoor heat exchanger temperature (C1) is between 0 degree and 2 degrees under normal conditions.
There are cases where the aperture opens wider than normal operation if the discharge temperature increases.

11) Demand Control

There are two styles of demand operations available in methods of restraining power consumption.

When sending the demand signal from an external input, use the OPT terminal on indoor unit control PCB or MINI Seri-Para I/O Unit

For details of the OPT terminal on the indoor unit control PCB, see “4-13. Indoor Unit Control PCB Switches and Functions”.

Wiring example

Connect the wiring with reference to Fig. 4-12-3-1 and Table 4-12-3-2.

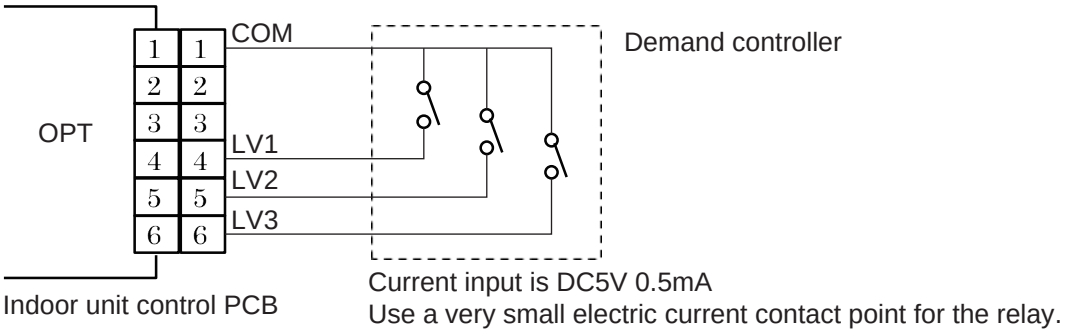


Fig. 4-12-3-1

LV1, LV2, LV3 / Use this terminal for demand control.

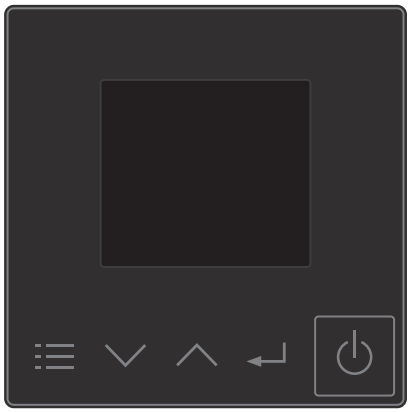
- When using the demand function, use the CZ-RTC6 series remote controller for setting.

● **When setting the demand function using a wired remote controller**

Use the CZ-RTC6 series remote controller for setting.

<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.



CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen (Fig. 4-12-3-2) appears on the LCD display.

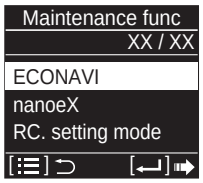


Fig. 4-12-3-2

(2) Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” (Fig. 4-12-3-3) on the LCD display and press the ↵ button.

The “Detailed settings” screen (Fig. 4-12-3-4) appears on the LCD display.

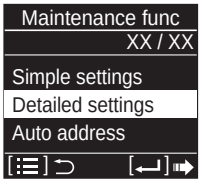


Fig. 4-12-3-3

(3) Select the “Unit no.” (Fig. 4-12-3-4) by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step (4).

NOTE

If the address setting is not set up correctly, the “ALL” will be displayed in the “Unit no.”.

If the ☰ button is pressed, proceed to Step (6).

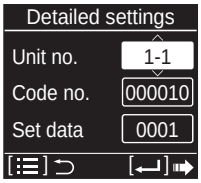


Fig. 4-12-3-4

(4) Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”. (Fig. 4-12-3-5)

Change the “Code no.” one digit at a time so that it becomes [000**2EE**] along with the following procedures.

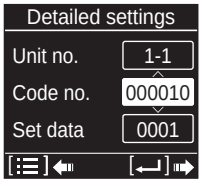


Fig. 4-12-3-5

Change the value (Fig. 4-12-3-6) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

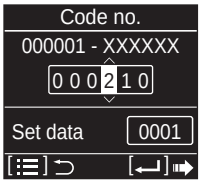


Fig. 4-12-3-6

Change the value (Fig. 4-12-3-7) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

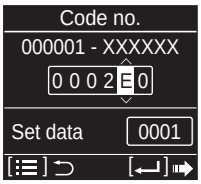


Fig. 4-12-3-7

Change the value (Fig. 4-12-3-8) by pressing the ▽ or △ button.
After changing all digits, press the ↵ button and proceed to Step (5).

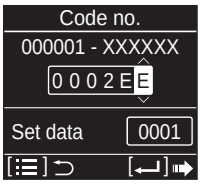


Fig. 4-12-3-8

(5) Select one of the Setting Data “0001” by pressing the ▽ or △ button.

Code no.	Item	Set data	
		0000 *	0001
0002EE	OPT Setting (4-6 pin)	Quiet / EXCT	Demand

* Setting at factory shipment

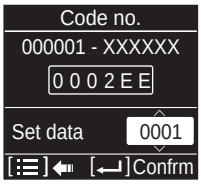


Fig. 4-12-3-9

After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from Fig. 4-12-3-6.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button twice (the display returns to Step (3)).

(6) If the ☰ button is pressed under the display Step (3) the following display (Detailed setting-end screen) (Fig. 4-12-3-10) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button.
(Return to normal remote controller display.)

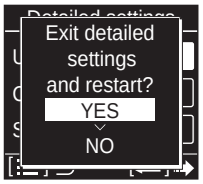


Fig. 4-12-3-10

Demand control can be selected as the following table.
Input current should be DC24V, 10mA
Connecting wiring must be used "shield wiring".

Table 4-12-3-2

Short-circuit			Control (range of operations)
LV3-COM	LV2-COM	LV1-COM	
0	0	0	No restricted
0	0	1	Rated current restricted to A% (A% = 75% at factory shipment)
0	1	0	Rated current restricted to B% (B% = 50% at factory shipment)
1	0	0	Control OFF

* The operational current is restricted to either A% or B% as a general indicator during demand input.

- A% and B% can be amended in calibrations of 5% between 40% and 130% with CZ-RTC6 series remote controller.
  For details on how to amend the parameters, see "7-3. Detailed Settings Function".
  A% value amendments: Parameters are amended with item code "2F2" (demand 1).
  B% value amendments: Parameters are amended with item code "2F3" (demand 2).

4-13. Indoor Unit Control PCB Switches and Functions

[Indoor unit control PCB]

T10 (CN061): **6P plug (YEL)** / Used for remote control operation. (See the Remote Control Section.)

Control items: (1) Start/stop input (2) Remote controller prohibit input
(3) Start signal output (4) Alarm signal output

EXCT (CN073): **2P plug (RED)** / Can be used for demand control. When input is present, forces the unit to operate with the thermostat OFF.

DISP (CN062): **6P plug (BLK)** 2-5pin / Short-circuiting this pin allows operation to be controlled by the remote controller even when an outdoor unit is not connected. (In this case, alarm "E04," which indicates trouble in the serial communication between the indoor and outdoor unit, does not occur.)

CHK (CN062): **6P plug (BLK)** 1-4pin / Test pin. Short-circuiting this pin allows the indoor FM (H fan speed), drain pump, flap motor (F1 position), and electronic expansion valve full-open position to be checked.
However, this function turns OFF if the indoor unit protection mechanism is activated.
The components will operate even if the remote controller and outdoor unit are not connected, however, the remote control cannot be used for control even if it is connected.
This pin can be used for short-term tests.

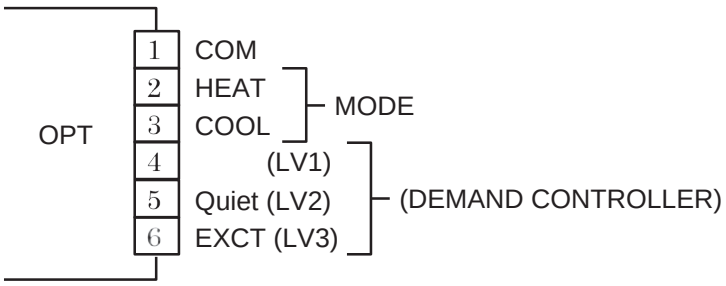
JP1 (JP001): **Jumper wire** / Allows selection of the T10 terminal start/stop signal. (See the Remote Control Section.)
Setting at time of shipment: Pulse signal
Jumper wire cut: Static signal (continuous signal)

FAN DRIVE (CN032): **2P plug (WHT)** / This terminal sends the signal to the ventilation fan when a commercially available ventilation fan is operated by the FAN button on the wired remote controller. (See the Remote Control Section.)
Use a ventilation fan which can accept the no-voltage contact A signal as the external input signal.

POWER LED: **LED (RED)** / Illuminates when the power is ON. Flashes when there is trouble with the EEPROM (IC010: nonvolatile memory).

EEPROM (IC010): **Nonvolatile memory** / Used to store model information and other data. When replacing the PCB, remove the EEPROM from the old PCB and install it onto the new PCB. If there is IC trouble, replace with a new IC (provided with the servicing PCB), and set the necessary information using the wired remote controller. (For the setting procedure, see the servicing technical materials.)

OPT(CN601): **Used for 6P plug (RED)** / MODE, DEMAND control.
1 pin: For COM setting, 2-3 pin: For MODE setting, 4-6 pin: For DEMAND / Quiet, EXCT setting



Indoor unit control PCB

* When using these functions, use the lead wires described below.
  Lead wire with 6P socket (Service parts: Parts code / ACPA60C7898)
  Check the delivery date in advance because of BTO (build-to- order manufacturing).

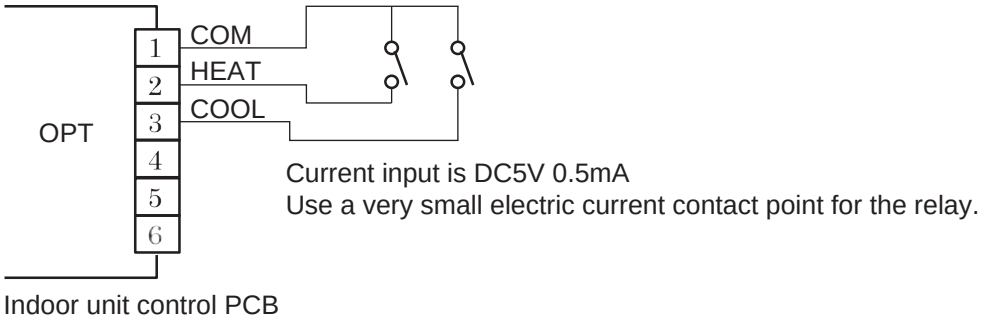
NOTE:

- Wire length between the indoor control PCB and the electrical contact should be less than 2 m.
- Nonuse lead wires should be insulated.

1. MODE / Indoor Unit Cooling and Heating mode select pin
1-2 pin short circuit: Heating mode, 1-3 pin short circuit: Cooling mode

- When the heating side is shorted in cooling mode, it changes to heating mode. When the cooling side is shorted in heating mode, it changes to cooling mode.

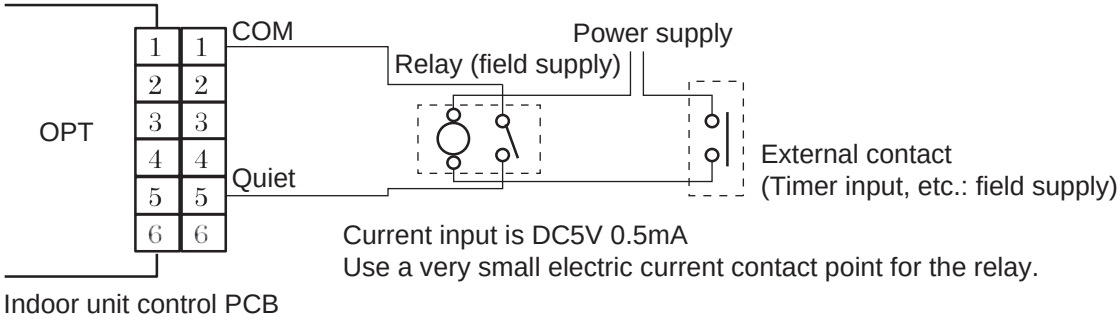
● **Wiring example**



2. Quiet / Low noise mode operation is available.

- Operating with limited outdoor fan and compressor frequencies.
- When the relay is switched ON, low noise operation is performed. (Non-voltage contact “a”)

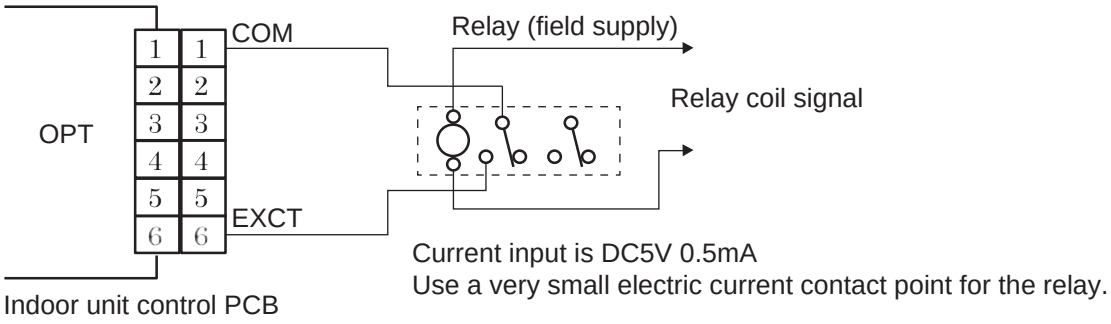
● **Wiring example**



3. EXCT / DEMAND control available

- When input, the thermos is forcibly switched OFF.

● **Wiring example**



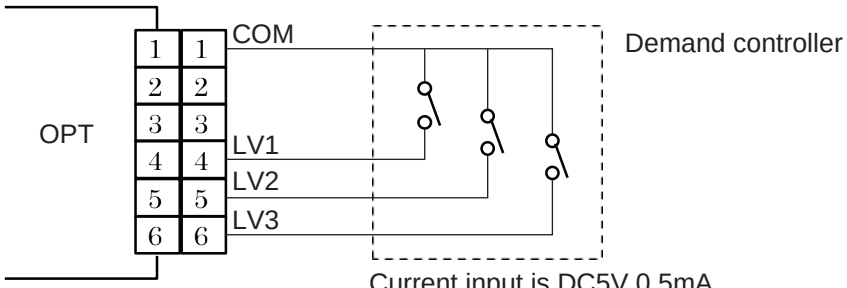
4. LV1, LV2, LV3 / Use this terminal for demand control.

- When using the demand function, use the CZ-RTC6 series remote controller for setting.
- The below table shows the operating range.
  Select the operating range. See the following table.

pin no. for demand section	Operating range
LV1	Approx. 75% of rated current
LV2	Approx. 50% of rated current
LV3	Stop

● **Wiring example**

Connect the wires. See the below diagram and above table.



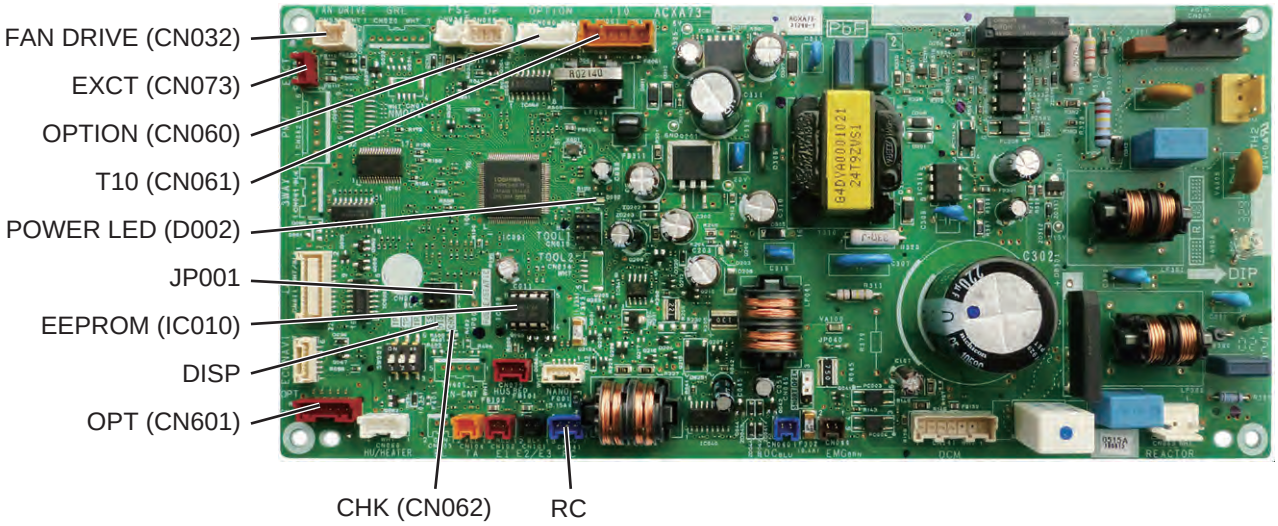
Indoor unit control PCB

Current input is DC5V 0.5mA
Use a very small electric current contact point for the relay.

4

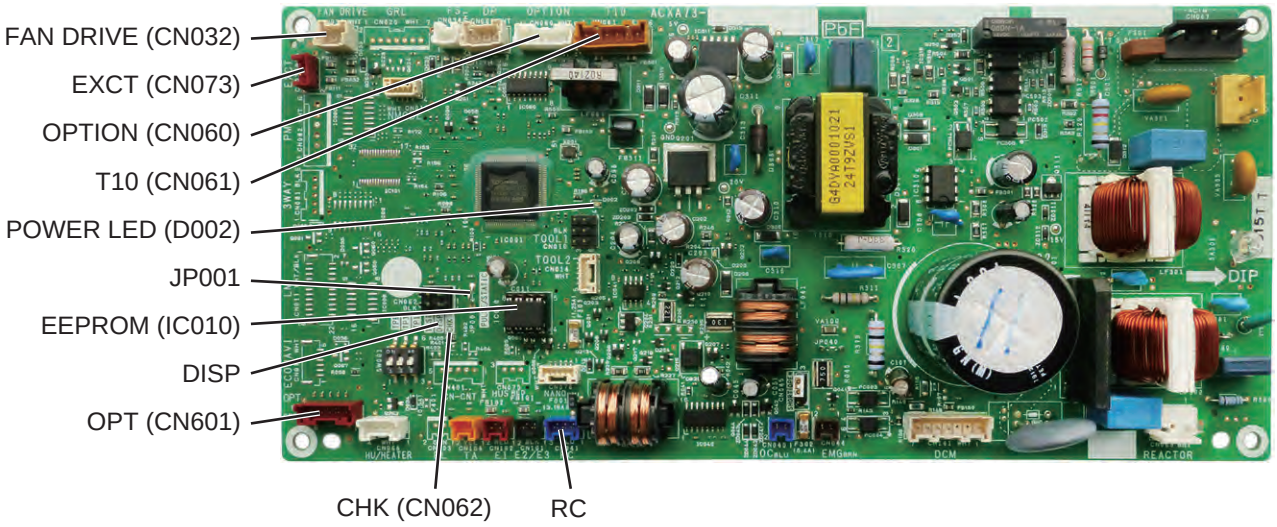
4-Way Cassette Type

■ **Indoor Unit Control Board : ACXA73-3129* (S-3650PU3E, S-6071PU3E, S-1014PU3E)**



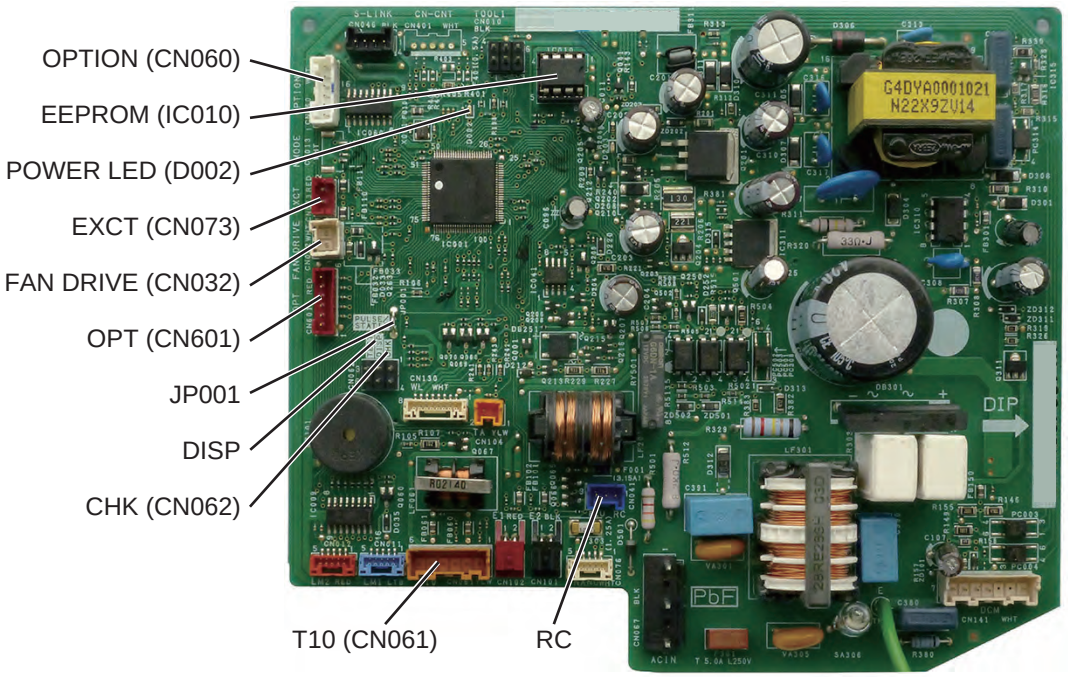
Middle Static Pressure Duct Type

■ **Indoor Unit Control Board : ACXA73-3440* (S-3650PF3E, S-6071PF3E, S-1014PF3E)**



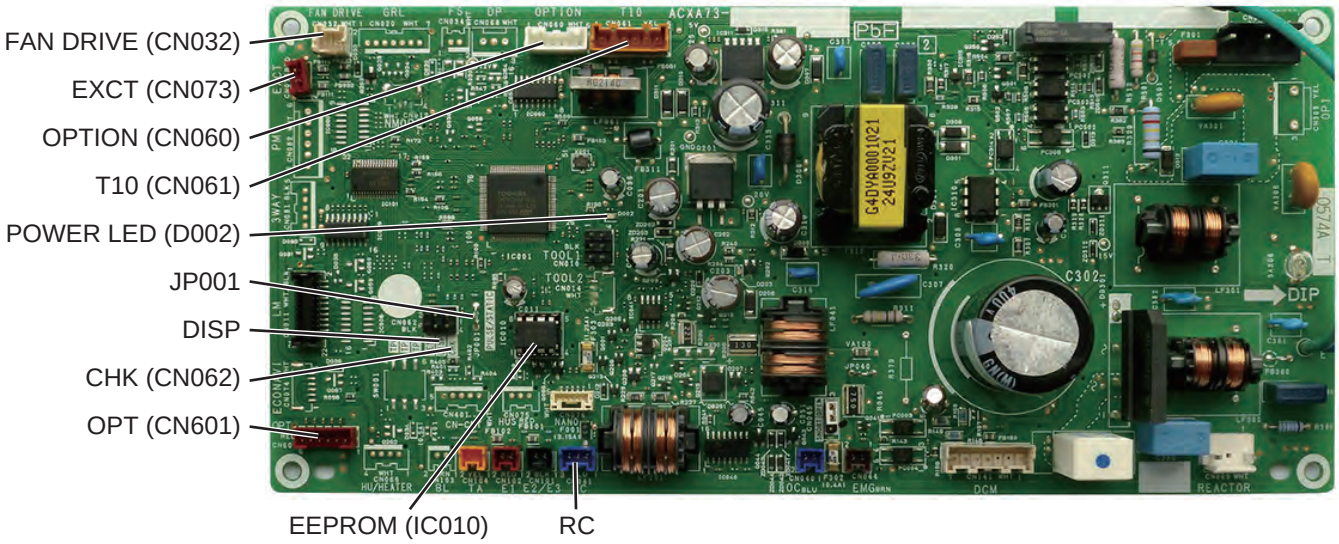
Wall Mounted Type

■ Indoor Unit Control Board : ACXA73-3671* (S-3650PK3E, S-6010PK3E)



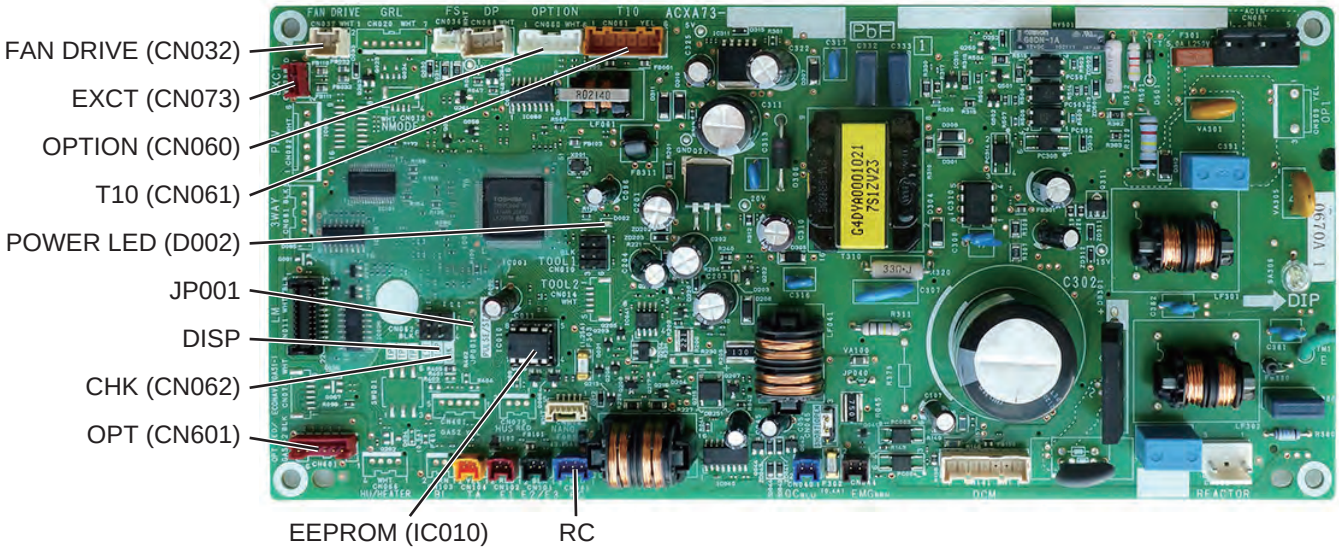
Ceiling Type

■ Indoor Unit Control Board : ACXA73-3611* (S-3650PT3E, S-6071PT3E, S-1014PT3E)



4-Way Cassette 60 × 60 Type

■ Indoor Unit Control Board : ACXA73-3565* (S-25PY3E, S-36PY3E, S-50PY3E, S-60PY3E)



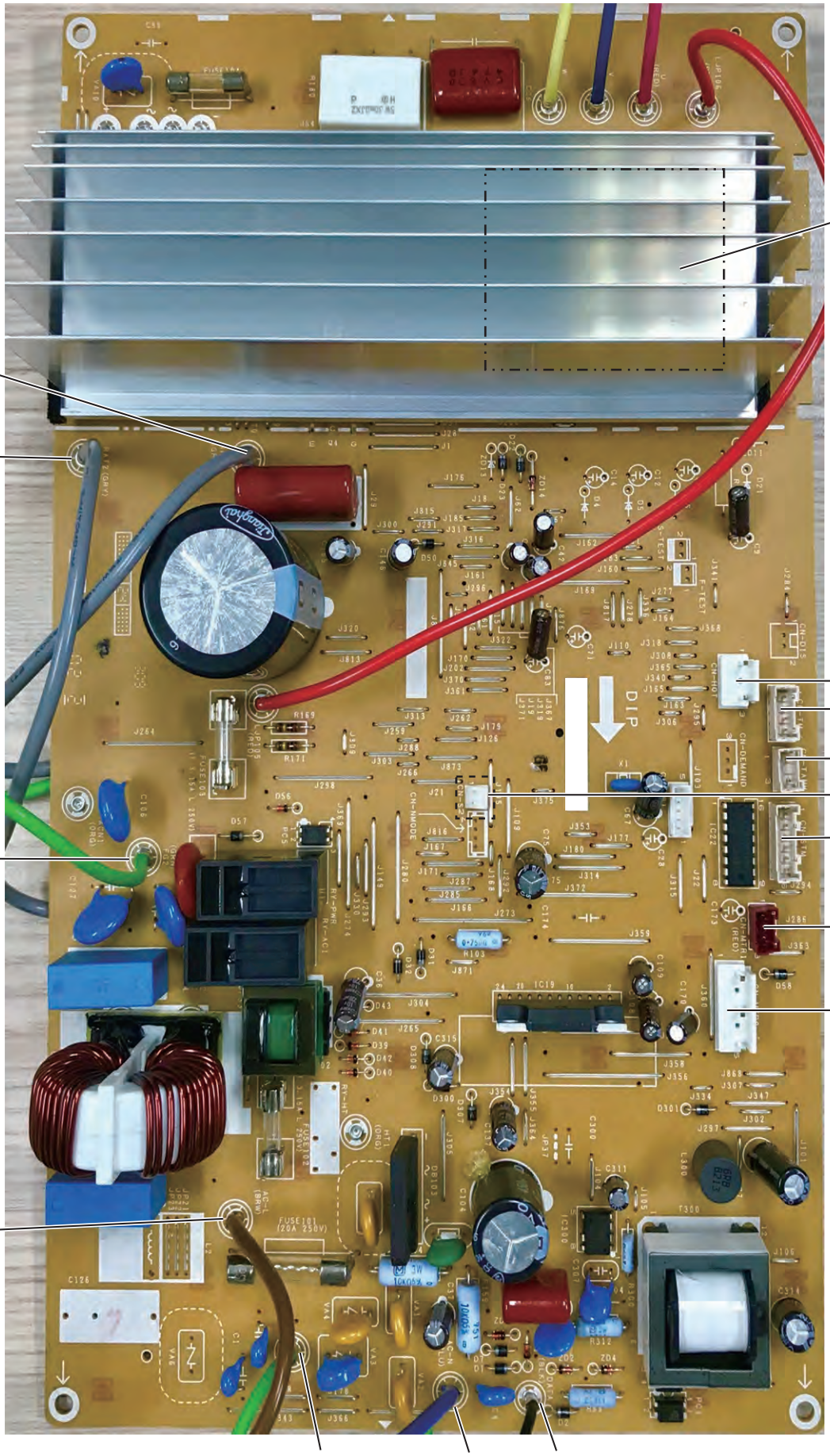
4

4-14. Outdoor Unit Control PCB

4-14-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

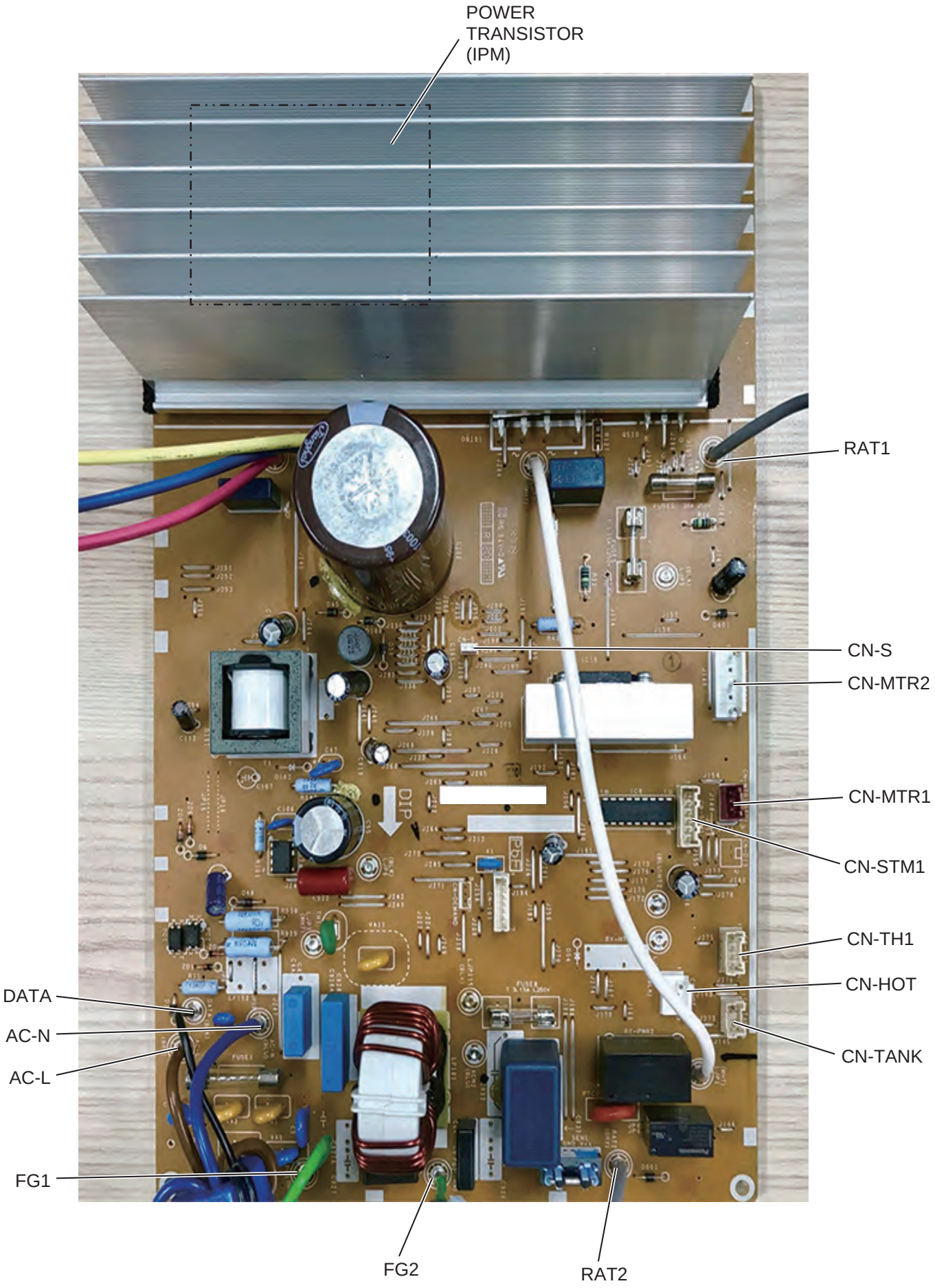
U-25PZ3E5, U-36PZ3E5

■ **CR-PCB : ACXA73-3379***



U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A

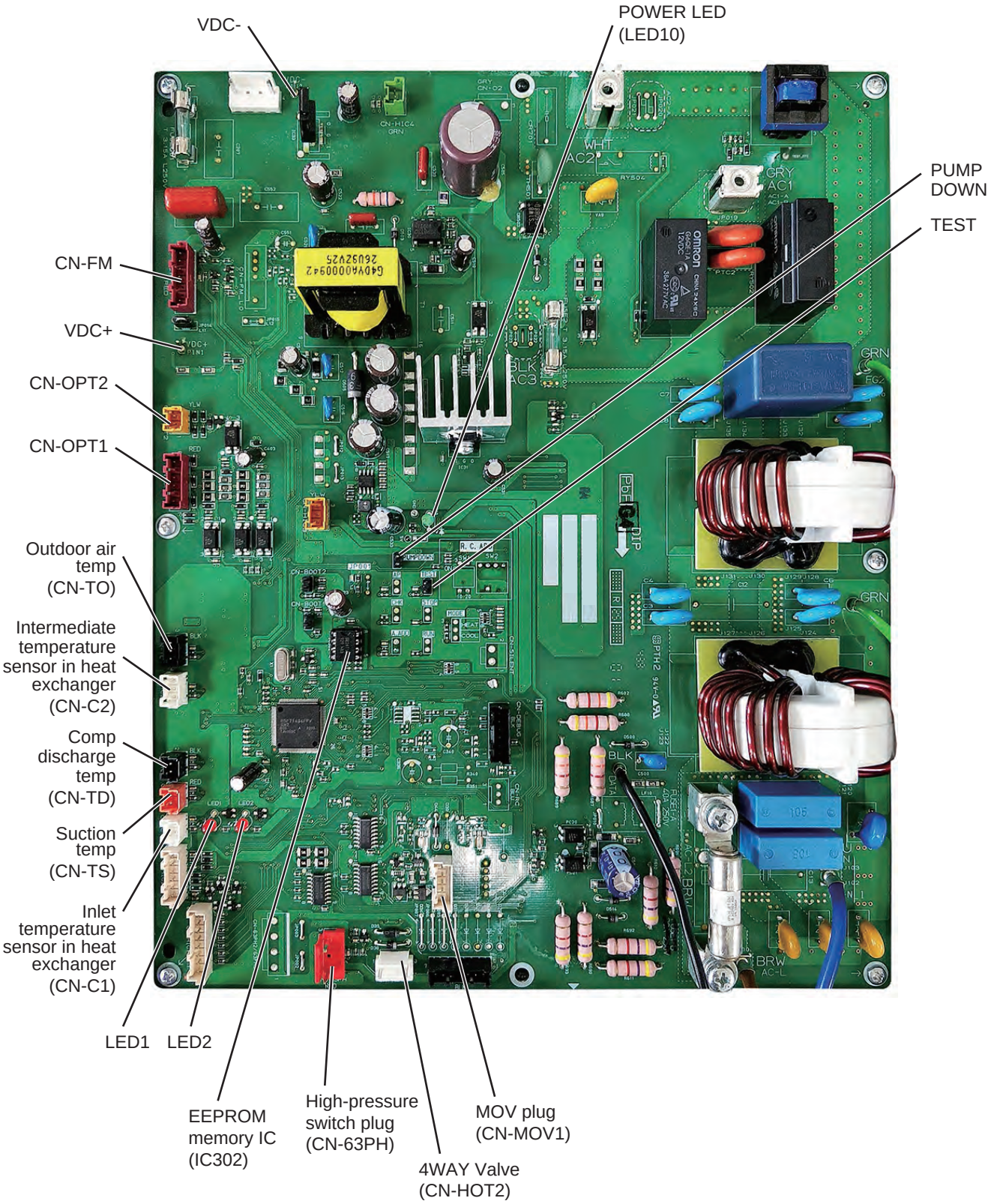
■ **CR-PCB : ACXA73-3380***



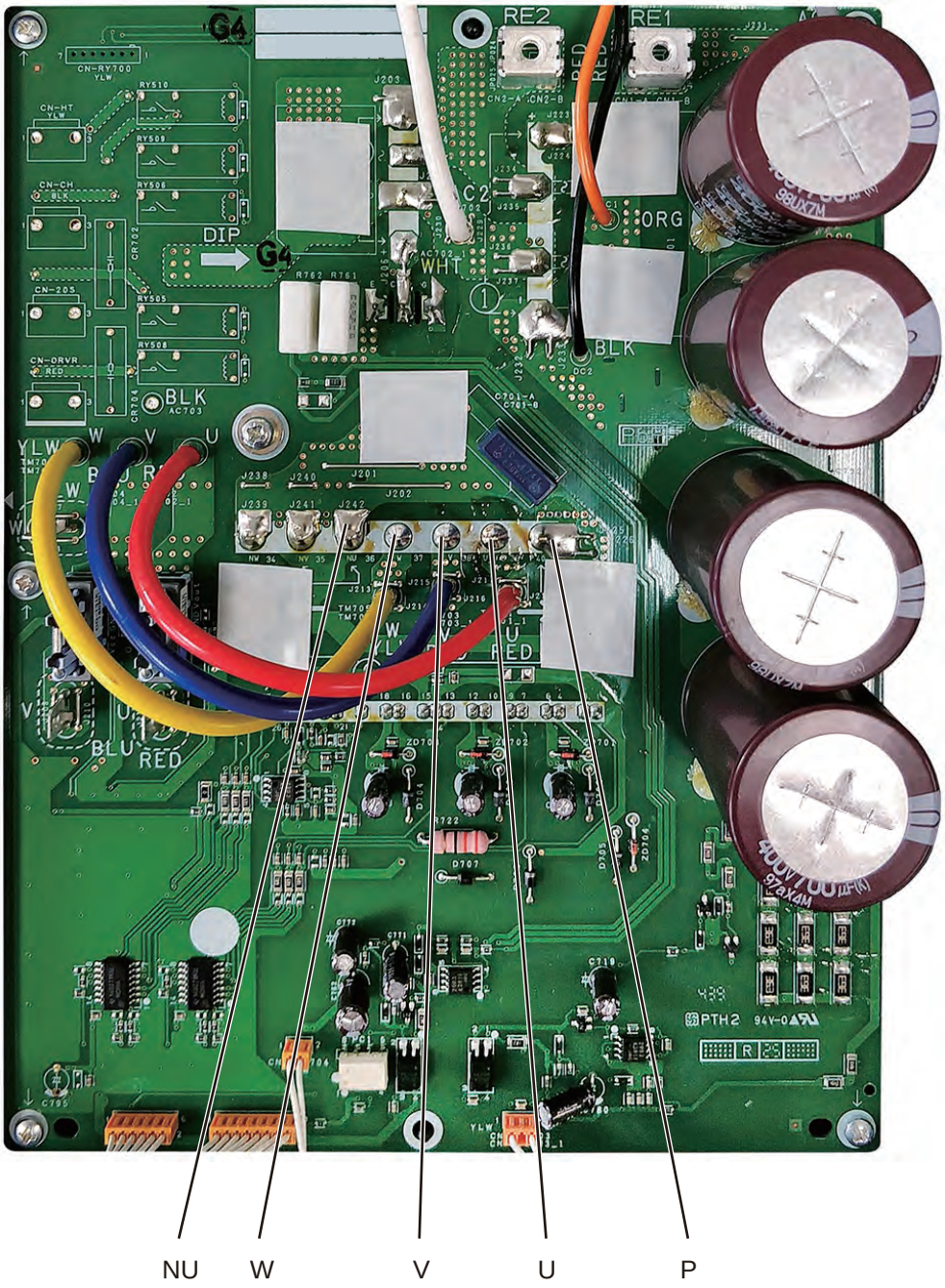
4-14-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

U-100PZ3E5, U-125PZ3E5, U-140PZ3E5

- **CR-PCB : ACXA73-33930 (U-100PZ3E5)**
- **CR-PCB : ACXA73-33950 (U-125PZ3E5, U-140PZ3E5)**

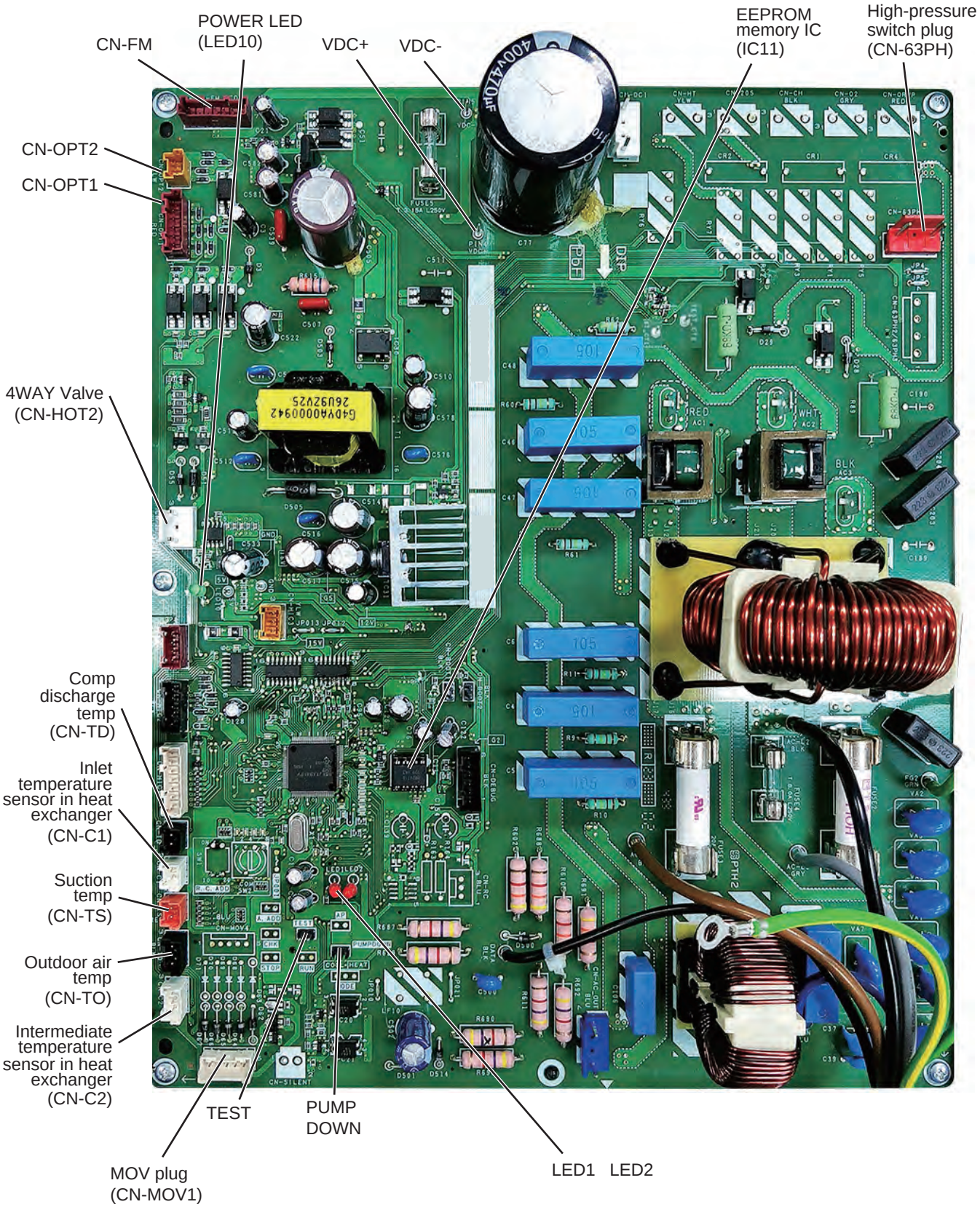


■ **HIC-PCB : ACXA73-33940 (U-100PZ3E5)**
■ **HIC-PCB : ACXA73-33960 (U-125PZ3E5, U-140PZ3E5)**

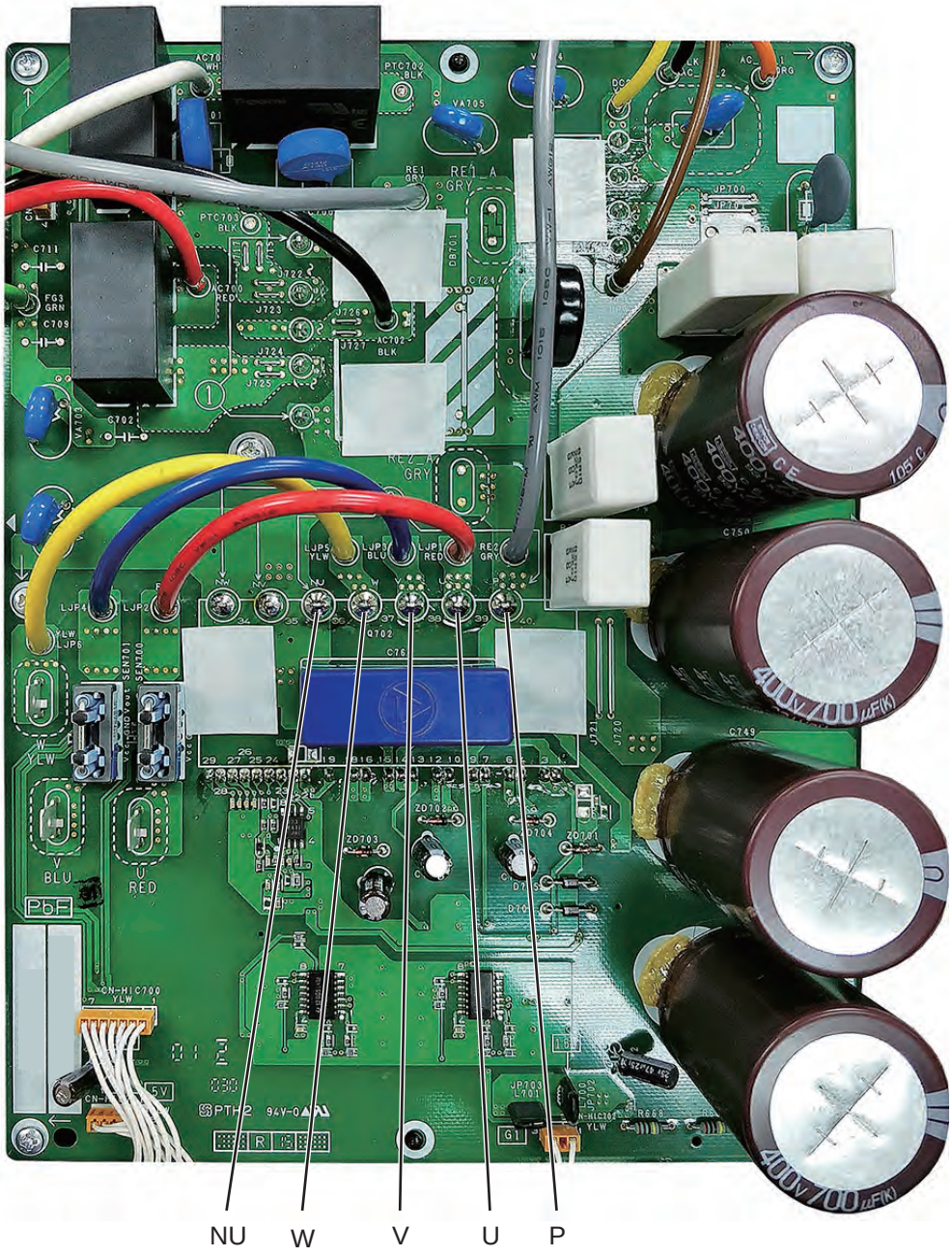


U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

■ **CR-PCB : ACXA73-33970 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**



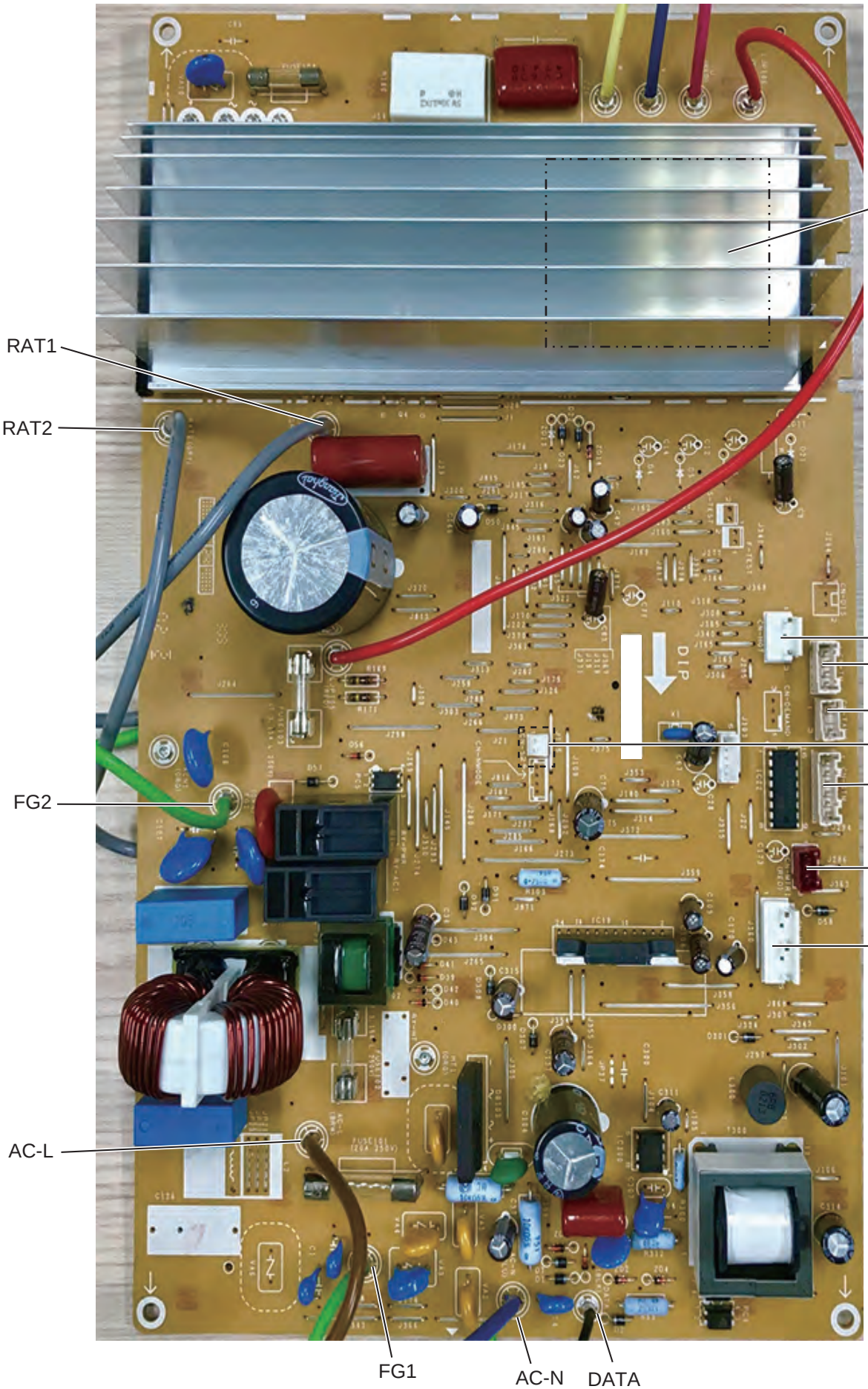
■ HIC-PCB : ACXA73-33980 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)



4-14-3. U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

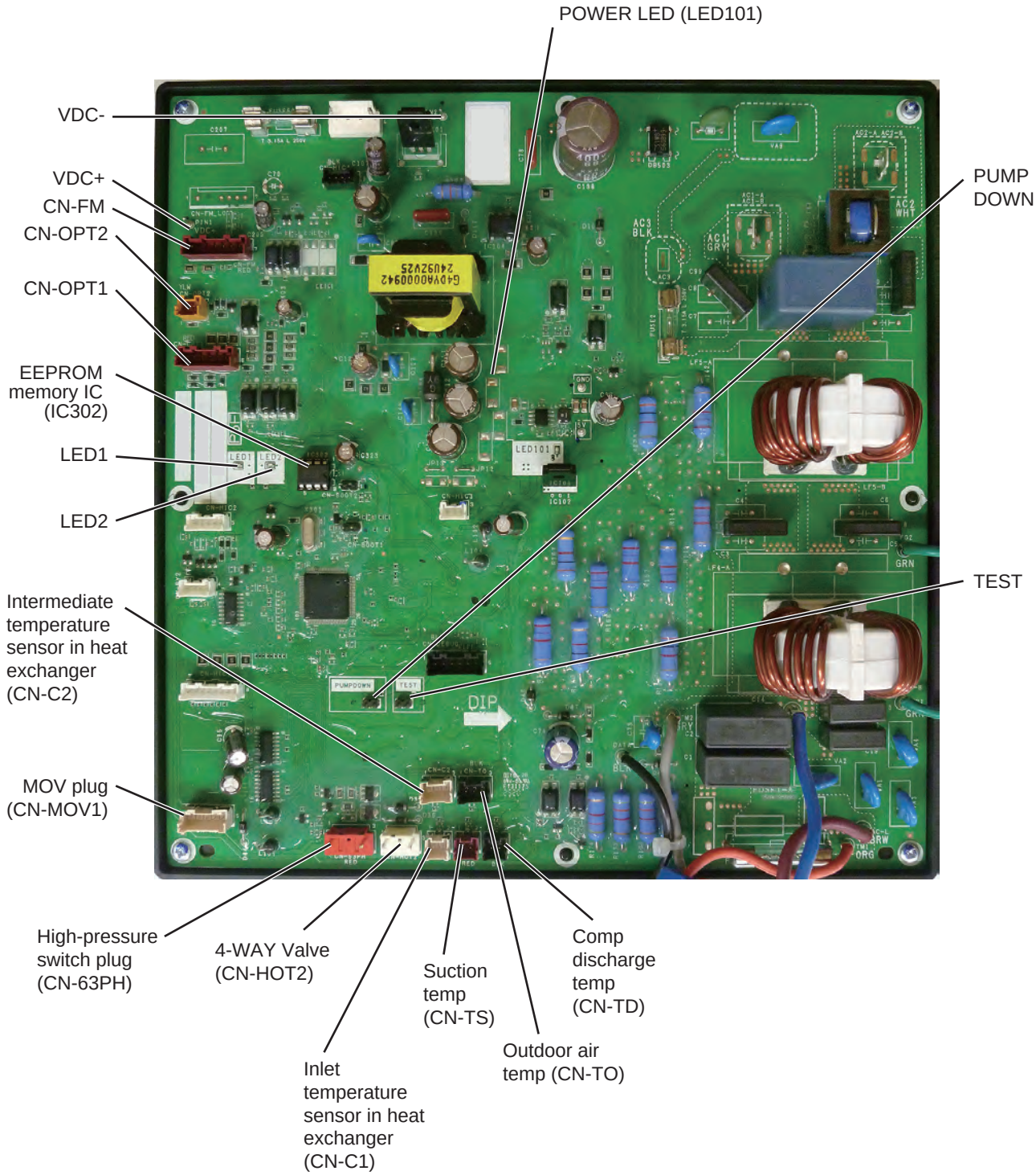
■ **CR-PCB : ACXA73-3901***



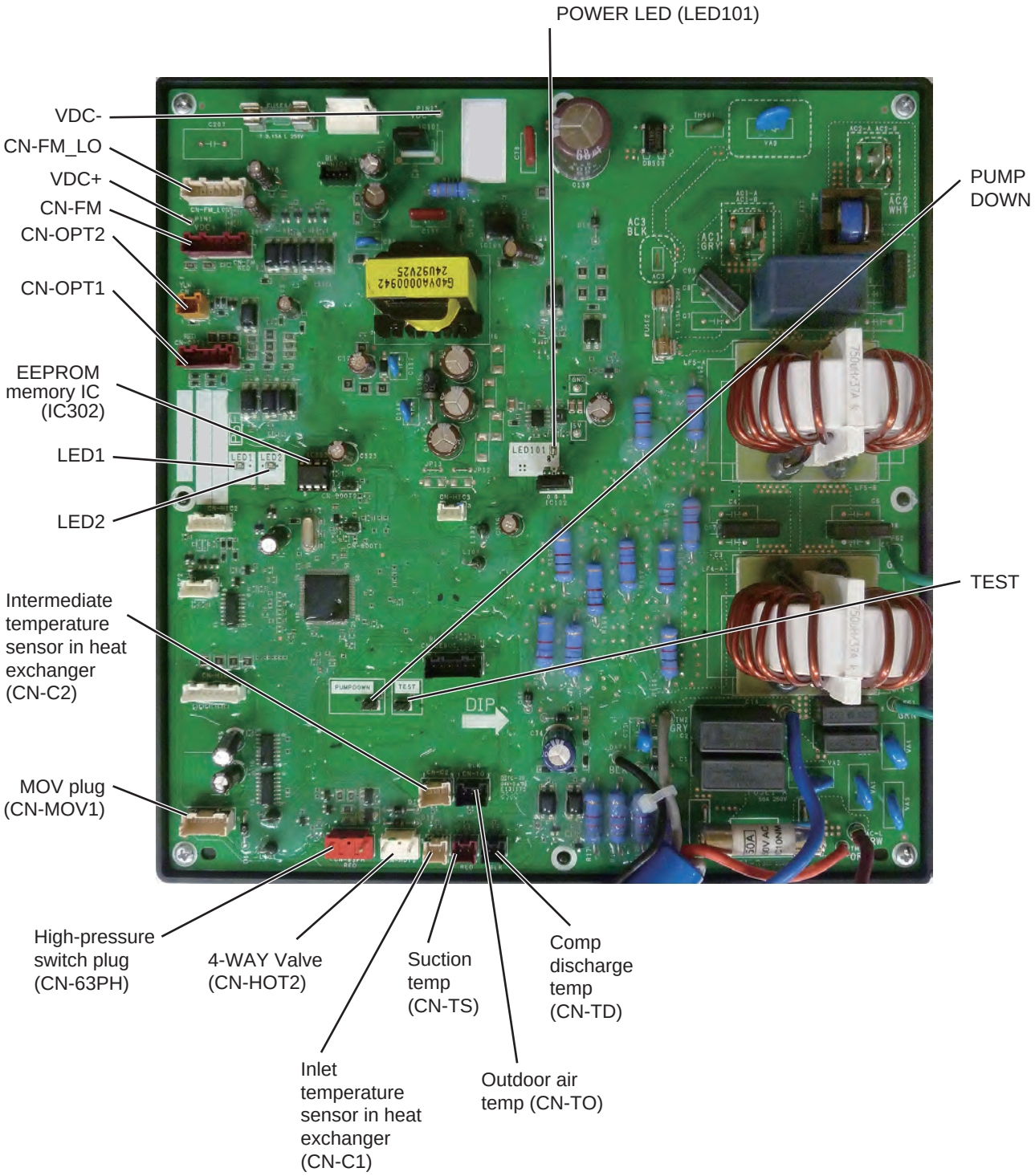
4-14-4. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5

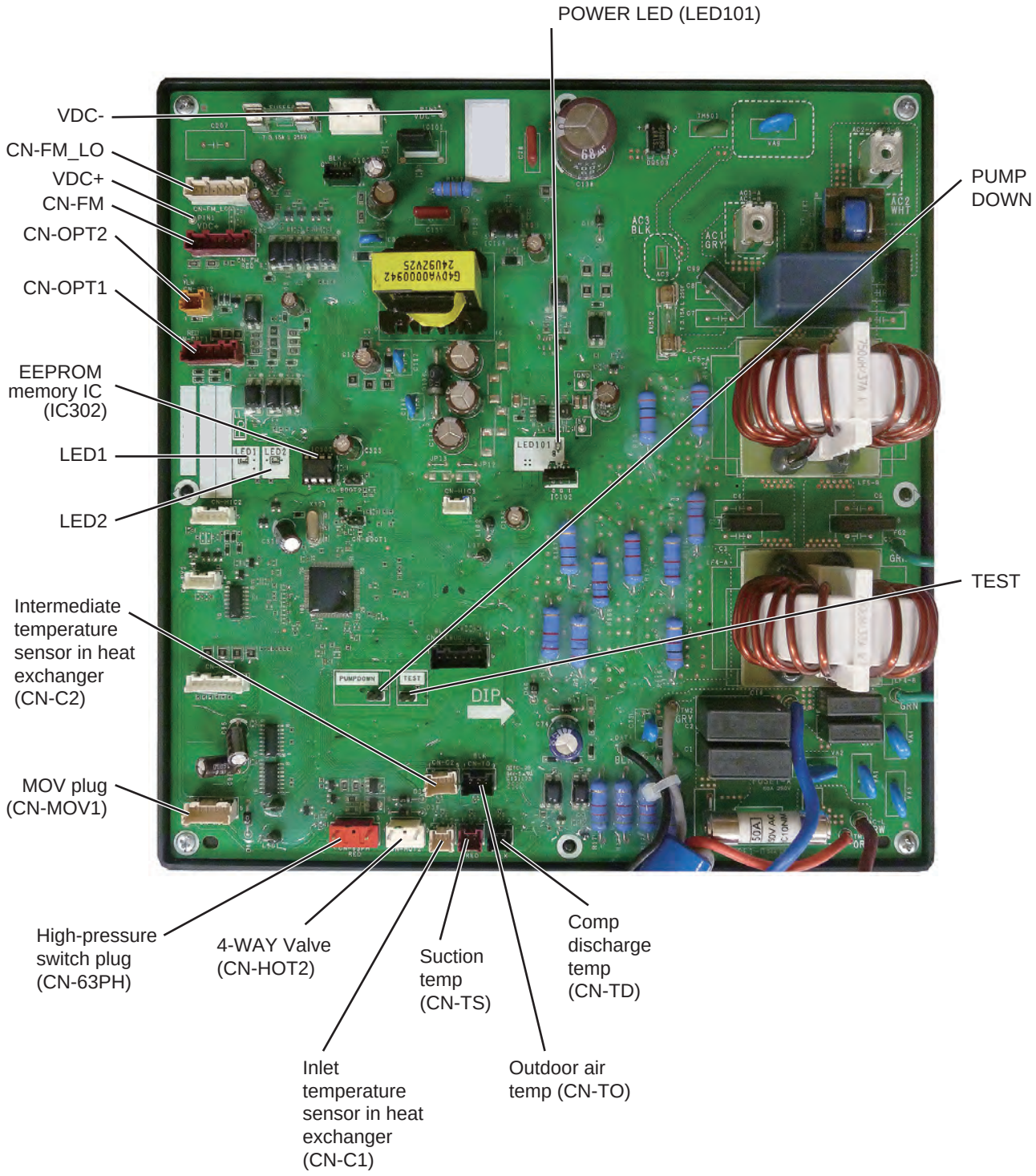
■ **CR-PCB : ACXA73-3552* (U-71PZH3E5)**



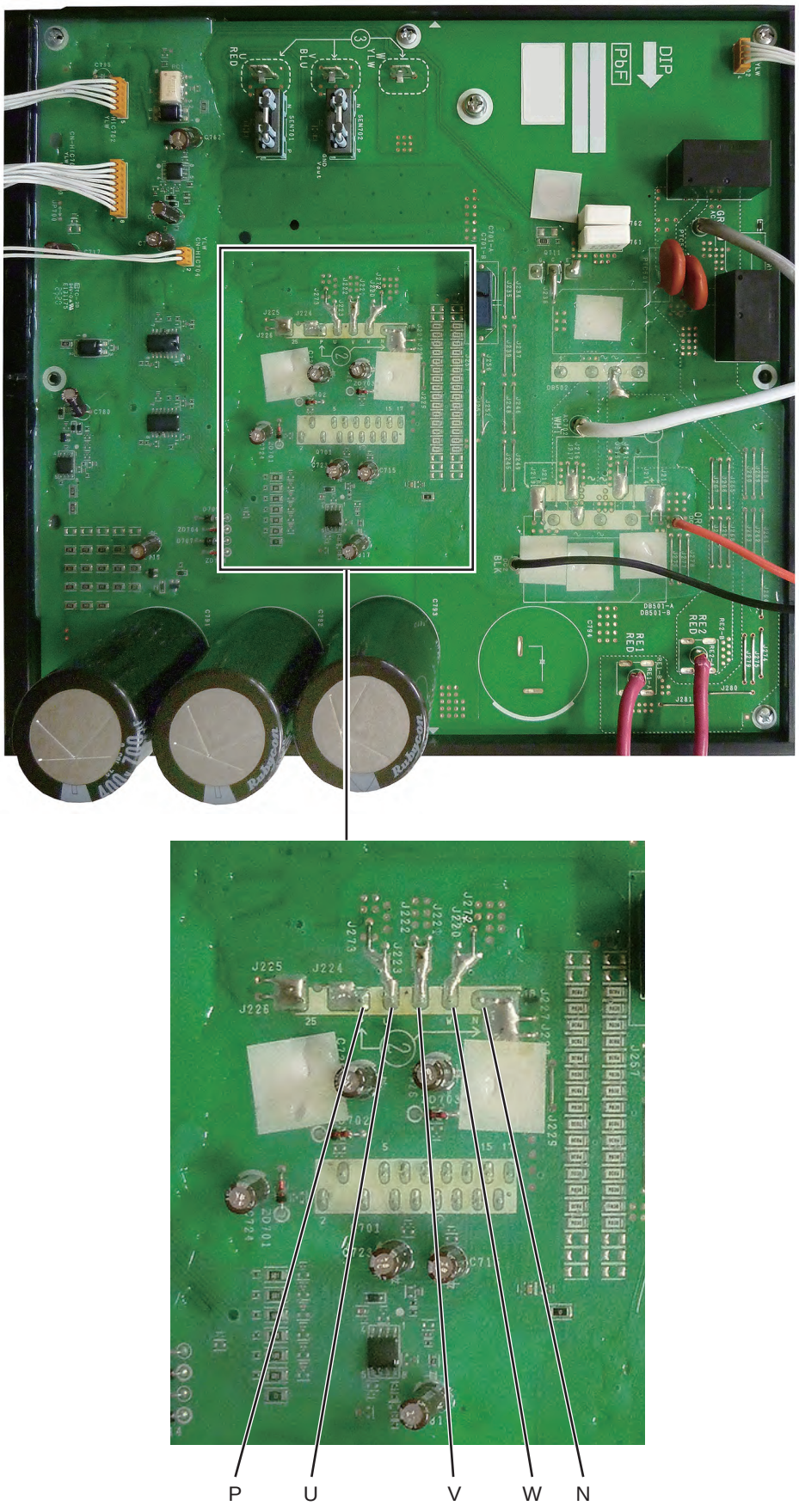
■ CR-PCB : ACXA73-3551* (U-100PZH3E5)



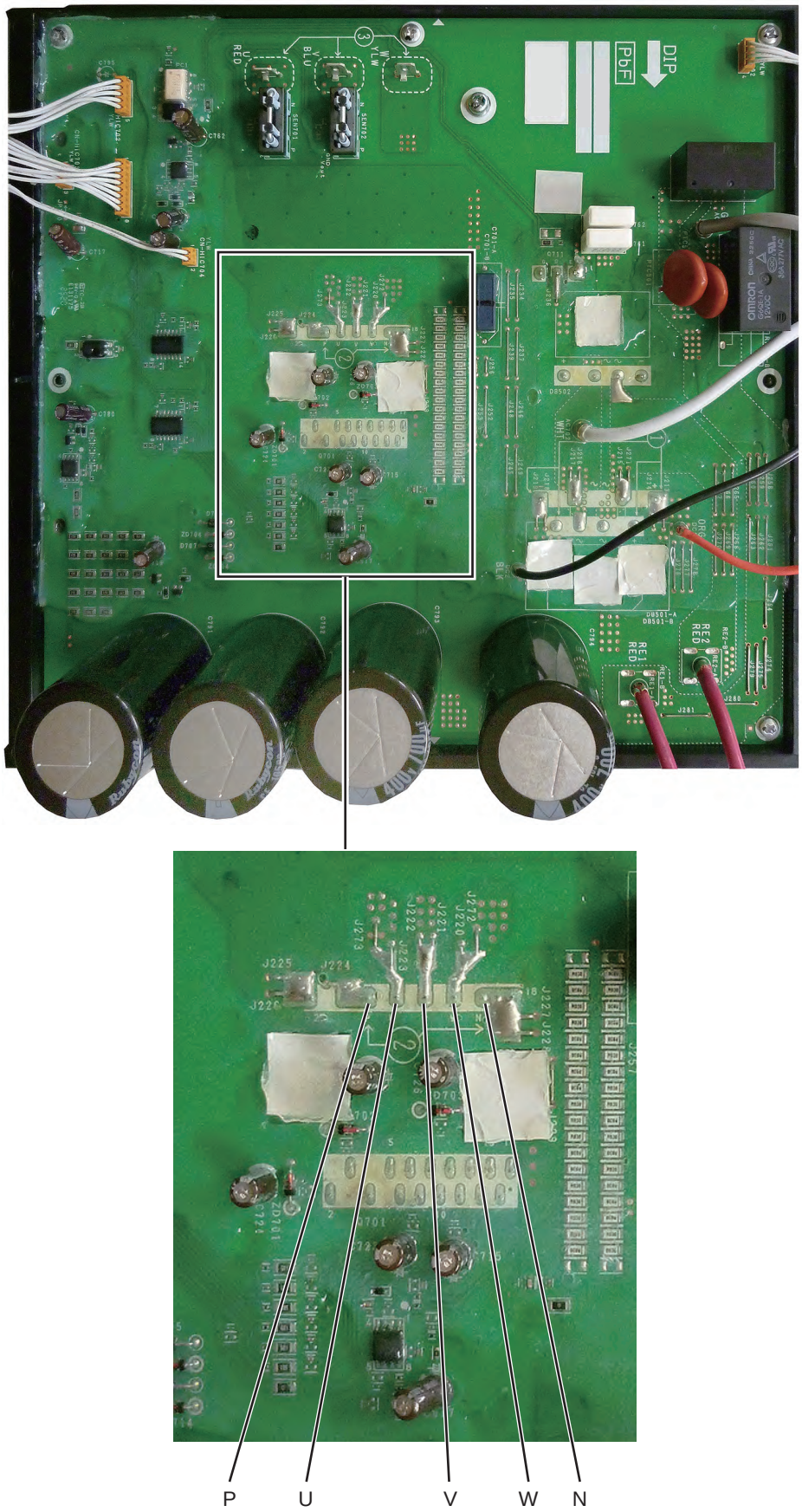
■ CR-PCB : ACXA73-3550* (U-125PZH3E5, U-140PZH3E5)



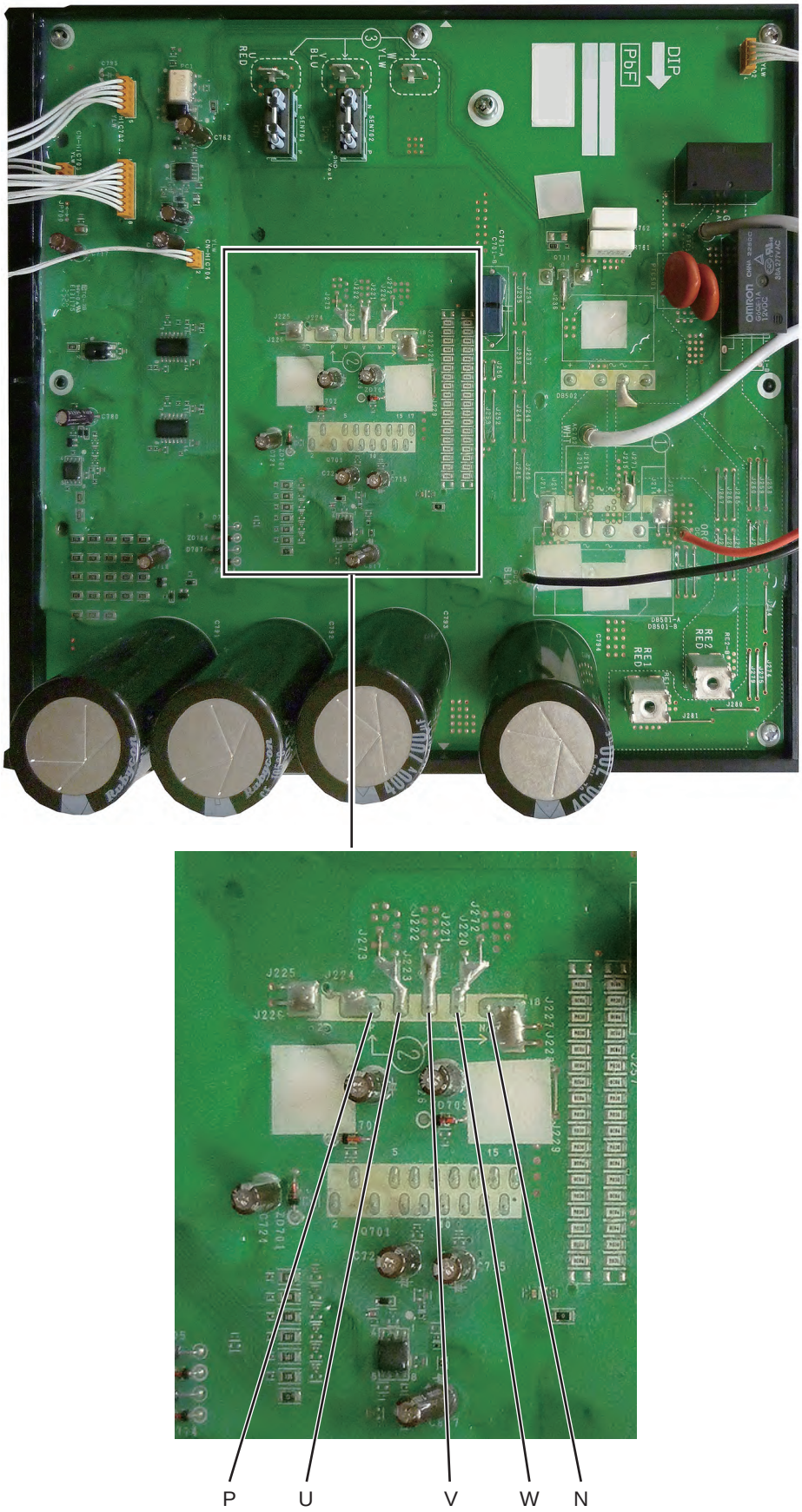
HIC-PCB : ACXA73-3555* (U-71PZH3E5)



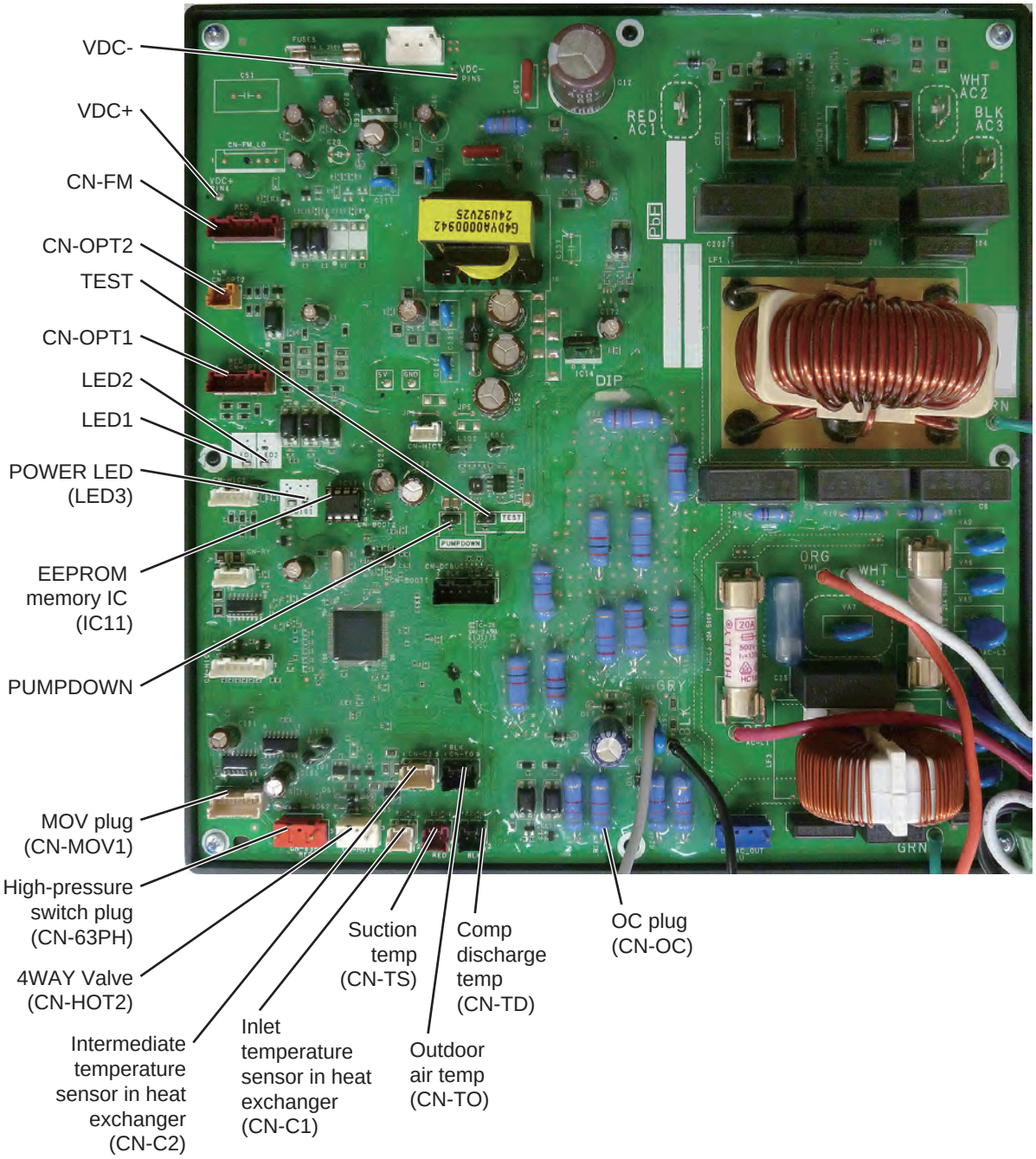
■ HIC-PCB : ACXA73-3554* (U-100PZH3E5)



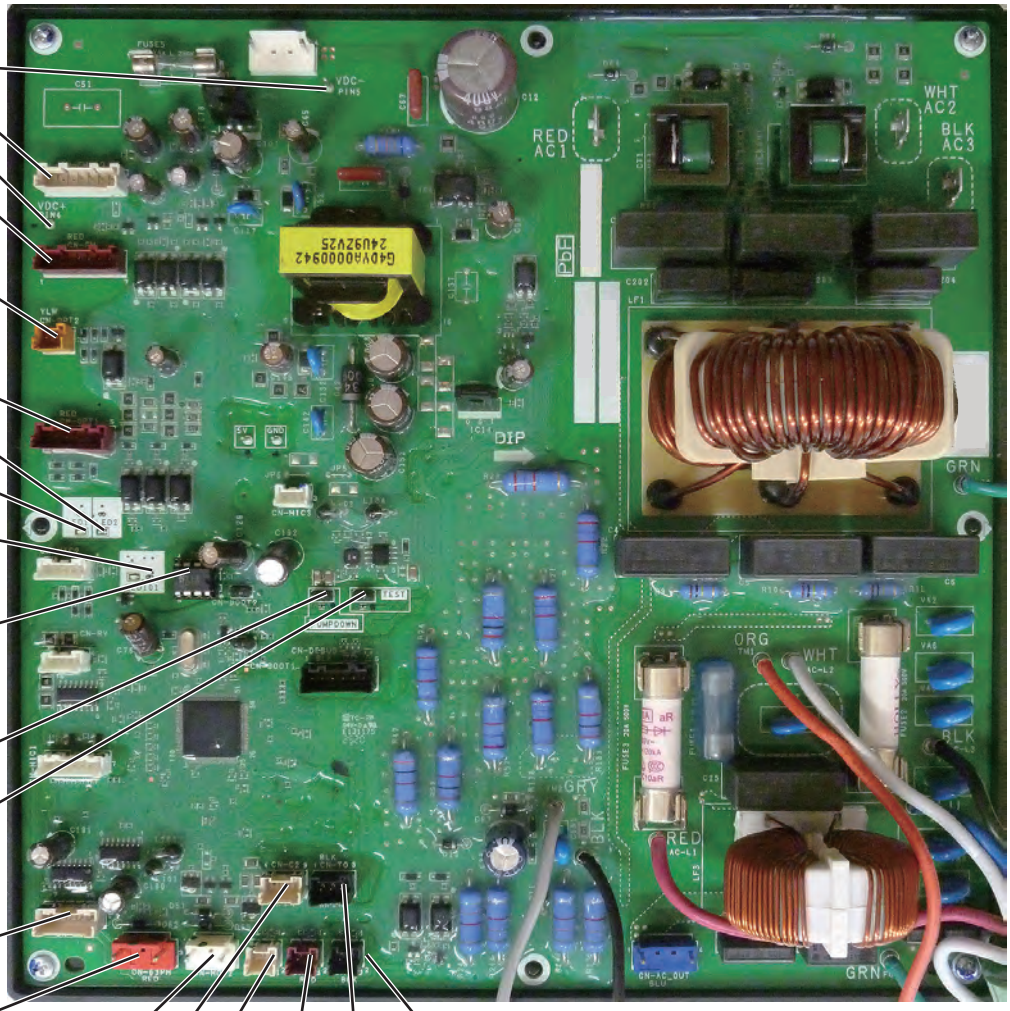
■ HIC-PCB : ACXA73-3553* (U-125PZH3E5, U-140PZH3E5)



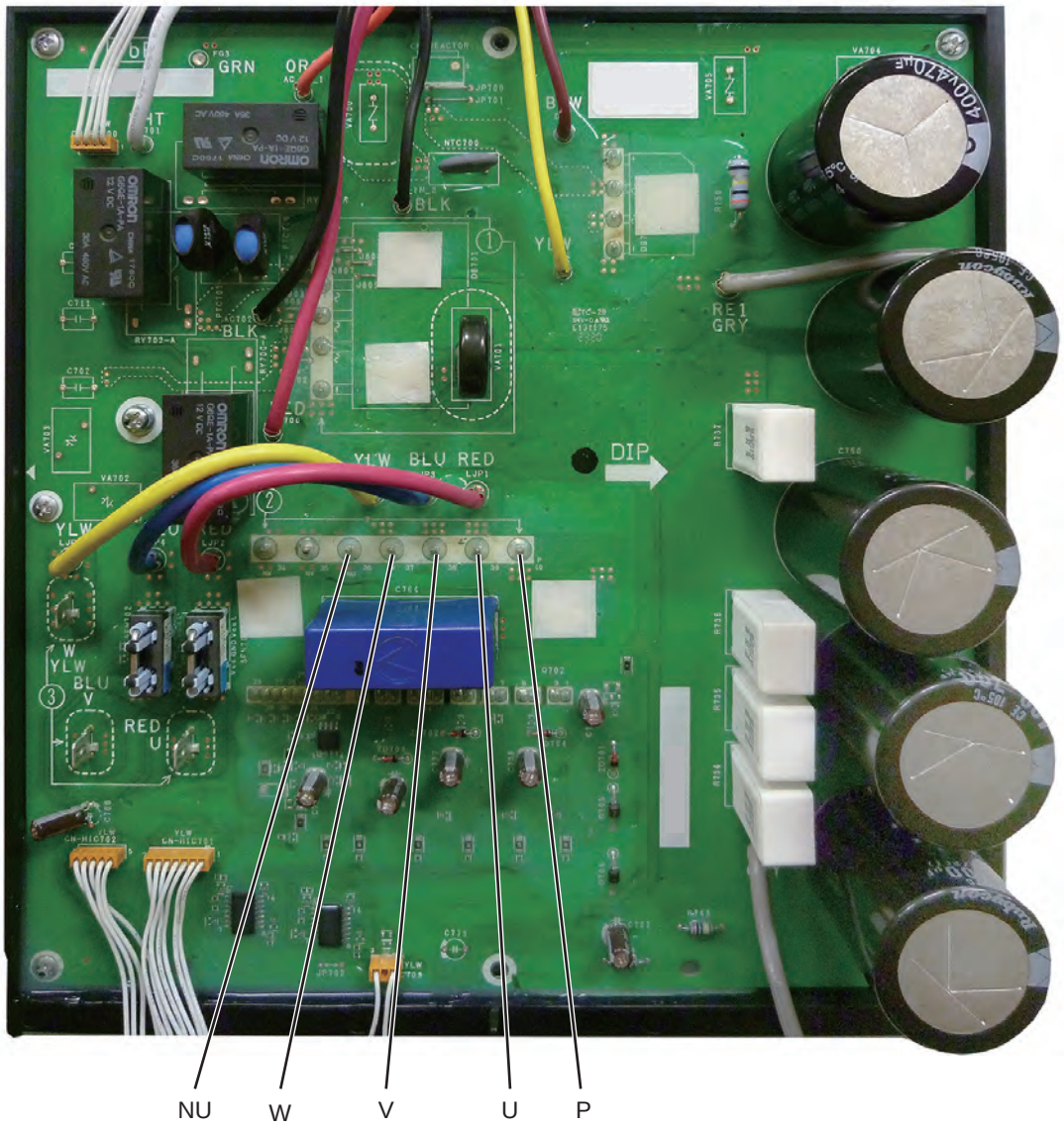
■ CR-PCB : ACXA73-3557* (U-71PZH3E8)



■ CR-PCB : ACXA73-3556* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)

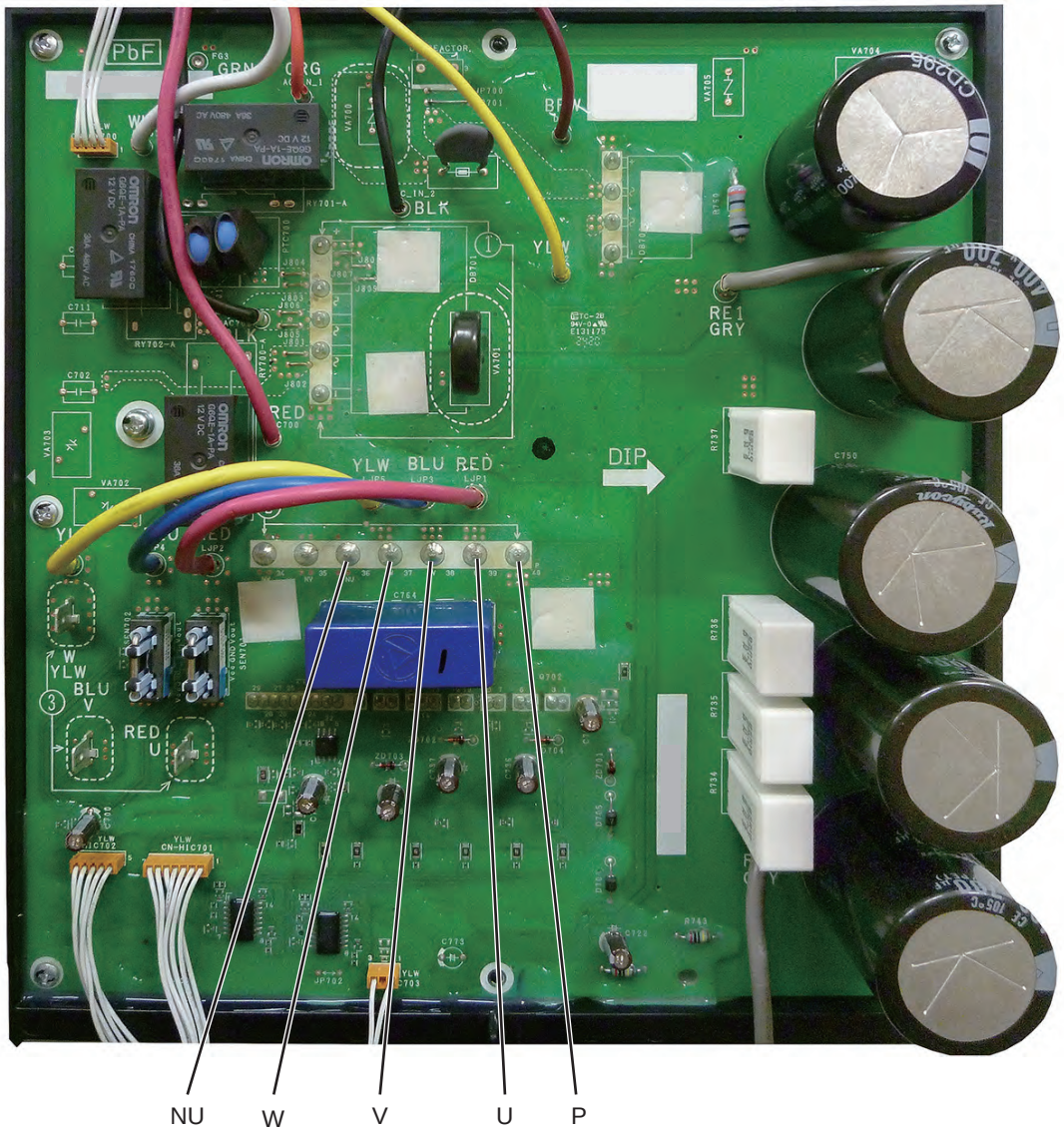


■ HIC-PCB : ACXA73-3559* (U-71PZH3E8)



4

■ HIC-PCB : ACXA73-3558* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)



Functions of Outdoor Unit PCB

LED 1 LED 2	LED (red × 2) • LED 1 and 2 blink alternately while auto address setting is in progress. • Display the alarm contents for alarms that are detected by the outdoor unit.
POWER LED	LED (green): Power indicator Indicates the DC 5V power on the outdoor unit control PCB.
PUMP DOWN	2P plug (black): Refrigerant recovery Pin • Short circuit this Pin to perform refrigerant recovery control using cooling operation. The compressor and the indoor unit fan will be operated in cooling mode for a maximum of 10 minutes. When refrigerant recovery is completed, close the valves and open circuit this Pin to stop the operation.
TEST	2P plug (black) • This Pin is used to test the PCB at the factory. • When the power is turned ON after this Pin has been short-circuited, all output signals will be output in sequence. (Sequential output does not occur if this Pin is short-circuited when the power is already ON.) Releasing this Pin returns the unit to normal control.

4-15. Self-Diagnostics Function Table

4-15-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

• Causes and corrections in instances when auto address setting cannot be started.

Trouble	Cause and correction
An alarm appears immediately when auto address setting is started from the remote controller.	Check the "Alarm Displays" table and correct the problem.
Nothing happens when the operator attempts to start auto address setting from the remote controller.	Check that the remote controller wiring and the connection cable between outdoor and indoor unit are connected correctly. Check that the indoor unit power is ON.

• Causes and corrections in instances when auto address setting starts, but cannot be completed successfully.

Trouble	Cause and correction
An alarm appears on the remote controller sometime from several seconds to several minutes after auto address setting is started.	Check the "Alarm Displays" table and correct the problem.

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• If alarm E15 or E16 appears after auto address setting is started, check the following items.

Alarm display	Alarm description
E15	The total capacity of indoor units is too lower than that of outdoor unit.
E16	The total capacity of indoor units is too higher than that of outdoor unit. The number of indoor units is too many.

Check items	E15	E16
Check that the indoor unit power is turned ON.	○	
Check that the connection cable between outdoor and indoor unit is connected correctly. (Check that there are no open circuits, short circuits, terminal plugs, incorrect wiring to the remote controller terminals, or similar problems.)	○	○
Check that the remote controller wiring is connected correctly. (Check that there are no open circuits, short circuits, incorrect wiring to the connection cable between outdoor and indoor unit terminals, control wiring for group control, or similar problems.)	○	
[U3, F3, K3, T3] Check that there are no indoor units where the item code 11, 12, 13, 14 was already incorrectly set by manual or auto address setting.	○	○

- When auto address setting is started from the remote controller, SETTING (SETTING) appears on the remote controller at units where the connection cable between outdoor and indoor unit and remote controller wiring are connected correctly.
- In the case of indoor unit group control, if there is a mistake in the remote controller connection cable between outdoor and indoor unit for group control, addresses may not be set even if SETTING (SETTING) appears.
- Even if alarm E15 or E16 appears, addresses are set at those indoor units which could be verified. The set addresses can be checked using the remote controller.

- If one of the below alarms appears when the remote controller is operated after auto address setting was completed.

Remote controller display	Cause
Nothing is displayed.	The remote controller is not connected correctly (power trouble). The indoor unit power was cut off after auto address setting was completed.
E01	The remote controller is not connected correctly (remote controller receiving trouble). The remote controller of an indoor unit where the indoor unit address is not set is inadvertently operated. (Communications with the outdoor unit are not possible.)
E02	The remote controller is not connected correctly (trouble with sending of the signal from the remote controller to the indoor unit).
P09	The indoor unit ceiling panel connector is not connected correctly.

Alarms for indoor units

Alarm Code	Alarm Meaning
E01	Remote Controller Reception Error
E02	Remote Controller Transmission Error
E03	Error in Indoor Unit Receiving Signal from Remote Controller (central)
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E08	Duplicate Indoor Unit Address Settings Error
E09	More Than One Remote Controller Set to Main Error
E14	Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E18	Faulty Communication in Group Control Wiring
P09	Faulty wiring connections of (ceiling) indoor unit panel
P31	Group Control Error

Alarms for outdoor units

Alarm Code	Alarm Meaning
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
F04	Compressor Discharge Temperature Sensor (TD) Trouble
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble
F08	Outdoor Air Temperature Sensor (TO) Trouble
H01	Primary (input) Overcurrent Detected
H02	PAM Trouble
H03	Primary Current CT Sensor (current sensor) Failure
L18	4-Way Valve Operation Failure
P03	Compressor Discharge Temperature Trouble
P04	High Pressure Trouble
P05	AC Power Supply Trouble
P07	HIC (IPM) Temperature Trouble
P13	Alarm Valve Open
P15	Insufficient Gas Level Detected
P16	Compressor Overcurrent Trouble
P22	Outdoor Unit Fan Motor Trouble
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure

4-15-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

• Causes and corrections in instances when auto address setting cannot be started.

Trouble	Cause and correction
The power LED on the outdoor unit control PCB does not turn ON.	Check for any errors in the power wiring to the outdoor unit, and check for a missing phase.
LED 1 and 2 on the outdoor unit control PCB do not turn OFF when the outdoor unit power is turned ON, and auto address setting cannot be started.	Check the "Alarm Displays" table and correct the problem.
An alarm appears immediately when auto address setting is started from the remote controller.	
Nothing happens when the operator attempts to start auto address setting from the remote controller.	Check that the remote controller wiring and the connection cable between outdoor and indoor unit are connected correctly. Check that the indoor unit power is ON.

4

• Causes and corrections in instances when auto address setting starts, but cannot be completed successfully.

Trouble	Cause and correction
An alarm appears on the remote controller sometime from several seconds to several minutes after auto address setting is started.	Check the "Alarm Displays" table and correct the problem.
LED 1 and 2 on the outdoor unit control PCB indicate that auto address setting is in progress (the LEDs blink alternately) for several minutes after auto address setting is started (the compressors may also start and stop several times), however, LED 1 and 2 never indicate that auto address setting is completed (turn OFF).	Check the alarm details on the "Outdoor Unit Control PCB LED 1 and 2 Alarms" table, then check the "Alarm Displays" table and correct the problem.

• If alarm E15, E16, or E20 appears after auto address setting is started, check the following items.

Alarm display	Alarm description
E15	The total capacity of indoor units is too lower than that of outdoor unit.
E16	The total capacity of indoor units is too higher than that of outdoor unit. The number of indoor units is too many.
E20	The outdoor unit received no serial signals from indoor units within 90 seconds after auto address setting was started.

Check items	E15	E16	E20
Check that the indoor unit power is turned ON.	○		○
Check that the connection cable between outdoor and indoor unit is connected correctly. (Check that there are no open circuits, short circuits, terminal plugs, incorrect wiring to the remote controller terminals, or similar problems.)	○	○	○
Check that the remote controller wiring is connected correctly. (Check that there are no open circuits, short circuits, incorrect wiring to the connection cable between outdoor and indoor unit terminals, control wiring for group control, or similar problems.)	○		○
[U3, F3, K3, T3] Check that there are no indoor units where the item code 11, 12, 13, 14 was already incorrectly set by manual or auto address setting.	○	○	

- When auto address setting is started from the outdoor unit control PCB or from the remote controller, SETTING (SETTING) appears on the remote controller at units where the connection cable between outdoor and indoor unit and remote controller wiring are connected correctly. LED 1 and 2 on the outdoor unit control PCB blink alternately.
- In the case of indoor unit group control, if there is a mistake in the remote controller connection cable between outdoor and indoor unit for group control, addresses may not be set even if SETTING (SETTING) appears.
- Even if alarm E15 or E16 appears, addresses are set at those indoor units which could be verified. The set addresses can be checked using the remote controller.

4

- If one of the below alarms appears when the remote controller is operated after auto address setting was completed (LED 1 and 2 on the outdoor unit control PCB are turned OFF), follow the instructions in the table below and correct the problem location.

Remote controller display	Cause
Nothing is displayed.	The remote controller is not connected correctly (power trouble). The indoor unit power was cut off after auto address setting was completed.
E01	The remote controller is not connected correctly (remote controller receiving trouble). The remote controller of an indoor unit where the indoor unit address is not set is inadvertently operated. (Communications with the outdoor unit are not possible.)
E02	The remote controller is not connected correctly (trouble with sending of the signal from the remote controller to the indoor unit).
P09	The indoor unit ceiling panel connector is not connected correctly.

Alarms for indoor units

Alarm Code	Alarm Meaning
E01	Remote Controller Reception Error
E02	Remote Controller Transmission Error
E03	Error in Indoor Unit Receiving Signal from Remote Controller (central)
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E08	Duplicate Indoor Unit Address Settings Error
E09	More Than One Remote Controller Set to Main Error
E14	Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E18	Faulty Communication in Group Control Wiring

P09	Faulty wiring connections of (ceiling) indoor unit panel
P31	Group Control Error

Alarms for outdoor units

Alarm Code	Alarm Meaning
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E06	Outdoor Unit Failed to Receive Serial Communication Signals from Indoor Unit
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E20	Connection Problem of Indoor / Outdoor Units
F04	Compressor Discharge Temperature Sensor (TD) Trouble
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble
F07	Intermediate Temperature Sensor (C2) in Heat Exchanger Trouble
F08	Outdoor Air Temperature Sensor (TO) Trouble
F12	Compressor Inlet Suction Temperature Sensor (TS) Trouble
F31	Outdoor Unit Nonvolatile Memory (EEPROM) Trouble
H01	Primary (input) Overcurrent Detected
H02	PAM Trouble
H03	Primary Current CT Sensor (current sensor) Failure
H31	HIC Trouble
L10	Outdoor Unit Capacity not Set or Invalid
L13	Indoor Unit Type Setting Error
L18	4-Way Valve Operation Failure
P03	Compressor Discharge Temperature Trouble
P04	High Pressure Trouble
P05	AC Power Supply Trouble
P13	Alarm Valve Open
P15	Insufficient Gas Level Detected
P16	Compressor Overcurrent Trouble
P22	Outdoor Unit Fan Motor Trouble
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure
P31	Group Control Error

- The number of times that LED 1 and 2 blink on the outdoor unit control PCB can be used to check the alarm display. (See "Checking the LED 1 and 2 Alarm Display on the Outdoor Unit Control PCB".)

Contents of LED Display on the Outdoor Unit Control PCB (CR)

		LED1	LED2	Remark
Normal operation				
Pre-trip (High pressure protection)		○		LED1 Blinking : 0.8sec-ON / 0.3sec-OFF
Pre-trip (other)		○		LED1 Blinking : 0.5sec-ON / 0.5sec-OFF
Alternate blinking of outdoor unit LED during alarms	LED1 blinks M times, and then LED2 blinks N times. The cycle then repeats. M=2:P alarm, 3:H alarm, 4:E alarm, 5:F alarm, 6:L alarm, N=alarm No Example: LED1 blinks 4 times, then LED2 blinks 6 times. The cycle then repeats. Alarm is “E06”			
Refrigerant recovery mode		○	●	

○ : Blinking ● : ON

4-15-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

• Causes and corrections in instances when auto address setting cannot be started.

Trouble	Cause and correction
The power LED on the outdoor unit control PCB does not turn ON.	Check for any errors in the power wiring to the outdoor unit, and check for a missing phase.
LED 1 and 2 on the outdoor unit control PCB do not turn OFF when the outdoor unit power is turned ON, and auto address setting cannot be started.	Check the "Alarm Displays" table and correct the problem.
An alarm appears immediately when auto address setting is started from the remote controller.	
Nothing happens when the operator attempts to start auto address setting from the remote controller.	Check that the remote controller wiring and the connection cable between outdoor and indoor unit are connected correctly. Check that the indoor unit power is ON.

4

• Causes and corrections in instances when auto address setting starts, but cannot be completed successfully.

Trouble	Cause and correction
An alarm appears on the remote controller sometime from several seconds to several minutes after auto address setting is started.	Check the "Alarm Displays" table and correct the problem.
LED 1 and 2 on the outdoor unit control PCB indicate that auto address setting is in progress (the LEDs blink alternately) for several minutes after auto address setting is started (the compressors may also start and stop several times), however, LED 1 and 2 never indicate that auto address setting is completed (turn OFF).	Check the alarm details on the "Outdoor Unit Control PCB LED 1 and 2 Alarms" table, then check the "Alarm Displays" table and correct the problem.

• If alarm E15, E16, or E20 appears after auto address setting is started, check the following items.

Alarm display	Alarm description
E15	The total capacity of indoor units is too lower than that of outdoor unit.
E16	The total capacity of indoor units is too higher than that of outdoor unit. The number of indoor units is too many.
E20	The outdoor unit received no serial signals from indoor units within 90 seconds after auto address setting was started.

Check items	E15	E16	E20
Check that the indoor unit power is turned ON.	○		○
Check that the connection cable between outdoor and indoor unit is connected correctly. (Check that there are no open circuits, short circuits, terminal plugs, incorrect wiring to the remote controller terminals, or similar problems.)	○	○	○
Check that the remote controller wiring is connected correctly. (Check that there are no open circuits, short circuits, incorrect wiring to the connection cable between outdoor and indoor unit terminals, control wiring for group control, or similar problems.)	○		○
[U3, F3, K3, T3] Check that there are no indoor units where the item code 11, 12, 13, 14 was already incorrectly set by manual or auto address setting.	○	○	

- When auto address setting is started from the outdoor unit control PCB or from the remote controller, SETTING (SETTING) appears on the remote controller at units where the connection cable between outdoor and indoor unit and remote controller wiring are connected correctly. LED 1 and 2 on the outdoor unit control PCB blink alternately.
- In the case of indoor unit group control, if there is a mistake in the remote controller connection cable between outdoor and indoor unit for group control, addresses may not be set even if SETTING (SETTING) appears.
- Even if alarm E15 or E16 appears, addresses are set at those indoor units which could be verified. The set addresses can be checked using the remote controller.

4

- If one of the below alarms appears when the remote controller is operated after auto address setting was completed (LED 1 and 2 on the outdoor unit control PCB are turned OFF), follow the instructions in the table below and correct the problem location.

Remote controller display	Cause
Nothing is displayed.	The remote controller is not connected correctly (power trouble). The indoor unit power was cut off after auto address setting was completed.
E01	The remote controller is not connected correctly (remote controller receiving trouble). The remote controller of an indoor unit where the indoor unit address is not set is inadvertently operated. (Communications with the outdoor unit are not possible.)
E02	The remote controller is not connected correctly (trouble with sending of the signal from the remote controller to the indoor unit).
P09	The indoor unit ceiling panel connector is not connected correctly.

Alarms for indoor units

Alarm Code	Alarm Meaning
E01	Remote Controller Reception Error
E02	Remote Controller Transmission Error
E03	Error in Indoor Unit Receiving Signal from Remote Controller (central)
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E08	Duplicate Indoor Unit Address Settings Error
E09	More Than One Remote Controller Set to Main Error
E14	Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E18	Faulty Communication in Group Control Wiring

P09	Faulty wiring connections of (ceiling) indoor unit panel
P31	Group Control Error

Alarms for outdoor units

Alarm Code	Alarm Meaning
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E06	Outdoor Unit Failed to Receive Serial Communication Signals from Indoor Unit
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E20	Connection Problem of Indoor / Outdoor Units

F04	Compressor Discharge Temperature Sensor (TD) Trouble
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble
F07	Intermediate Temperature Sensor (C2) in Heat Exchanger Trouble
F08	Outdoor Air Temperature Sensor (TO) Trouble
F12	Compressor Inlet Suction Temperature Sensor (TS) Trouble
F31	Outdoor Unit Nonvolatile Memory (EEPROM) Trouble

H01	Primary (input) Overcurrent Detected
H02	PAM Trouble
H03	Primary Current CT Sensor (current sensor) Failure
H31	HIC Trouble

L10	Outdoor Unit Capacity not Set or Invalid
L13	Indoor Unit Type Setting Error
L18	4-Way Valve Operation Failure

P03	Compressor Discharge Temperature Trouble
P04	High Pressure Trouble
P05	AC Power Supply Trouble
P13	Alarm Valve Open
P15	Insufficient Gas Level Detected
P16	Compressor Overcurrent Trouble
P22	Outdoor Unit Fan Motor Trouble
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure
P31	Group Control Error

- The number of times that LED 1 and 2 blink on the outdoor unit control PCB can be used to check the alarm display. (See "Checking the LED 1 and 2 Alarm Display on the Outdoor Unit Control PCB".)

Contents of LED Display on the Outdoor Unit Control PCB (CR)

		LED1	LED2	Remark
Normal operation				
Pre-trip (High pressure protection)		○		LED1 Blinking : 0.8sec-ON / 0.3sec-OFF
Pre-trip (other)		○		LED1 Blinking : 0.5sec-ON / 0.5sec-OFF
Alternate blinking of outdoor unit LED during alarms	LED1 blinks M times, and then LED2 blinks N times. The cycle then repeats. M=2:P alarm, 3:H alarm, 4:E alarm, 5:F alarm, 6:L alarm, N=alarm No Example: LED1 blinks 4 times, then LED2 blinks 6 times. The cycle then repeats. Alarm is “E06”			
Refrigerant recovery mode		○	●	

○ : Blinking ● : ON

– MEMO –

5. TROUBLE DIAGNOSIS

5-1. Contents of Remote Controller Switch Alarm Display 5-1-1-1
5-1-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A
U-36PZH3E5, U-50PZH3E5, U-60PZH3E5 5-1-1-1
5-1-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8 5-1-2-1
5-1-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8 5-1-3-1
5-2. PAC System Alarm Codes 5-2-1-1
5-2-1. Indoor 5-2-1-1
5-2-2. Outdoor 5-2-2-1-1
5-2-2-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A
U-36PZH3E5, U-50PZH3E5, U-60PZH3E5 5-2-2-1-1
5-2-2-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8 5-2-2-2-1
5-2-2-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8 5-2-2-3-1
5-3. Inspection of Parts (Outdoor Unit) 5-3-1
5-4. How to Replace Fan Motor 5-4-1
5-5. Removing Drain Pan 5-5-1
5-6. Replacing nanoe unit 5-6-1
5-7. How to Replace Receiver PCB of Wireless remote controller CZ-RWRY3 5-7-1

5-1. Contents of Remote Controller Switch Alarm Display

5-1-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

ON: ○ Blinking: ☼ OFF: ●

Possible cause of malfunction			Wired remote control display	Wireless remote controller receiver display (Operation / Timer / Standby)
Serial communication errors Missetting	Failure in receiving serial signal from remote controller's indoor unit	Faulty remote controller	E01	Operating lamp blinking ☼ ● ●
		Disconnection / Contact failure of remote controller wiring		
		CHK(check) pins on the indoor unit control PCB are short circuited		
	Settings of system address, indoor unit address and group control are not made	In the case of non-group control: ・Power supply OFF of outdoor unit ・Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out.		
	Setting failure of nonvolatile memory IC	Faulty setting of EEPROM (IC010) on indoor unit		
	Failure in indoor unit serial signal from remote controller	Faulty remote controller	E02	
		Wrong wiring of remote controller		
	Error in indoor unit receiving signal from remote controller (central)		E03	
	Failure in indoor unit receiving serial signal from outdoor unit	Disconnection / Contact failure of indoor / outdoor control line*	E04	Standby lamp blinking ● ● ☼
		・Faulty indoor unit control PCB ・Faulty outdoor unit control PCB ・Communication circuit fuse (F302) on indoor unit control PCB opened		
		・Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB and outdoor unit fan motor are exchanged simultaneously.		
		・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.		
	Duplication of indoor unit address	Duplication of indoor unit address setting	E08	Operating lamp blinking ☼ ● ●
	Duplication of main remote controller setting	Error because of more than one remote controller setting to main	E09	
	Improper setting	Duplication of main unit in group control	E14	
	Communication error between main and sub indoor units	・Disconnection of wiring between main unit and additional units ・Contact failure of wiring ・Faulty indoor unit control PCB (Main or Addition)	E18	
	Auto address alarm	The total capacity of indoor units is too low.	E15	Standby lamp blinking ● ● ☼
		・The total capacity of indoor units is too high ・The numbers of indoor units is too many	E16	
	Indoor & outdoor unit type mismatched	Setting error, indoor / outdoor unit type / model mismatched	L02	Operating and Standby lamps blinking simultaneously ☼ ● ☼
	Duplication of group control's main indoor unit	Duplication of main indoor unit address in group control	L03	
	Group control wiring is connected to individual control indoor unit	Group control wiring is connected to individual control indoor unit	L07	
	Indoor unit address is not set		L08	
	Indoor unit capacity is not set		L09	
	4-way valve locked trouble / operation failure		L18	Operating and Standby lamps blinking simultaneously ☼ ○ ☼

Continued

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

ON: ○ Blinking: ☼ OFF: ●

Possible cause of malfunction			Wired remote control display	Wireless remote controller receiver display (Operation / Timer / Standby)
Activation of protective device	Indoor unit fan motor trouble	Indoor unit fan motor locked	P01	Timer and standby lamp blinking alternately ● ☼ ☼
		Indoor unit fan motor layer short		
		Contact failure in thermostat protector circuit		
	Faulty wiring connections of (ceiling) indoor unit panel		P09	
	Activation of float switch wiring	Faulty drain pump	P10	
		Drainage failure		
		Contact failure of float switch wiring		
		High water alarm for the case of Middle static pressure duct (PF) model installed vertically		
	Faulty drain pump	Faulty drain pump	P11	
		Drain pump locked		
	Indoor unit fan motor trouble	Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	P12	
	Valve error	Valve error Refrigerant circuit error Wrong installation for refrigerant piping and wiring	P13	
	Discharge temperature protective alarm	Compressor discharge temperature trouble	P03	Operating and standby lamp blinking alternately ☼ ● ☼
	Activation of high pressure switch	Condensing pressure trouble	P04	
	Power supply failure	Open phase detected AC power supply trouble	P05	
	HIC sensor trouble	HIC(IPM) temperature trouble	P07	
	Insufficient gas	Insufficient gas level detected	P15	
	Compressor overcurrent trouble		P16	
	Fan motor locked / reversed airflow detected	Outdoor unit fan motor trouble Outdoor unit fan trouble	P22	
	Inverter compressor trouble		P29	
	Group control trouble	Indoor unit in group control trouble	P31	
	Activation of current control compressor's protective device	Primary (input) overcurrent detected	H01	Timer lamp blinking ● ☼ ●
	PAM trouble (overcurrent / over-voltage), Activation of compressor's protective device	PAM trouble	H02	
	Primary current control, Activation of compressor's protective device	Primary current CT sensor failure	H03	
Thermistor fault	Indoor unit thermistor open / short	Indoor heat exchanger temperature sensor (E1) trouble	F01	Operating and timer lamp blinking alternately ☼ ☼ ●
		Indoor heat exchanger temperature sensor (E2) trouble	F02	
		Indoor air temperature sensor (TA) trouble	F10	
	Outdoor unit thermistor open / short	Compressor discharge temperature sensor (TD) trouble	F04	Operating and timer lamp blinking alternately ☼ ☼ ○
		Outdoor heat exchanger temperature sensor (C1) trouble	F06	
		Outdoor air temperature sensor (TO) trouble	F08	
Nonvolatile memory failure		Indoor unit EEPROM trouble	F29	Operating and timer lamp blinking simultaneously ☼ ☼ ●

5

5-1-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

ON: ○ Blinking: ☼ OFF: ●

Possible cause of malfunction			Wired remote control display	Wireless remote controller receiver display (Operation / Timer / Standby)
Serial communication errors Missetting	Failure in receiving serial signal from remote controller's indoor unit	Faulty remote controller	E01	Operating lamp blinking ☼ ● ●
		Disconnection / Contact failure of remote controller wiring		
		CHK(check) pins on the indoor unit control PCB are short circuited		
	Settings of system address, indoor unit address and group control are not made	In the case of non-group control: ・Power supply OFF of outdoor unit ・Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out		
	Setting failure of nonvolatile memory IC	Faulty setting of EEPROM (IC010) on indoor unit		
	Failure in indoor unit serial signal from remote controller	Faulty remote controller	E02	
		Wrong wiring of remote controller		
	Error in indoor unit receiving signal from remote controller (central)		E03	
	Failure in indoor unit receiving serial signal from outdoor unit	Disconnection / Contact failure of indoor / outdoor control line*	E04	Standby lamp blinking ● ● ☼
		・Faulty indoor unit control PCB ・Faulty outdoor unit control PCB ・Communication circuit fuse (F302) on indoor unit control PCB opened		
		・Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB(CR/HIC) and outdoor unit fan motor are exchanged simultaneously.		
		・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.		
	Failure in outdoor unit receiving serial signal from indoor unit	・Disconnection / Contact failure of indoor / outdoor control line*	E06	
		・Disconnection of indoor / outdoor control line* ・Communication circuit fuse (F302) on indoor unit control PCB opened		
		Indoor unit control PCB address setting error		
	Duplication of indoor unit address	Duplication of indoor unit address setting	E08	Operating lamp blinking ☼ ● ●
	Duplication of main remote controller setting	Error because of more than one remote controller setting to main	E09	
	Improper setting	Duplication of main unit in group control	E14	
	Communication error between main and sub indoor units	・Disconnection of wiring between main unit and additional units ・Contact failure of wiring ・Faulty indoor unit control PCB (Main or Addition)	E18	
	Auto address alarm	The total capacity of indoor units is too low.	E15	Standby lamp blinking ● ● ☼
		・The total capacity of indoor units is too high ・The numbers of indoor units is too many	E16	
		No indoor unit connected	E20	
	Indoor & outdoor unit type mismatched	Setting error, indoor / outdoor unit type / model mismatched	L02	Operating and Standby lamps blinking simultaneously ☼ ● ☼
	Duplication of group control's main indoor unit	Duplication of main indoor unit address in group control	L03	
	Group control wiring is connected to individual control indoor unit	Group control wiring is connected to individual control indoor unit	L07	
	Indoor unit address is not set		L08	
	Indoor unit capacity is not set		L09	
	Outdoor unit capacity is not set or setting error		L10	Operating and Standby lamps blinking simultaneously ☼ ○ ☼
	Indoor unit type setting error Type of indoor / outdoor units is different		L13	
	4-way valve locked trouble / operation failure		L18	

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

Continued

ON: ○ Blinking: ☼ OFF: ●

Possible cause of malfunction			Wired remote control display	Wireless remote controller receiver display (Operation / Timer / Standby)
Activation of protective device	Indoor unit fan motor trouble	Indoor unit fan motor locked	P01	Timer and standby lamp blinking alternately ● ☼ ☼
		Indoor unit fan motor layer short		
		Contact failure in thermostat protector circuit		
	Faulty wiring connections of (ceiling) indoor unit panel		P09	
	Activation of float switch wiring	Faulty drain pump	P10	
		Drainage failure		
		Contact failure of float switch wiring		
		High water alarm for the case of Middle static pressure duct (PF) model installed vertically		
	Faulty drain pump	Faulty drain pump	P11	
		Drain pump locked		
	Indoor unit fan motor trouble	Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	P12	
	Valve error	Valve error Refrigerant circuit error Wrong installation for refrigerant piping and wiring	P13	
	Discharge temperature protective alarm	Compressor discharge temperature trouble	P03	Operating and standby lamp blinking alternately ☼ ● ☼
	Activation of high pressure switch	Compressor discharge pressure trouble	P04	
	Power supply failure	Open phase detected AC power supply trouble	P05	
	Insufficient gas	Insufficient gas level detected	P15	
	Compressor overcurrent trouble		P16	
	Fan motor locked / reversed airflow detected	Outdoor unit fan motor trouble Outdoor unit fan trouble	P22	
	Inverter compressor trouble		P29	
	Group control trouble	Indoor unit in group control trouble	P31	
	Activation of current control compressor's protective device	Primary (input) overcurrent detected	H01	Timer lamp blinking ● ☼ ●
	PAM trouble (overcurrent / over-voltage), Activation of compressor's protective device	PAM trouble	H02	
	Primary current control, Activation of compressor's protective device	Primary current CT sensor failure	H03	
	HIC trouble	HIC trouble DC voltage not detected	H31	
Thermistor fault	Indoor unit thermistor open / short	Indoor heat exchanger temperature sensor (E1) trouble	F01	Operating and timer lamp blinking alternately ☼ ☼ ●
		Indoor heat exchanger temperature sensor (E2) trouble	F02	
		Indoor air temperature sensor (TA) trouble	F10	
	Outdoor unit thermistor open / short	Compressor discharge temperature sensor (TD) trouble	F04	Operating and timer lamp blinking alternately ☼ ☼ ○
		Outdoor heat exchanger temperature sensor (C1) trouble	F06	
		Outdoor heat exchanger temperature sensor (C2) trouble	F07	
		Outdoor air temperature sensor (TO) trouble	F08	
		Compressor suction temperature sensor (TS) trouble	F12	
Nonvolatile memory failure		Indoor unit EEPROM trouble	F29	Operating and timer lamp blinking simultaneously ☼ ☼ ●
		Outdoor unit EEPROM trouble	F31	Operating and timer lamp blinking simultaneously ☼ ☼ ○

5

5-1-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

ON: ○ Blinking: ☼ OFF: ●

Possible cause of malfunction			Wired remote control display	Wireless remote controller receiver display
				Operation / Timer / Standby
Serial communication errors Missetting	Failure in receiving serial signal from remote controller's indoor unit	Faulty remote controller	E01	Operating lamp blinking ☼ ● ●
		Disconnection / Contact failure of remote controller wiring		
		CHK(check) pins on the indoor unit control PCB are short circuited		
	Settings of system address, indoor unit address and group control are not made	In the case of non-group control: ・Power supply OFF of outdoor unit ・Disconnection / Contact failure of indoor / outdoor control line* In the case of group control: Auto address operation was not carried out		
	Setting failure of nonvolatile memory IC	Faulty setting of EEPROM (IC010) on indoor unit		
	Failure in indoor unit serial signal from remote controller	Faulty remote controller	E02	
		Wrong wiring of remote controller		
	Error in indoor unit receiving signal from remote controller (central)		E03	
	Failure in indoor unit receiving serial signal from outdoor unit	Disconnection / Contact failure of indoor / outdoor control line*	E04	Standby lamp blinking ● ● ☼
		・Faulty indoor unit control PCB ・Faulty outdoor unit control PCB ・Communication circuit fuse (F302) on indoor unit control PCB opened		
		・Fuse on outdoor unit control PCB opened Since failure of an outdoor fan motor is considered as a cause, both outdoor unit control PCB(CR/HIC) and outdoor unit fan motor are exchanged simultaneously.		
		・Setting error of indoor unit address ・Capacity of indoor / outdoor units is mismatched.		
	Failure in outdoor unit receiving serial signal from indoor unit	・Disconnection / Contact failure of indoor / outdoor control line*	E06	
		・Disconnection of indoor / outdoor control line* ・Communication circuit fuse (F302) on indoor unit control PCB opened		
		Indoor unit control PCB address setting error		
	Duplication of indoor unit address	Duplication of indoor unit address setting	E08	Operating lamp blinking ☼ ● ●
	Duplication of main remote controller setting	Error because of more than one remote controller setting to main	E09	
	Improper setting	Duplication of main unit in group control	E14	
	Communication error between main and sub indoor units	・Disconnection of wiring between main unit and additional units ・Contact failure of wiring ・Faulty indoor unit control PCB (Main or Addition)	E18	
	Auto address alarm	The total capacity of indoor units is too low.	E15	Standby lamp blinking ● ● ☼
		・The total capacity of indoor units is too high ・The numbers of indoor units is too many	E16	
		No indoor unit connected	E20	
	Indoor & outdoor unit type mismatched	Setting error, indoor / outdoor unit type / model mismatched	L02	Operating and Standby lamps blinking simultaneously ☼ ● ☼
	Duplication of group control's main indoor unit	Duplication of main indoor unit address in group control	L03	
	Group control wiring is connected to individual control indoor unit	Group control wiring is connected to individual control indoor unit	L07	
	Indoor unit address is not set		L08	
	Indoor unit capacity is not set		L09	
	Outdoor unit capacity is not set or setting error		L10	Operating and Standby lamps blinking simultaneously ☼ ○ ☼
	Indoor unit type setting error Type of indoor / outdoor units is different		L13	
	4-way valve locked trouble / operation failure		L18	

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

Continued

ON: ○ Blinking: ☼ OFF: ●

Possible cause of malfunction			Wired remote control display	Wireless remote controller receiver display (Operation / Timer / Standby)
Activation of protective device	Indoor unit fan motor trouble	Indoor unit fan motor locked	P01	Timer and standby lamp blinking alternately ● ☼ ☼
		Indoor unit fan motor layer short		
		Contact failure in thermostat protector circuit		
	Faulty wiring connections of (ceiling) indoor unit panel		P09	
	Activation of float switch wiring	Faulty drain pump	P10	
		Drainage failure		
		Contact failure of float switch wiring		
		High water alarm for the case of Middle static pressure duct (PF) model installed vertically		
	Faulty drain pump	Faulty drain pump	P11	
		Drain pump locked		
	Indoor unit fan motor trouble	Indoor unit fan motor locked Faulty wiring connections of indoor unit fan motor	P12	
	Valve error	Valve error Refrigerant circuit error Wrong installation for refrigerant piping and wiring	P13	
	Discharge temperature protective alarm	Compressor discharge temperature trouble	P03	Operating and standby lamp blinking alternately ☼ ● ☼
	Activation of high pressure switch	Compressor discharge pressure trouble	P04	
	Power supply failure	Open phase detected AC power supply trouble	P05	
	Insufficient gas	Insufficient gas level detected	P15	
	Compressor overcurrent trouble		P16	
	Fan motor locked / reversed airflow detected	Outdoor unit fan motor trouble Outdoor unit fan trouble	P22	
	Inverter compressor trouble		P29	
	Group control trouble	Indoor unit in group control trouble	P31	
	Activation of current control compressor's protective device	Primary (input) overcurrent detected	H01	Timer lamp blinking ● ☼ ●
	PAM trouble (overcurrent / over-voltage), Activation of compressor's protective device	PAM trouble	H02	
	Primary current control, Activation of compressor's protective device	Primary current CT sensor failure	H03	
	HIC trouble	HIC trouble DC voltage not detected	H31	
Thermistor fault	Indoor unit thermistor open / short	Indoor heat exchanger temperature sensor (E1) trouble	F01	Operating and timer lamp blinking alternately ☼ ☼ ●
		Indoor heat exchanger temperature sensor (E2) trouble	F02	
		Indoor air temperature sensor (TA) trouble	F10	
	Outdoor unit thermistor open / short	Compressor discharge temperature sensor (TD) trouble	F04	Operating and timer lamp blinking alternately ☼ ☼ ○
		Outdoor heat exchanger temperature sensor (C1) trouble	F06	
		Outdoor heat exchanger temperature sensor (C2) trouble	F07	
		Outdoor air temperature sensor (TO) trouble	F08	
		Compressor suction temperature sensor (TS) trouble	F12	
Nonvolatile memory failure		Indoor unit EEPROM trouble	F29	Operating and timer lamp blinking simultaneously ☼ ☼ ●
		Outdoor unit EEPROM trouble	F31	Operating and timer lamp blinking simultaneously ☼ ☼ ○

5

5-2. PAC System Alarm Codes

5-2-1. Indoor

Alarms for indoor units

Alarm Code	Alarm Meaning
E01	Remote Controller Reception Error
E02	Remote Controller Transmission Error
E03	Error in Indoor Unit Receiving Signal from Remote Controller (central)
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E08	Duplicate Indoor Unit Address Settings Error
E09	More Than One Remote Controller Set to Main Error
E14	Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E18	Faulty Communication in Group Control Wiring
P09	Faulty wiring connections of (ceiling) indoor unit panel
P31	Group Control Error

Check Prior to Auto Address Setting

In the case of below, conduct this process after diagnosing the problem.

- The remote controller or the outdoor unit displays an alarm
- The “Assigning” screen appears on the LCD display for more than 10 minutes

1 Auto Address	1-1	Is the power of the indoor unit(s) and outdoor unit(s) on?	Yes	2-1
			No	Power on
2 Indoor / outdoor wiring	2-1	Has the wiring of the indoor / outdoor been completed? Is it all connected correctly?	Yes	3-1
			No	Connect the wiring correctly
3 Installation or setting related	3-1	Be sure that the indoor and outdoor units are connected with correct combination written in catalog.	Yes	3-2
			No	Correct the connection
	3-2	Is the remote control wiring connected with two indoor / outdoor combinations or more for group control?	Yes	3-3
			No	3-4
	3-3	Turn on the power of only one system and run auto address setting again. Upon completion of the auto address setting, turn on the power for the next system and run auto address setting while still power switched on, units whose auto address setting have completed. (In the case of multiple systems, run the auto address setting respectively in due order for each system.)		
	3-4	Run the auto address setting.		
4 Relocation and resetting of address [U3, F3, K3, T3]	4-1	Be sure that the indoor and outdoor units are connected with correct combination described in the catalog.	Yes	4-2
			No	Correct the connection
	4-2	Be sure that the detailed setting items are made at factory setting.	Yes	4-3
			No	Correct the setting
	4-3	Run the auto address setting.		

- For information on the remote control’s detailed settings, see 7-3 and 7-4.

- **Factory setting**

Item code	Item	Value
11	Indoor unit capacity	0
12	System address	99
13	Indoor unit address	99
14	Group control address	99

NOTE

The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units.
If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings.
It is necessary to set the auto address settings once again.

E01 Remote Controller Reception Error (When indoor unit(s) are connected)

1. Error Detection Method

It is judged an error if no self-addressed communication is sent to the remote controller in a 3-minute period.

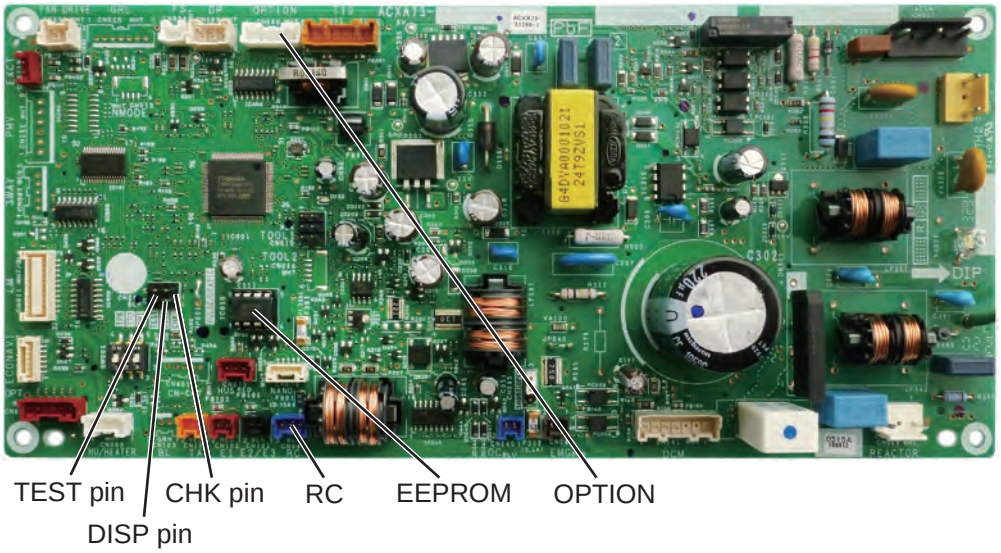
- When a remote controller is set to sub remote controller.
- When there are nine or more indoor units in a remote control group's wiring.
- When the CHK (check pin) and / or TEST (test pin) on the indoor unit control PC board are short circuited.
- The nonvolatile memory (EEPROM) is not installed or faulty when turning on the power.
- Indoor unit control PC board error.
- Remote controller check mode.
- Malfunctions of the remote controller itself (reception circuit error).

2. Error Diagnosis

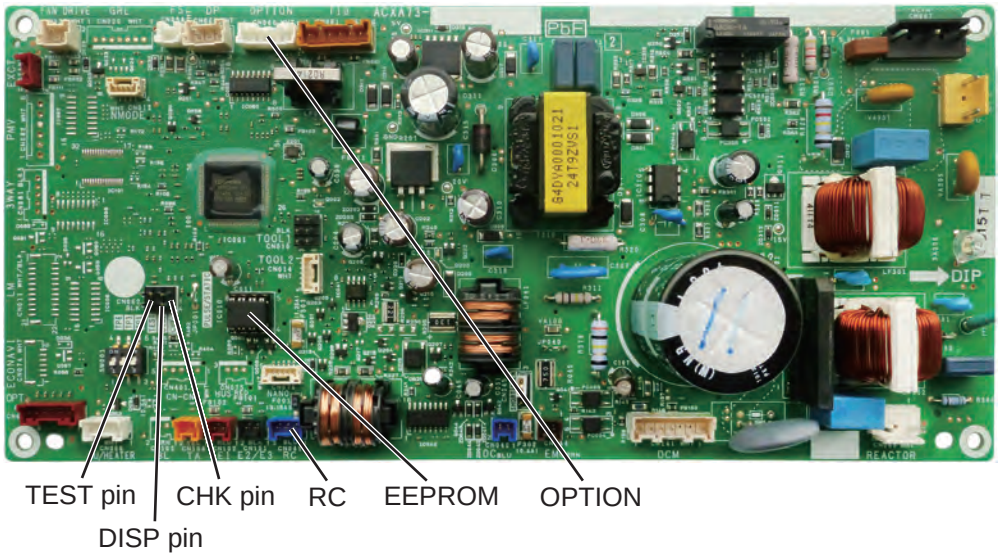
1 Auto Address	1-1	Is auto address setting complete?	Yes	1-2
			No	1-3
	1-2	Is there an auto address setting error (Is the outdoor unit showing an alarm)?	Yes	1-3
			No	2-1
	1-3	Conduct checks prior to auto address setting.		
2 Group Control Wiring	2-1	Is that indoor unit under group control?	Yes	2-2
			No	3-1
	2-2	Are there any indoor units with their power off in the remote control group's wiring?	Yes	Power on
			No	2-3
	2-3	Are nine or more indoor units connected in one remote control group's wiring?	Yes	Correct the wiring
			No	2-4
	2-4	Was the remote control group's wiring changed after auto address setting was complete? Alternatively, were group settings changed in the remote control detailed settings mode?	Yes	2-5
			No	3-1
	2-5	No main unit in the remote control group's wiring? Re-execute auto address setting.		
3 Installation or setting related	3-1	Are the CHK pin and TEST pin on the indoor unit control board short-circuited?	Yes	Remove the short
			No	3-2
	3-2	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	3-3
			No	3-5
	3-3	Disconnect the connector mentioned above on the PC board of the indoor unit control PC board, and see whether the E01 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	3-4
			No	3-5
	3-4	Replace wireless remote control parts including wiring.		
	3-5	Is the LED blinking on the indoor unit's control PC board?	Yes	3-6
			No	3-7
	3-6	The nonvolatile memory (EEPROM) on the indoor unit's control PC board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
	3-7	Is there a short, miswiring, disconnection, wrong contact or grounding in the remote control's wiring?	Yes	Correct the wiring
			No	Replace the indoor unit's control board.

- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

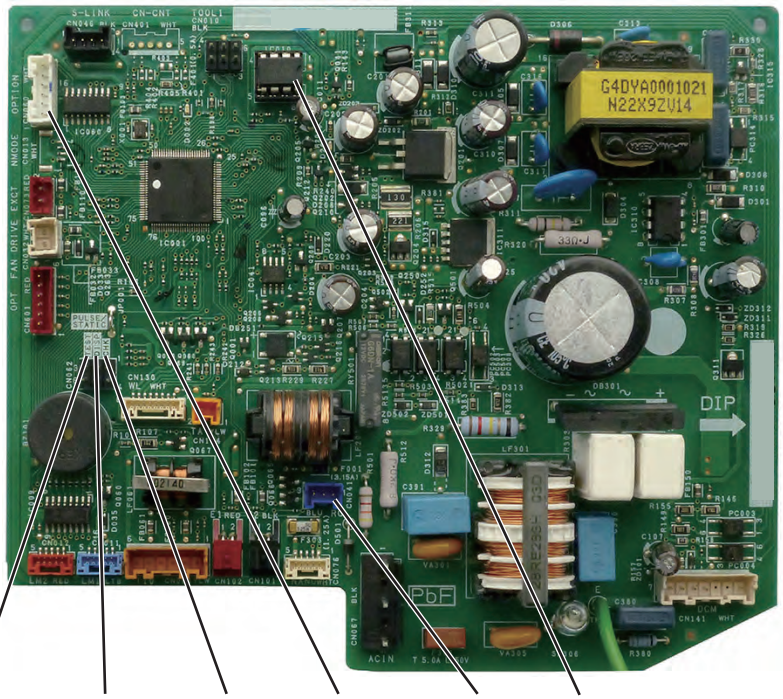
■ **ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board**



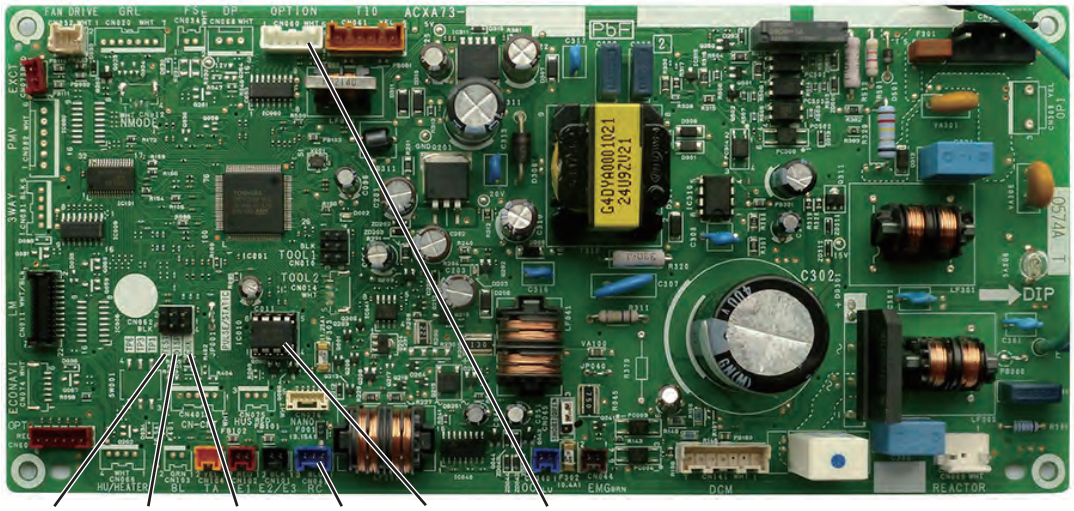
■ **ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board**



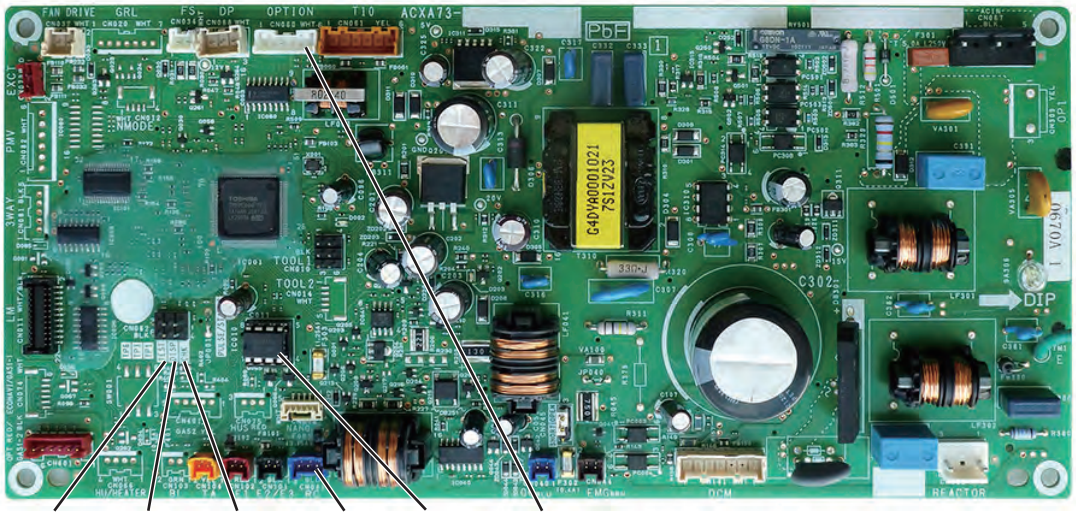
■ **ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board**



■ **ACXA73-3611* : Ceiling Type Indoor Unit Control Board**



■ **ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board**



E02 Remote Controller Transmission Error

1. Error Detection Method

When the remote controller itself cannot transmit. Or when it cannot receive the signal it transmitted itself, or when they are different and judged an error.

- Malfunction of the remote controller itself (transmit circuit error).

2. Error Diagnosis

1 Remote Control Group Wiring	1-1	Is the indoor unit under group control?	Yes	1-2
			No	2-1
	1-2	Are the wires 1 (white) & 2 (black) to the remote control group shorted or opened?	Yes	Correct the wiring
			No	2-1
2 Group Control Wiring	2-1	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	2-2
			No	2-4
	2-2	Disconnect the connector mentioned above on the board of the indoor unit control PC board, and see whether the E02 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	2-3
			No	2-4
	2-3	Replace wireless remote control parts including wiring.		
	2-4	Is there a short, miswiring, open, wrong contact or grounding in the remote control's wiring?	Yes	Correct the wiring
			No	Replace the indoor unit's control PC board

- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

E03 Error in Indoor Unit Receiving Signal from Remote Controller (central)

(When indoor unit(s) are connected)

1. Error Detection Method

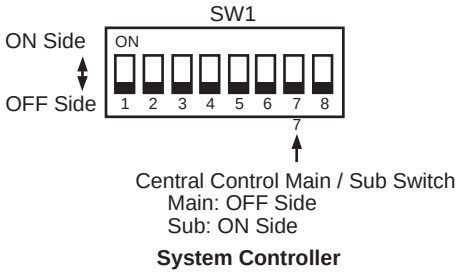
It is judged an error when there is no communication from any remote controller (collectively) in a 3-minute period or if there is no communication from the central device in a 15-minute period.

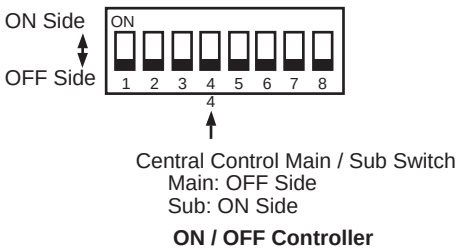
- When there was once communication, but during use the remote control wiring is opened or miswired.
- The line to the central control unit for indoor / outdoor operations is opened.
- Settings are made only for sub remote controller.
- The power to the central control unit is not on and remote controllers are not being used (or the inter-unit control wiring to the central control unit is opened).
- When remote controller are not being used, only the sub remote controller is set up.

2. Error Diagnosis

1 Central control unit	1-1	Is the central control unit connected?	Yes	1-2
			No	2-1
	1-2	Is the central control unit's powered off?	Yes	Power on
			No	1-3
	1-3	Are all the Main / Sub switches on the connected central control unit set to Sub?	Yes	1-4
			No	1-5
	1-4	Of the central control units that are connected, set only the uppermost central control unit to Main and the others to Sub. The order from top to bottom is communication adaptor → system controller → ON / OFF controller.		
	1-5	Is the inter-unit control wiring connected to the central control unit opened?	Yes	Correct the setting
			No	2-1
2 Remote controller	2-1	Is the indoor unit under group control?	Yes	2-2
			No	3-1
	2-2	Are the wires 1 (white) & 2 (black) to the remote control group opened, have wrong contact or grounded?	Yes	Correct the setting
			No	3-1
3 Indoor unit control PC board	3-1	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	3-2
			No	3-4
	3-2	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E03 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	3-3
			No	3-4
	3-3	Replace wireless remote control parts including wiring.		
	3-4	Is there a short, miswiring, open, wrong contact or grounding in the remote control's wiring?	Yes	Correct the wiring
			No	Replace the indoor unit control board

- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

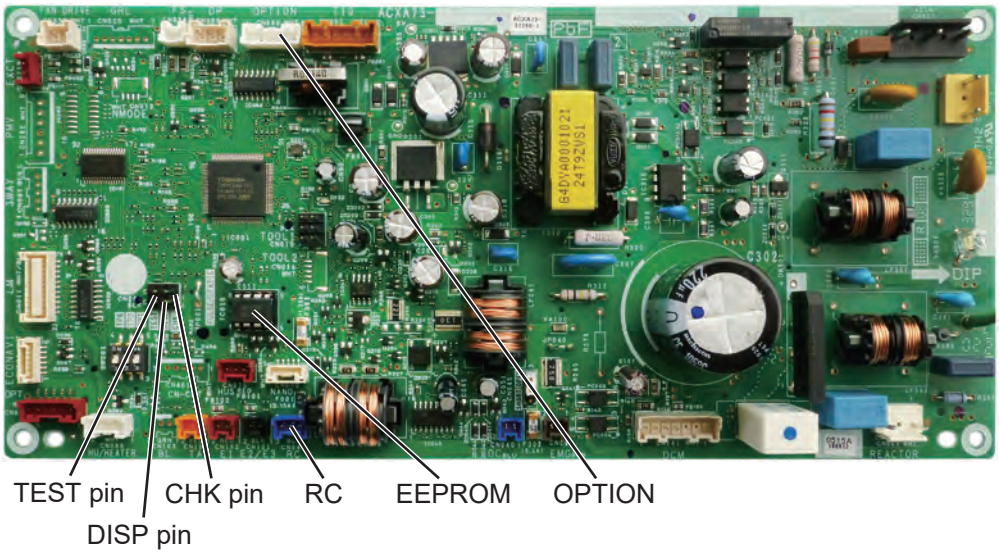




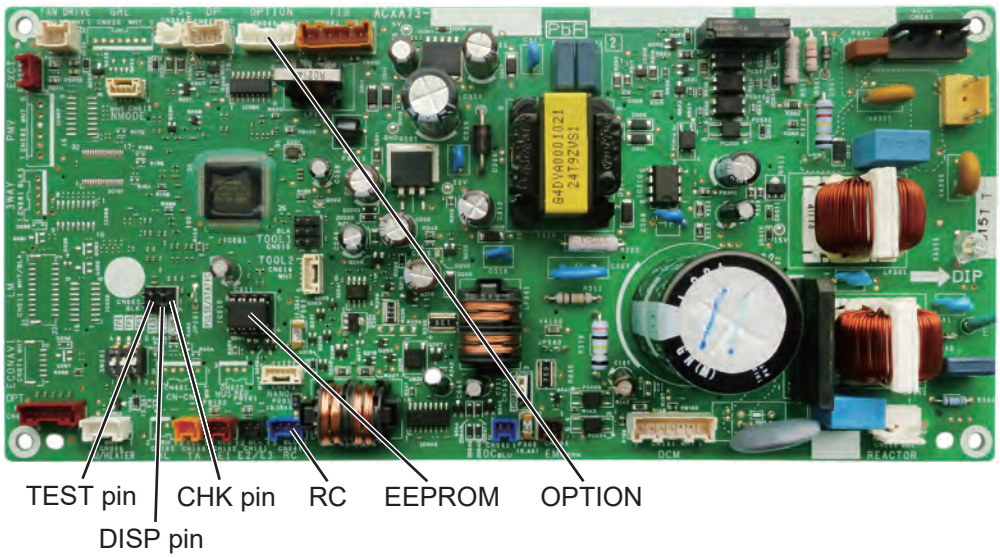
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.

  * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

■ **ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board**

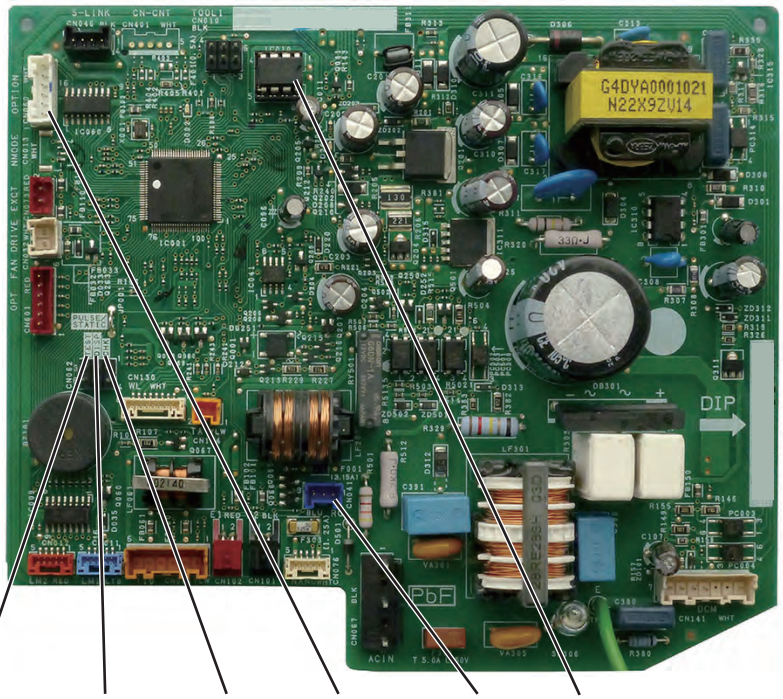


■ **ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board**

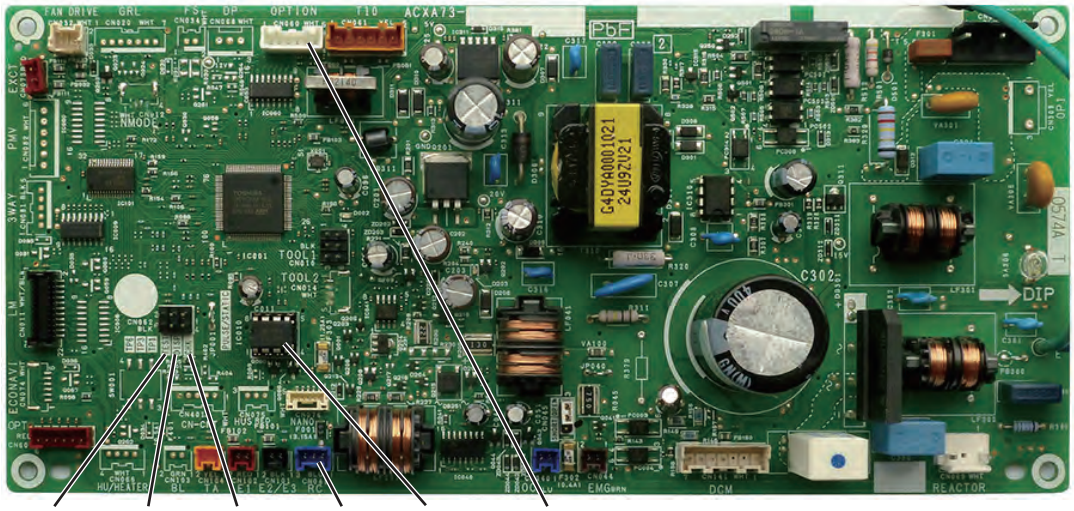


5

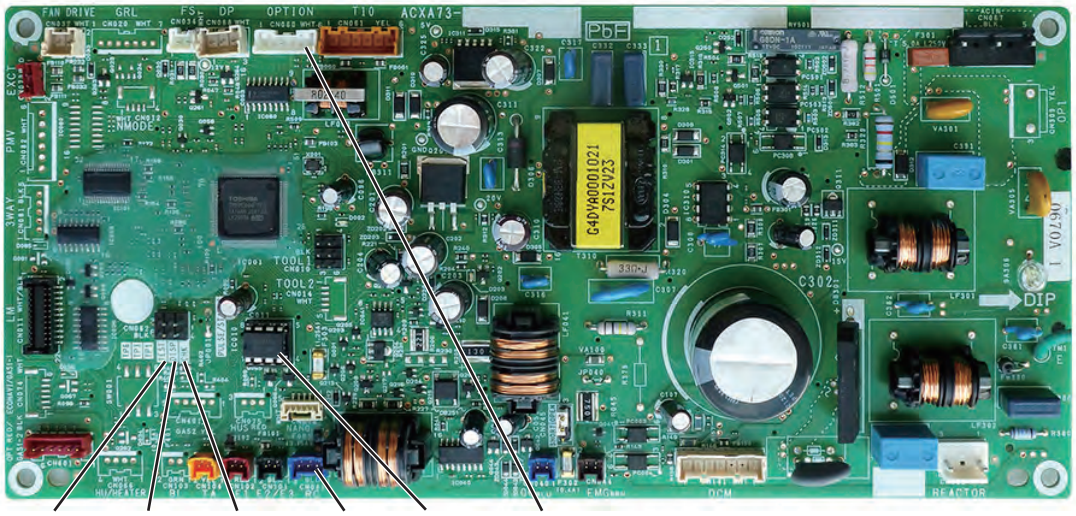
■ **ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board**



■ **ACXA73-3611* : Ceiling Type Indoor Unit Control Board**



■ **ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board**



E04 Error in Indoor Unit Receiving Signal from the Outdoor unit

1. Error Detection Method

When there is no communication within a 3-minute period from the outdoor unit. Or, judged an error when no reply comes from the outdoor unit.

- The outdoor unit is not turned on.
- When the power was turned on after auto address setting was completed, the number of indoor units had been changed.
- Forgot to turn on the indoor unit.
- The CHK pin and / or TEST pin on the indoor unit's control PC board are shorted.
- Forgot to install the nonvolatile memory (EEPROM) when replacing the indoor unit control PC board.
- Mistakenly set the indoor unit address to Not Set in the remote control's detailed setting mode.
- When indoor unit addresses are duplicated.
- There is a short, open, wrong contact or grounding of the indoor / outdoor control line*.
- There is an error in the receiving circuit on the signal output PC board (optional control PC board).
- Malfunctions of the outdoor unit
- The thermistor inside the indoor unit is grounded.
- The capacity setting is mismatched between indoor units and the outdoor unit.

2. Error Diagnosis

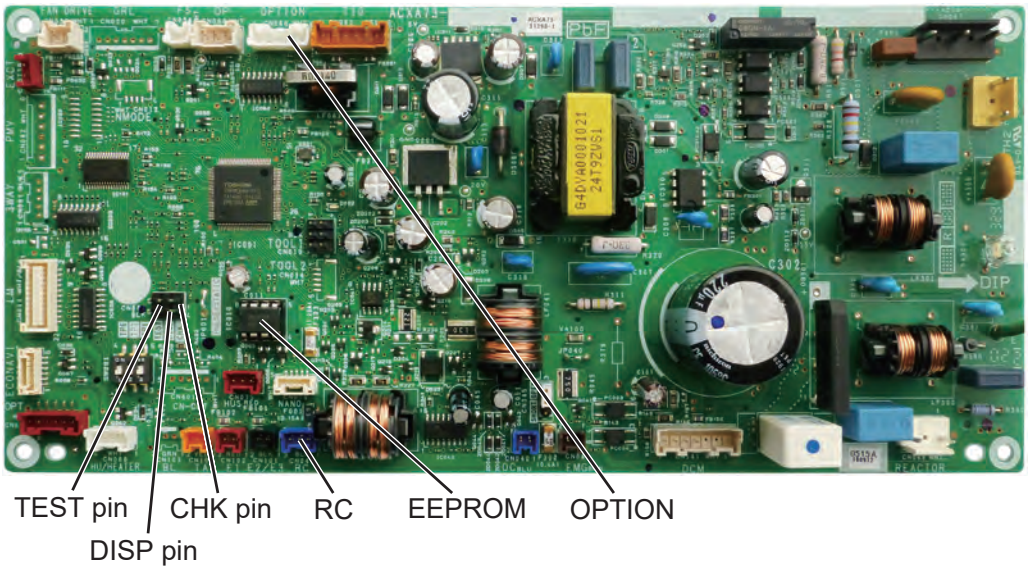
1 Power Source	1-1	Is / was the power to the outdoor unit cut off?	Yes	After turning the power on, wait three minutes
			No	1-2
	1-2	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor wiring connected correctly?	Yes	3-1
			No	Correct the wiring
3 Number and setting of indoor units	3-1	Was the number of indoor units increased or decreased after auto address setting was complete?	Yes	3-2
			No	3-3
	3-2	Conduct checks prior to auto address setting.		
	3-3	Check the indoor unit addresses from the remote control's detailed settings mode. Is it Not Set (99), or is the indoor unit's address duplicated?	Yes	3-2
			No	3-4
	3-4	Check the indoor unit capacity from the remote control's detailed settings mode. Does it match the capacity of outdoor unit?	Yes	4-1
			No	3-2
4 Indoor unit control PC board	4-1	Are the CHK pin and / or TEST pin on the indoor unit control PC board short-circuited?	Yes	Remove the short
			No	4-2
	4-2	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	4-3
			No	4-5
	4-3	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E04 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	4-4
			No	4-5
	4-4	Replace wireless remote control parts including wiring.		
	4-5	Is the LED on the indoor unit control PC board blinking?	Yes	4-6
			No	4-7
	4-6	The nonvolatile memory (EEPROM) on the indoor unit's control PC board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
	4-7	Are all the remote controllers of the other indoor units connected to that outdoor unit displaying E04?	Yes	Replace the outdoor unit control board
			No	Replace the indoor unit control board

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

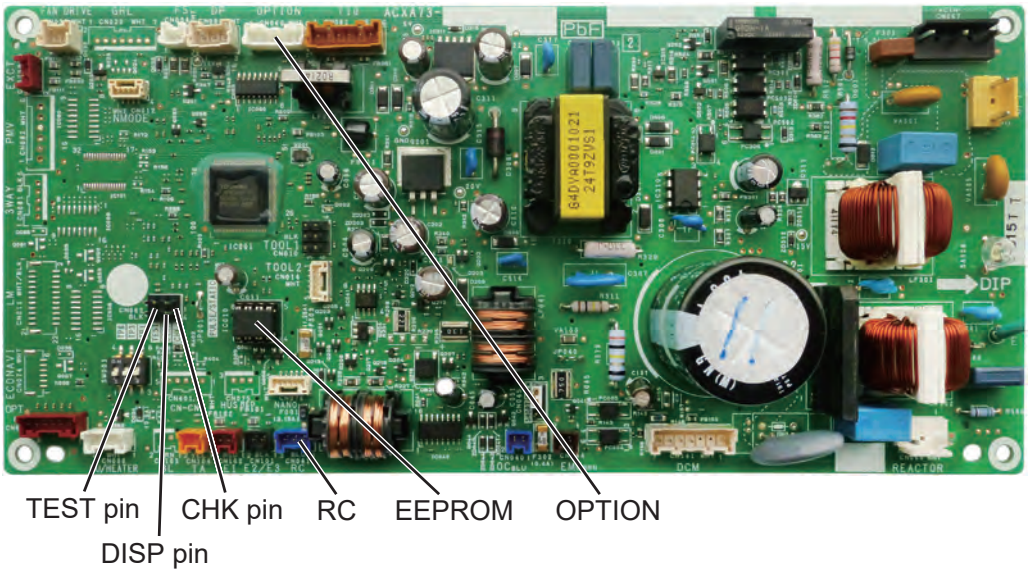
- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

Indoor Unit Control PCB

■ **ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board**

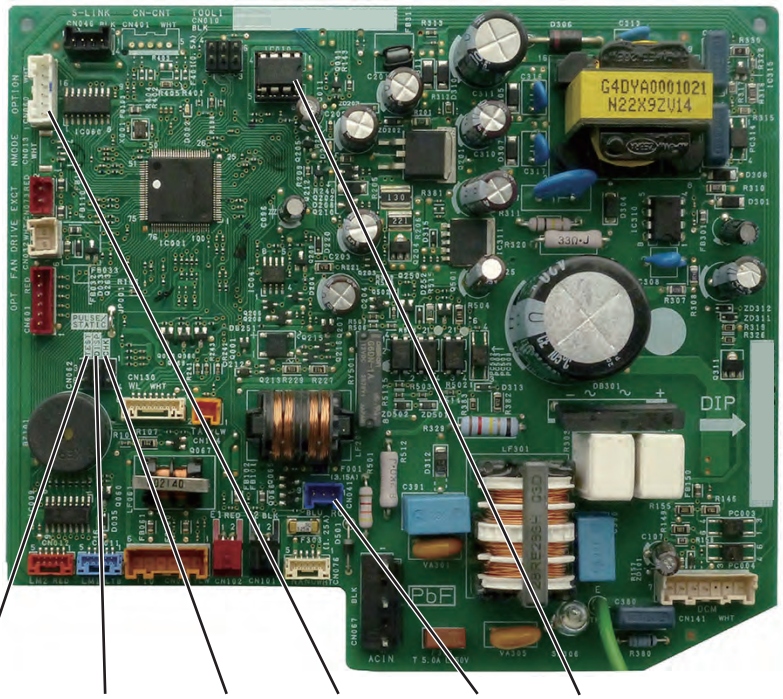


■ **ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board**



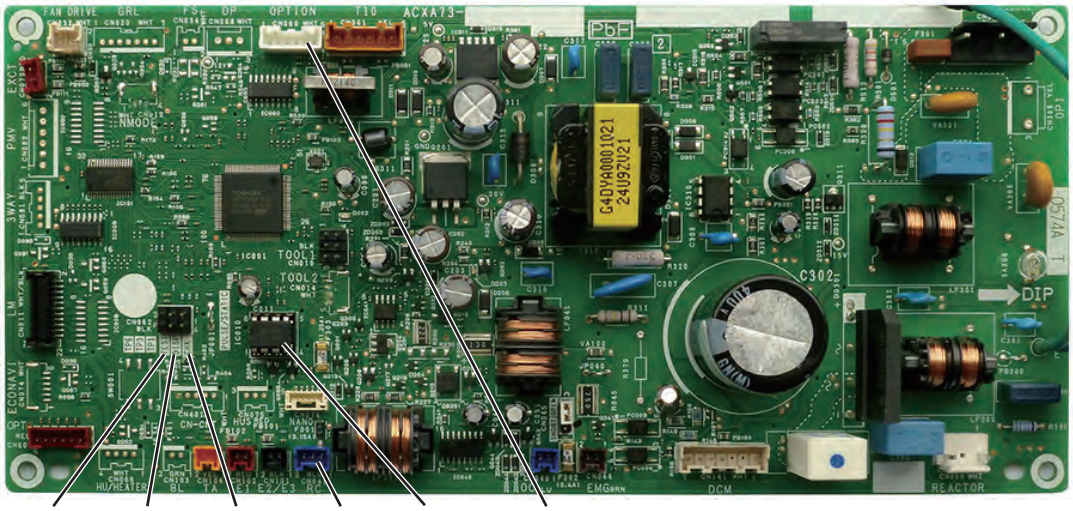
5

■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



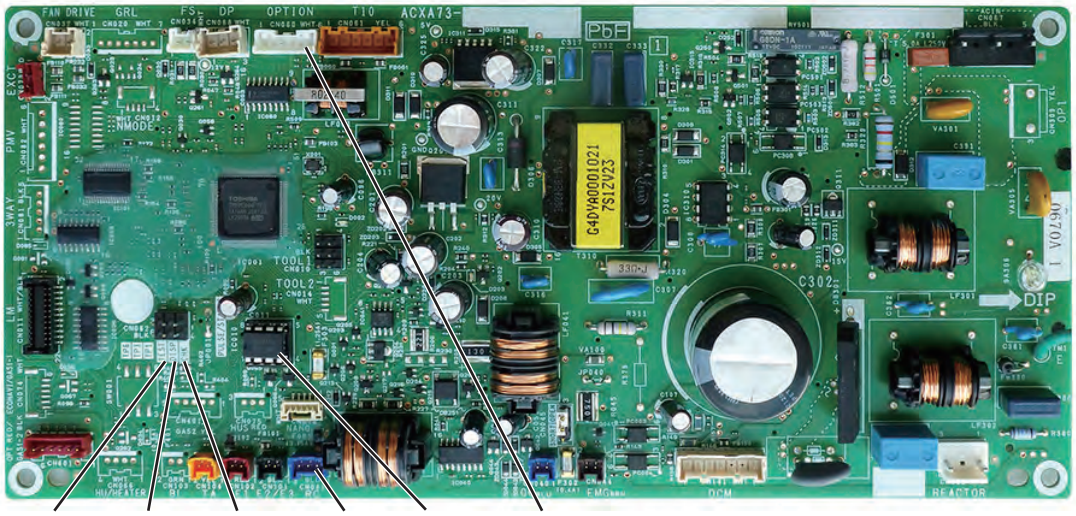
TEST pin DISP pin CHK pin OPTION RC EEPROM

■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION

■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



TEST pin DISP pin CHK pin RC EEPROM OPTION

E08 Duplicate Indoor Unit Address Settings Error

1. Error Detection Method

It is judged an error if the addresses of indoor units are duplicated.

- The indoor unit address settings are duplicated in the remote control detailed settings mode.
- The multiple unit DISP pin is shorted across the indoor unit whose address is Not Set.

2. Error Diagnosis

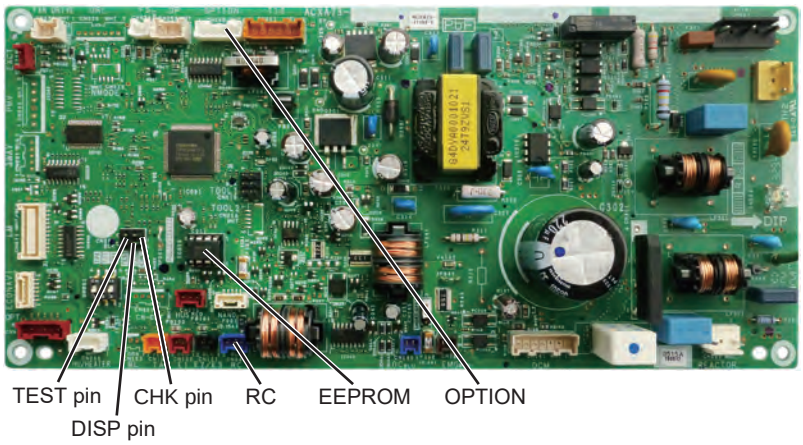
1 Indoor unit control PC board	1-1	Is the DISP pin on the indoor unit control PC board shorted?	Yes	Remove the short
			No	1-2
	1-2	Conduct checks prior to auto address setting. Does E08 fail to go off even after running auto address setting again?	Yes	1-3
			No	1-4
	1-3	The nonvolatile memory (EEPROM) on the indoor unit board has failed. ↓ Replace the EEPROM.		
	1-4	Do not make changes to indoor unit addresses with the detailed settings of the remote controller. Make them in the remote control address change mode.		

- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
  - For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
  - For information on the remote control's detailed settings, see 7-3 and 7-4.
  - The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.

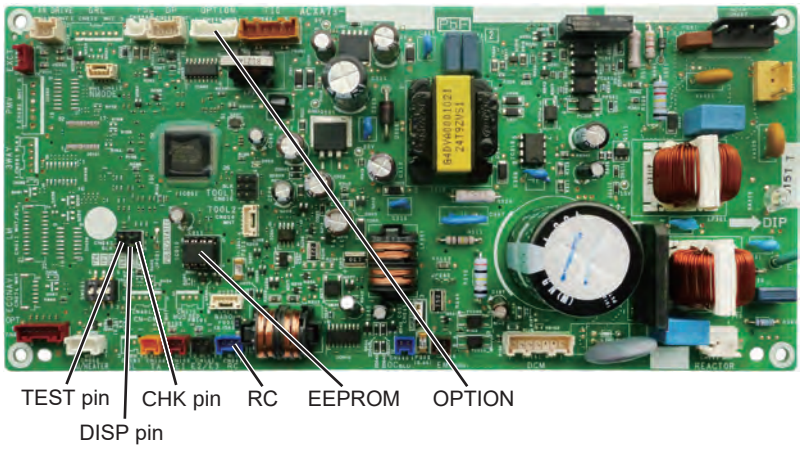
    * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

5

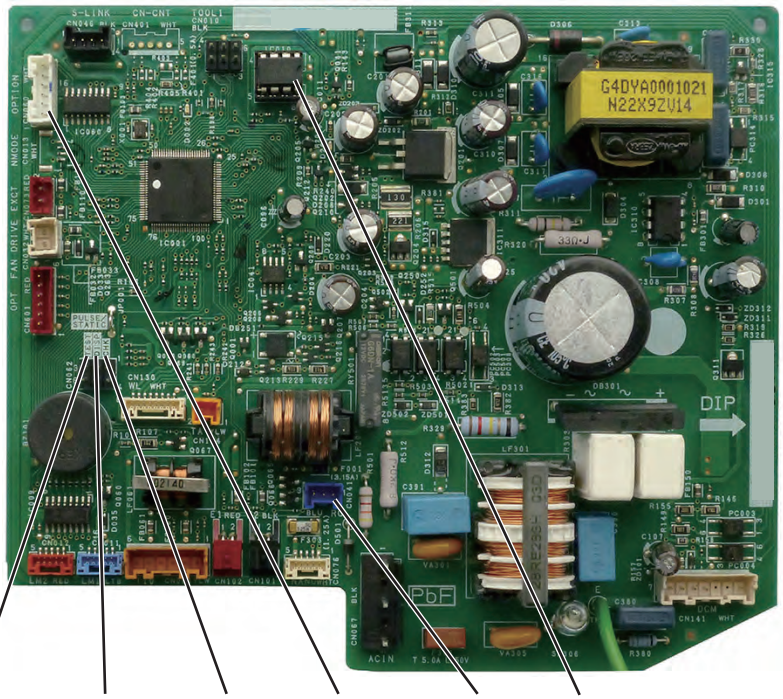
■ **ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board**



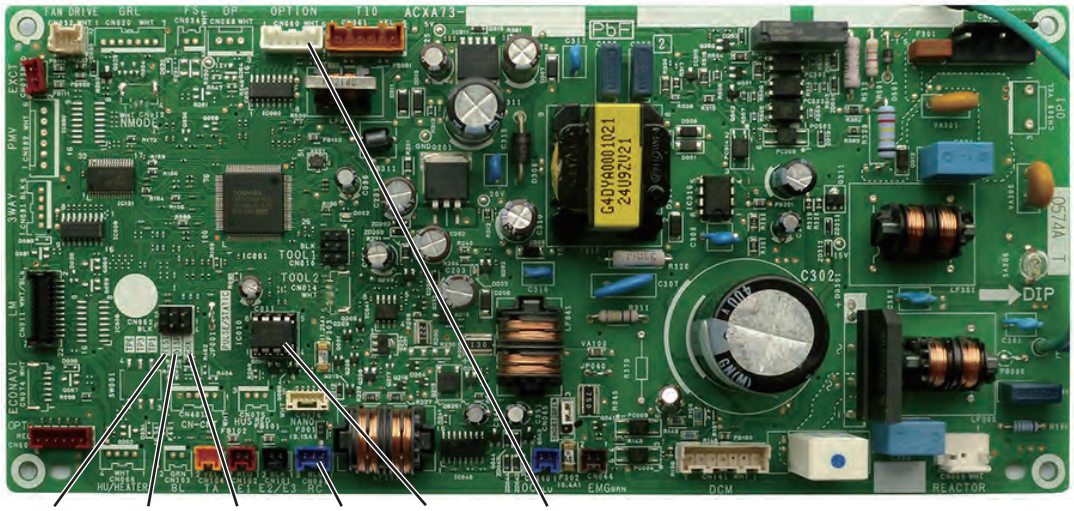
■ **ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board**



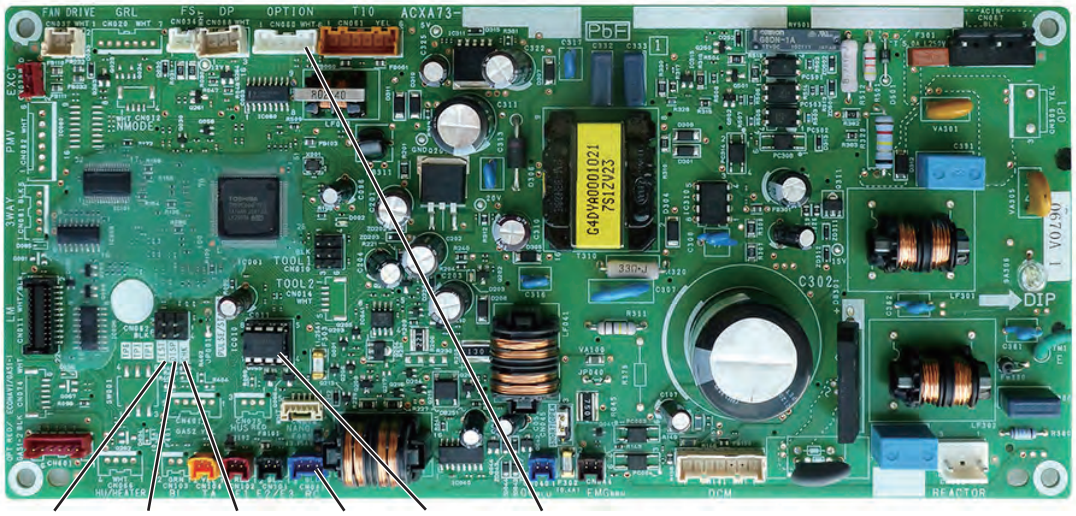
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



5

E09 More Than One Remote Controller Set to Main Error

1. Error Detection Method

It is judged an error when more than one remote controller in a remote control group is set as the main remote controller.

- Forgot to set one remote controller to sub in a 2-remote control group.
- When using one wireless and one wired remote controller in a control group, forgot to set one of them to sub.

2. Error Diagnosis

1 Remote controller	1-1	Set one of the 2 remote controllers to sub.

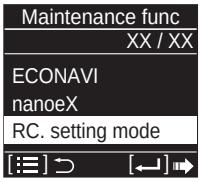
- Method for setting a remote controller to sub

<CZ-RTC6 series>

(1) Press and hold the ☰, ∧ and ↵ for 4 seconds or more simultaneously.

(2) Select “RC. setting mode”.

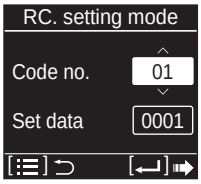
∨ ∧ → ↵

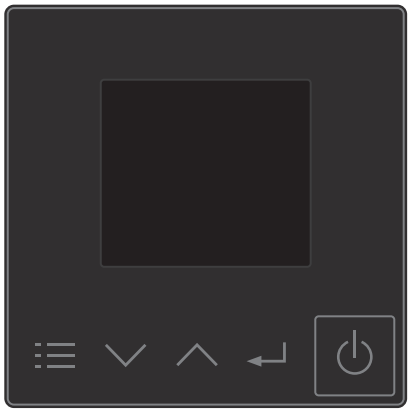


(3) Select the “Code no.” and “ Set data”.

∨ ∧ → ↵

(Repeat)





CZ-RTC6 series

Code no.	Item	Set data	
		0000	0001
01	Main/Sub	Sub	Main

(4) Press ☰ .

- After selecting “YES”, the unit restarts.

<CZ-RTC5B>

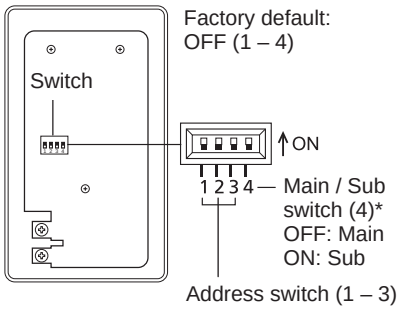
1. Press and hold ⮌ + ↵ + ► buttons for 4 seconds or more simultaneously.
2. Press ▼ / ▲ buttons to select the “3. RC. setting mode” and press the ↵ button.
3. The Code no. “01” and the Set data “0001” or the like on the remote controller’s display.
4. Press ▼ / ▲ buttons to select the Code no. to “01” and press the ► button.
5. Press ▼ / ▲ buttons to select the Set data to “0000” (0000: Sub 0001: Main) and press the ↵ button.
6. Press ⮌ button. After selecting [YES], the unit restarts.

<CZ-RTC4>

1. Press and hold Ⓐ☀❄☘ + SET buttons for several seconds simultaneously.
2. This will display SETTING, the CODE No. “01” and the SET DATA “0001” or the like on the remote controller’s display.
3. Press ▽ / △ buttons to select the CODE No. to “01”.
4. Press DAY / TIMER buttons to select the SET DATA to “0000”. (0000: Sub 0001: Main)
5. Press SET button (Once the display changes from flashing to steady, the setting is complete).
6. Once you press 🔦 button, the remote controller returns to its normal display.

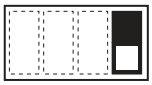
Wireless remote controller

CZ-RWRC3

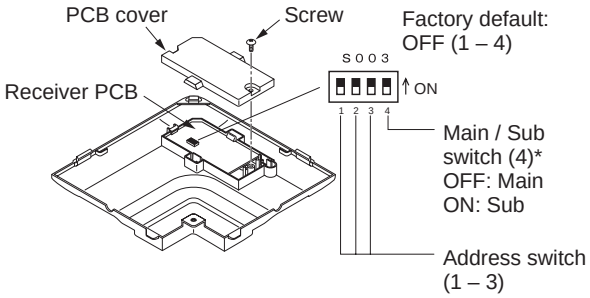


Main / Sub setting

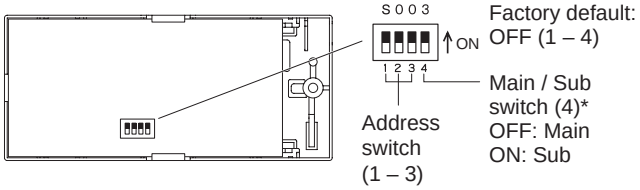
- **Use this to set Main / Sub for the remote controller and the receiver.**
- **Set one to [Main] and the other to [Sub].**
- **Factory default: [Main]**
- **It is recommended to set the wired remote controller to [Main].**

Main / Sub	MAIN	SUB
Main / Sub switch position	 1 2 3 4	 1 2 3 4

CZ-RWRU3, CZ-RWRU3W

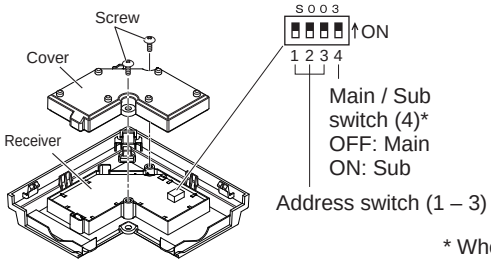


CZ-RWRT3



* When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].

CZ-RWRY3

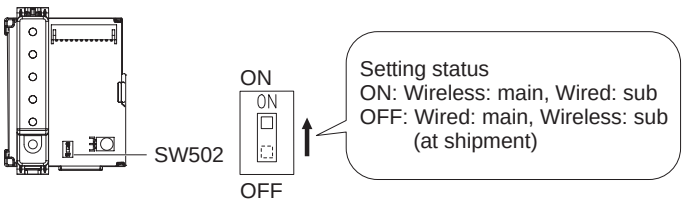


* When using the receiver and wired remote controller in combination, set the receiver to [Sub].

Wall Mounted Type

<When Using Wireless Remote Controller Instead of Wired Remote Controller>
When the wireless remote controller is to be used, slide the switch (SW502) to the ON position.

- If this setting is not made, an alarm will occur
  (The operation lamp on the display blinks.)
  See “8-3-2-1. <Optional parts setting and wiring>”.



5

E14 Main Unit duplication in Simultaneous-operation Multi Control (detected outdoor unit)

1. Error Detection Method

It is judged an error that the main units are duplicated in the indoor unit group.

- Main unit setting was made in the indoor unit group control setting of the remote control detailed settings mode.

2. Failure Diagnosis

1 Group Control Address	1-1	Are multiple indoor units set up as the main unit?	Yes	2-1
			No	2-2
2 Installation & Setting	2-1	Set up only one indoor unit as the main unit and other indoor units to the sub-unit.		
	2-2	Carry out the auto address setting.		

E15 Auto Address Alarm (The total capacity of indoor units is too low.)

1. Error Detection Method

Connecting indoor unit

It is judged an error the total capacity of indoor units replied by communication is lower than that of outdoor unit.

- The total capacity of indoor units is lower than that of outdoor unit.
- Some indoor unit(s) are connected but power is not turned on.
- The CHK pin (CN062 / CN071) and / or TEST pin (CN064) of the indoor unit is shorted when its power is turned on.

2. Error Diagnosis

1 Power Source	1-1	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor wiring connected correctly?	Yes	3-1
			No	Correct the wiring
3 Number of Indoor Units	3-1	Was the number of indoor units changed after auto address setting finished?	Yes	3-2
			No	4-1
	3-2	Conduct checks prior to auto address setting.		
4 Indoor unit control PC board	4-1	Be sure that the detailed setting items are made at factory setting. [U3, F3, K3, T3]	Yes	4-2
			No	Correct the setting Run the auto address
	4-2	Are the CHK pin and TEST pin on the indoor unit control board short-circuited?	Yes	Remove the short
			No	4-3
	4-3	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	4-4
			No	4-6
	4-4	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board and see whether the E15 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	4-5
			No	4-6
	4-5	Replace wireless remote control parts including wiring.		
	4-6	Is the LED blinking on the indoor unit's control PC board?	Yes	4-7
			No	5-1
	4-7	The nonvolatile memory (EEPROM) on the indoor unit's control board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
5 Outdoor unit control PC board	5-1	Check all items under the section "Check Prior to Auto Address Setting".		

- **Factory setting**

Item code	Item	Value
11	Indoor unit capacity	0
12	System address	99
13	Indoor unit address	99
14	Group control address	99

NOTE

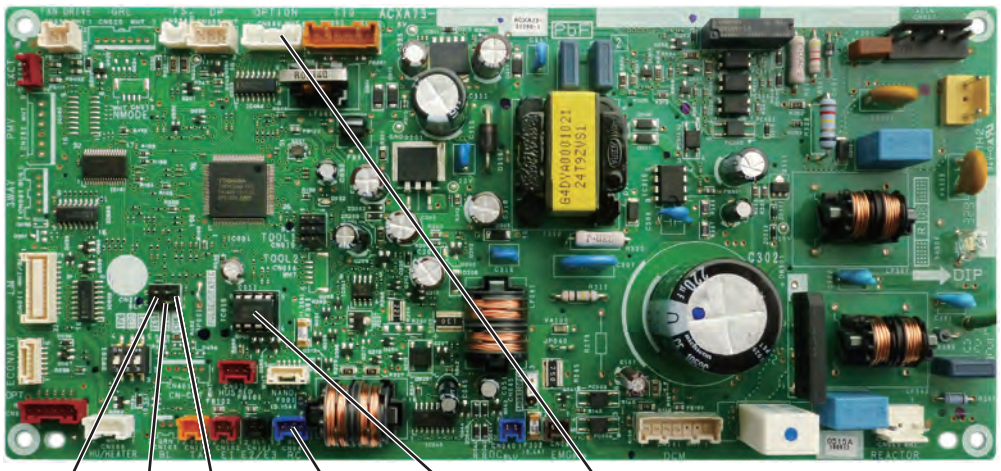
The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units.

If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings. It is necessary to set the auto address settings once again.

- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.

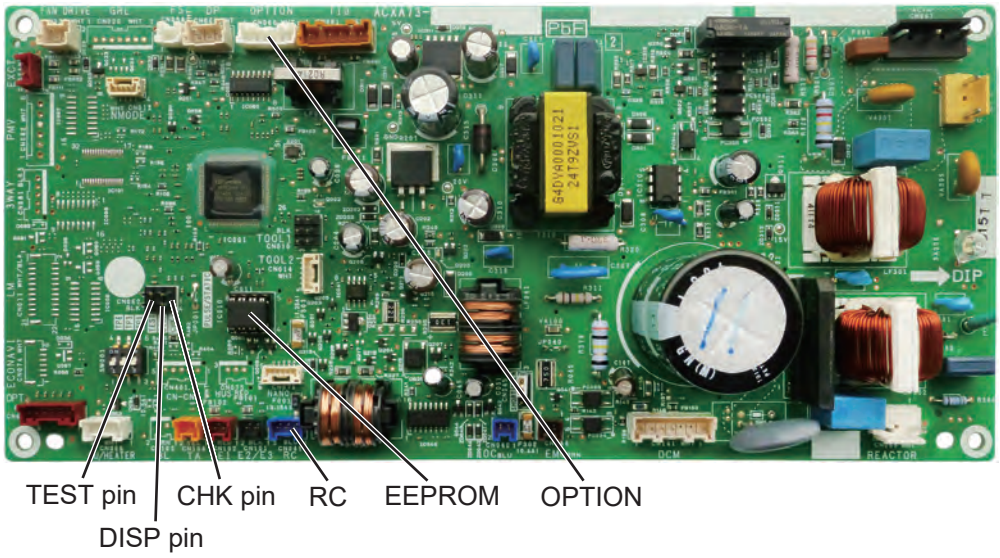
  * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

■ ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board

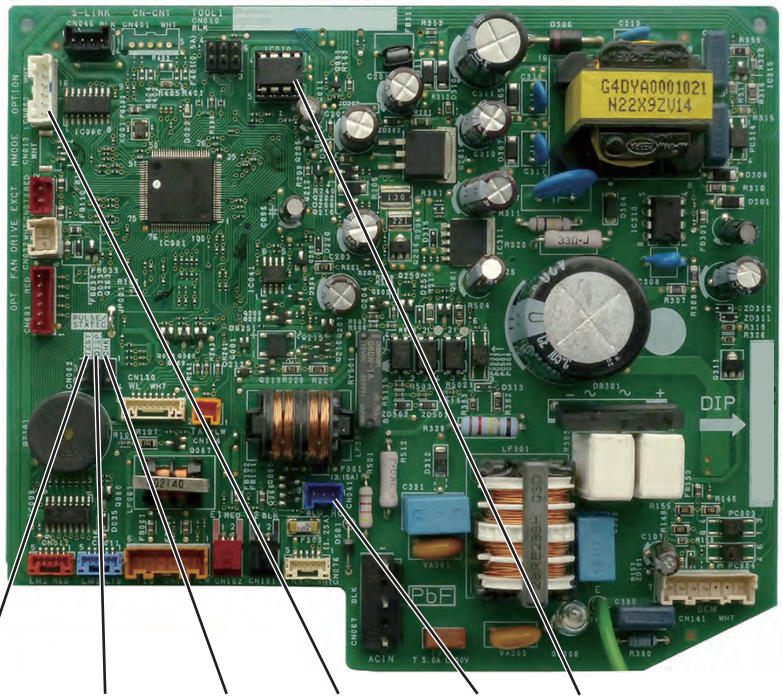


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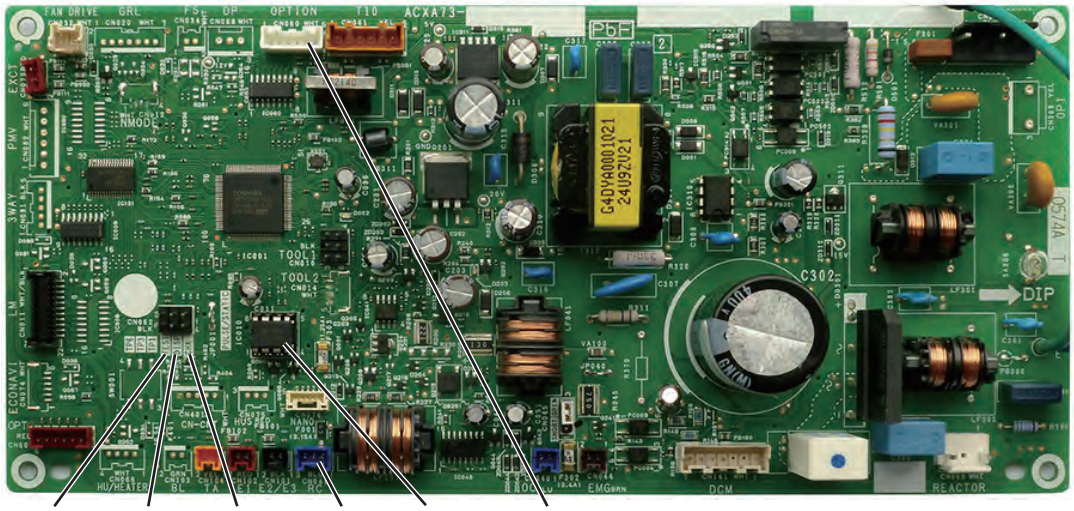
■ ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board



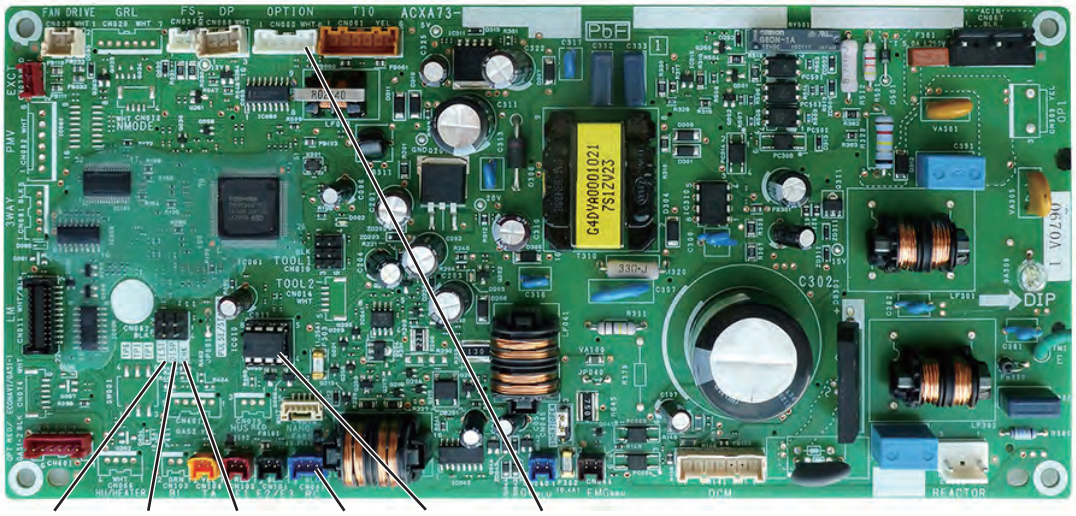
■ **ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board**



■ **ACXA73-3611* : Ceiling Type Indoor Unit Control Board**



■ **ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board**



5

E16 Auto Address Alarm (The total capacity of indoor units is too high.)

1. Error Detection Method

It is judged an error the total capacity of indoor units is too high or the total number of indoor units is too many.

- The total capacity of indoor units is too high.
- The total number of indoor units is too many.
- When making group control of the different refrigerant system, the steps to turn on the systems one at a time have not been performed.

2. Error Diagnosis

1 Auto Address	1-1	Conduct checks prior to auto address setting.

E18 Faulty Communication in Group Control Wiring

1. Error Detection Method

When the main remote controller cannot communicate with a sub remote controller in the remote control group.
It is judged an error if a sub remote controller in a remote control group fails to communicate with the main remote controller for a period of three minutes.

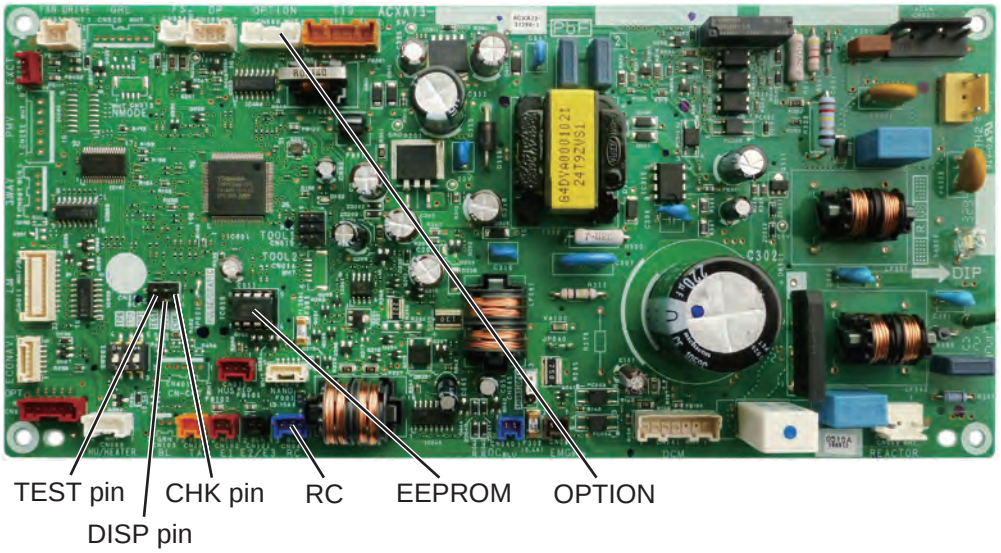
- An indoor unit within the control group does not have its power on.
- The CHK pin and TEXT pin on the indoor unit in the control group are shorted.
- The DISP pin of an indoor unit sub remote controller in the control group is shorted.
- Remote control group wiring is opened.
- More than one indoor unit in the control group is set to Main.
- An indoor unit in the control group is set to Separate.

2. Error Diagnosis

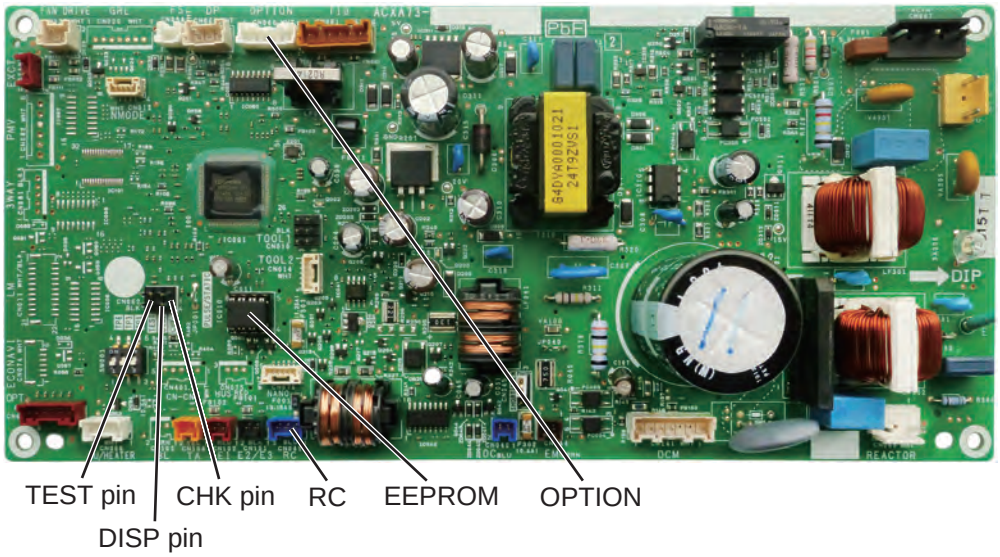
1 Indoor Unit	1-1	Is the indoor unit powered off?	Yes	Power on
			No	1-2
	1-2	Are the CHK pin, TEST pin and DISP pin on the indoor unit control PC board short-circuited?	Yes	Remove the short
			No	2-1
2 Substitute Sub Remote Controller	2-1	Is the remote control group's wiring opened?	Yes	Correct the wiring
			No	2-2
	2-2	Check the group settings (Item Code 14) from the remote control's detailed settings mode. Is the main remote controller (1) set to more than one remote controller or to separate (0)?	Yes	2-3
			No	3-1
	2-3	Is the wiring of the remote control group wired according to the wiring diagram?	Yes	2-4
			No	2-5
	2-4	Run the auto address setting again.		
	2-5	Run the auto address setting again after correcting the wiring of the remote control group.		
3 Indoor unit control PCB	3-1	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	3-2
			No	3-4
	3-2	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E18 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	3-3
			No	3-4
	3-3	Replace wireless remote control parts including wiring.		
	3-4	Replace the indoor unit control PC board.		

- For information on the remote control's detailed settings, see 7-3 and 7-4.
- For information on the procedures for replacing the Indoor unit control PCB, refer to the manual that is packaged with the indoor unit service board.

■ **ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board**

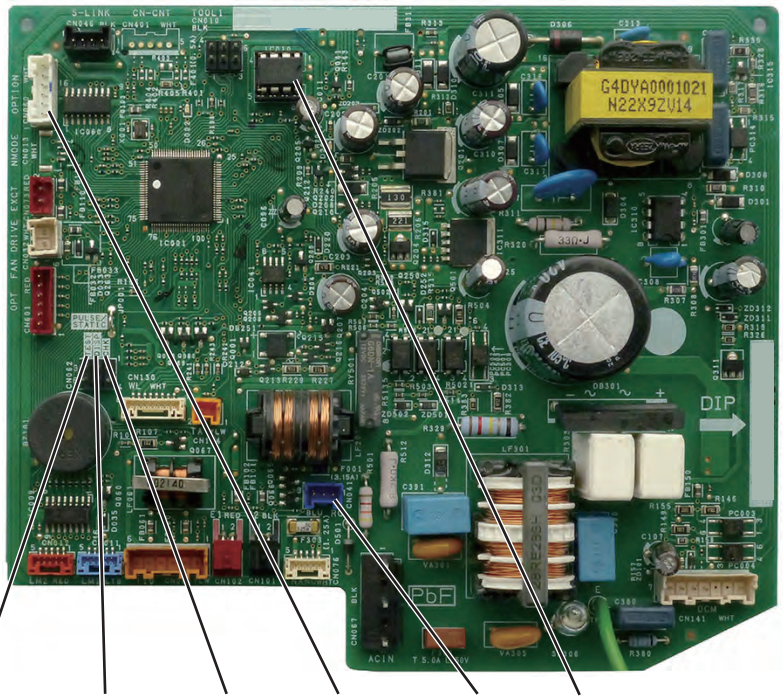


■ **ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board**

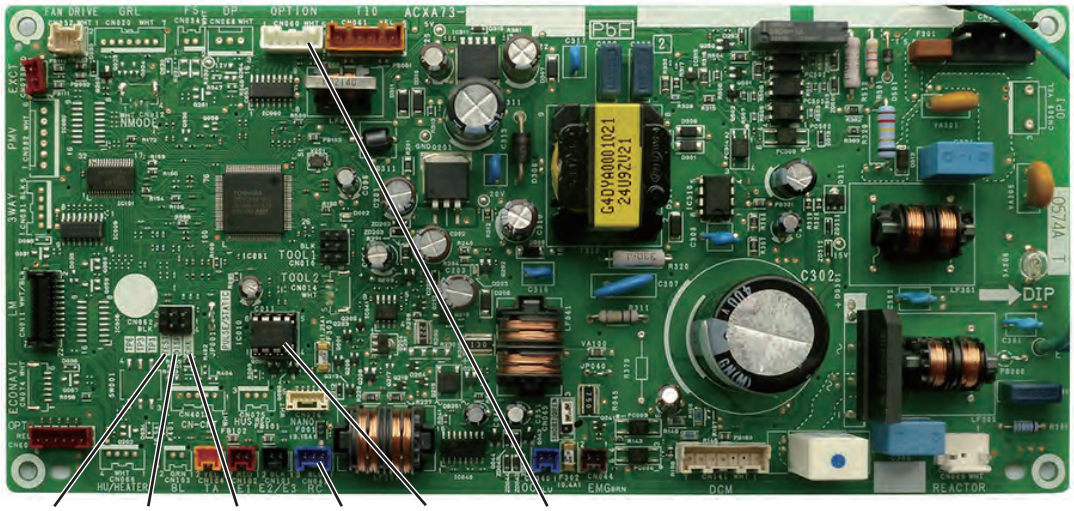


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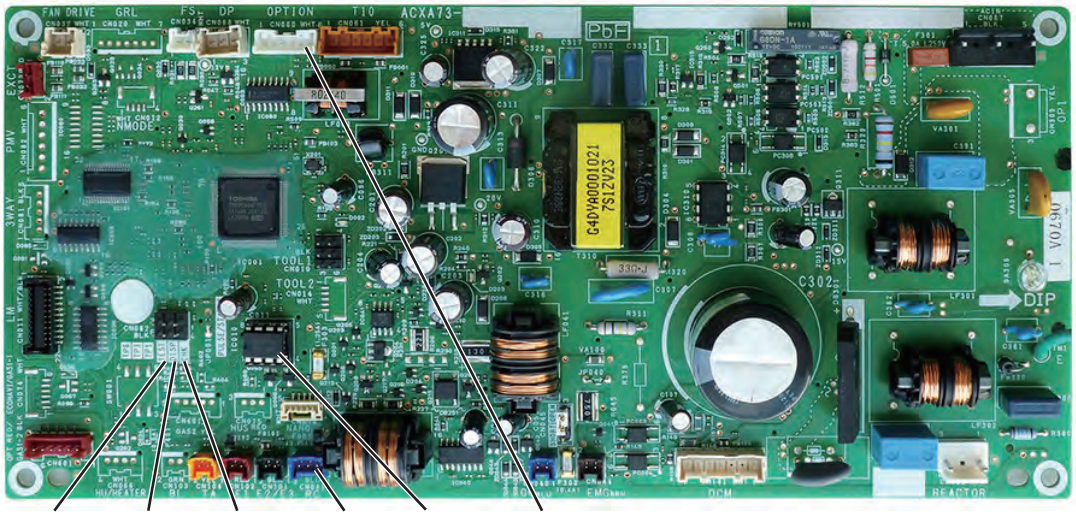
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board

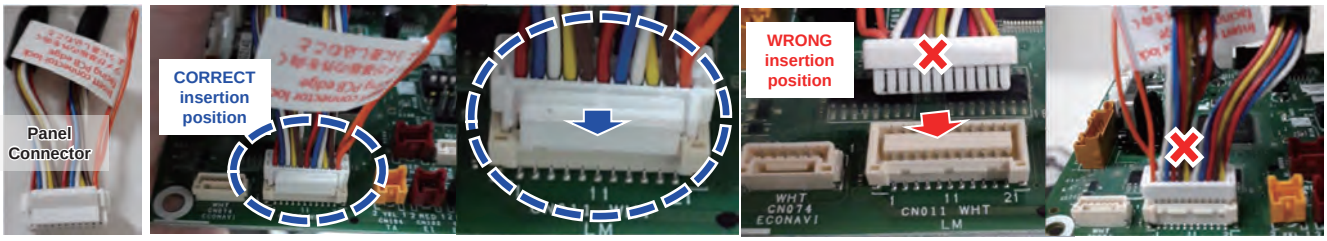


P09 Error description : Indoor unit ceiling cassette air swing motor do not operate

Error was judged as no connection between the ceiling cassette panel into Indoor PCB communication (feedback signal).

Possible Causes

1. Indoor unit ceiling cassette panel connector was not properly / wrongly connected into the PCB connector

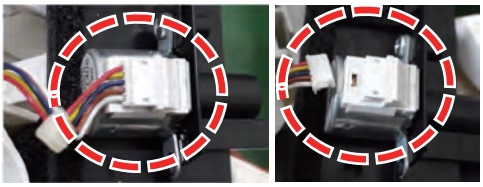


2. Air swing motor (inside the panel) was locked (jammed) or no operation

=> Check the air swing motor shaft can be rotate with hand

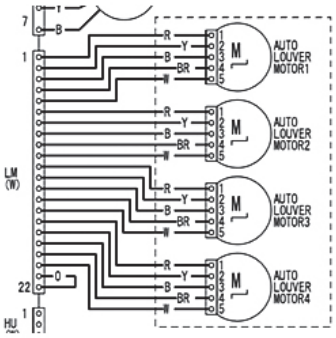
3. Air swing motor (inside the panel) wiring connector loosen or wire broken

=> Check the air swing motor wire connector connection



4. Indoor PCB for air swing control was malfunction

=> Check with multi meter at pin 1(red)-2, 1-3, 1-4 & 1-5 : 12Vdc
=> Check with multi meter at pin 6 (red)-7, 6-8, 6-9 & 6-10 : 12Vdc
=> Check with multi meter at pin 11 (red)-12, 11-13, 11-14 & 1 1-15 : 12Vdc
=> Check with multi meter at pin 16 (red)-17, 16-18, 16-19 & 1 6-20 : 12Vdc



5

P31 Group Control Error

1. Error Detection Method

- Other indoor unit alarms within the group.

1 Other indoor unit	1-1	Survey the indoor unit that alarms other than “P31” in the indoor unit group and specify the causes of failure.

5-2-2. Outdoor

5-2-2-1. U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

Alarms for outdoor units

Alarm Code	Alarm Meaning
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
F04	Compressor Discharge Temperature Sensor (TD) Trouble
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble
F08	Outdoor Air Temperature Sensor (TO) Trouble
H01	Primary (input) Overcurrent Detected
H02	PAM Trouble
H03	Primary Current CT Sensor (current sensor) Failure
L18	4-Way Valve Operation Failure
P03	Compressor Discharge Temperature Trouble
P04	High Pressure Trouble
P05	AC Power Supply Trouble
P07	HIC (IPM) Temperature Trouble
P13	Alarm Valve Open
P15	Insufficient Gas Level Detected
P16	Compressor Overcurrent Trouble
P22	Outdoor Unit Fan Motor Trouble
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure

Error Codes Table

Diagnosis display	Abnormality / Protection control	Abnormality Judgment	Protection Operation	Problem	Check location
E04	Indoor / outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor / outdoor communication not establish	● Indoor / outdoor wire terminal ● Indoor / outdoor PCB ● Indoor / outdoor connection wire
F04	Compressor temperature sensor abnormality	Continuous for 5s	—	Compressor temperature sensor open or short circuit	● Compressor temperature sensor lead wire and connector
F06	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	—	Outdoor heat exchanger temperature sensor 1 open or short circuit	● Outdoor heat exchanger temperature sensor 1 lead wire and connector
F08	Outdoor air temperature sensor abnormality	Continuous for 5s	—	Outdoor air temperature sensor open or short circuit	● Outdoor air temperature sensor lead wire and connector
H01	Indoor high pressure protection	—	—	Indoor high pressure protection (Heating)	● Check indoor heat exchanger ● Air filter dirty ● Air circulation short circuit
H02	Power factor correction (PFC) circuit protection	4 times happen within 20 minutes	—	Power factor correction circuit abnormal	● Outdoor PCB faulty
H03	Outdoor current transformer (CT) abnormality	—	—	Current transformer faulty or compressor faulty	● Outdoor PCB faulty or compressor faulty
L18	4-way valve switching abnormality	4 times happen within 30 minutes	—	4-way valve switching abnormal	● 4-way valve ● Lead wire and connector
P03	Compressor overheating protection	4 times happen within 20 minutes	—	Compressor overheat	● Insufficient refrigerant
P04	Outdoor cooling high pressure protection	4 times happen within 20 minutes	—	Cooling high pressure protection	● Check refrigeration system ● Outdoor air circuit
P05	Indoor / outdoor misconnection abnormality	—	—	Indoor and outdoor rated voltage different	● Indoor and outdoor units check
P07	Power transistor module overheating protection	4 times happen within 30 minutes	—	Power transistor module overheat	● PCB faulty ● Outdoor air circuit (fan motor)
P15	Refrigeration cycle abnormality	2 times happen within 20 minutes	—	Refrigeration cycle abnormal	● Insufficient refrigerant or valve close
P16	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	—	Power transistor module current protection	● Power transistor module faulty or compressor lock
P22	Outdoor fan motor mechanism lock	2 times happen within 20 minutes	—	Outdoor fan motor lock or feedback abnormal	● Outdoor fan motor lead wire and connector ● Fan motor lock or block
P29	Compressor abnormal revolution	4 times happen within 20 minutes	—	Compressor abnormal revolution	● Power transistor module faulty or compressor lock

E04 Indoor / Outdoor Abnormal Communication

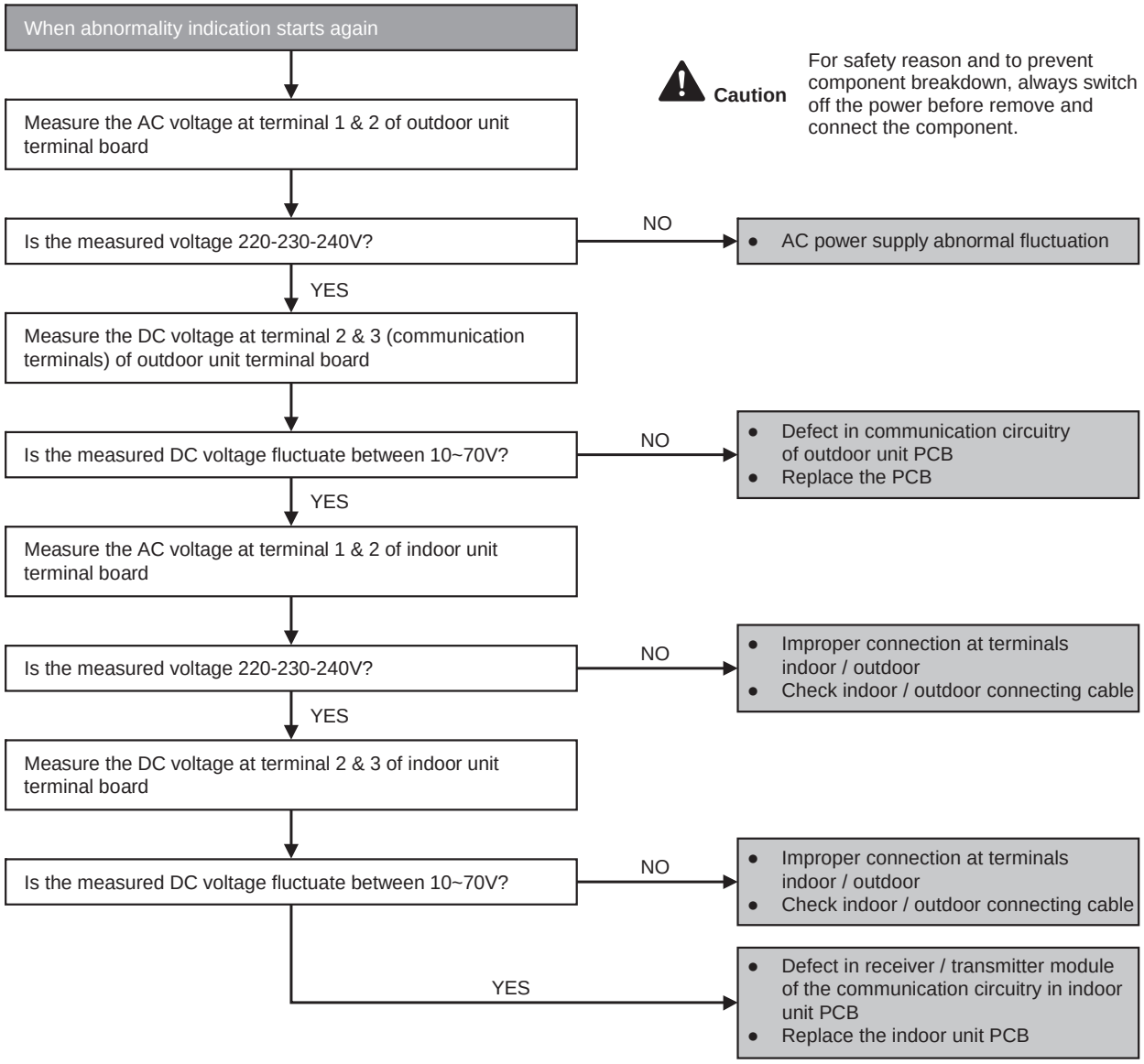
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the data received from outdoor unit in indoor unit signal transmission is checked whether it is normal.

Malfunction Caused

- Faulty indoor unit PCB.
- Faulty outdoor unit PCB.
- Indoor unit-outdoor unit signal transmission error due to wiring error.
- Indoor unit-outdoor unit signal transmission error due to breaking of wire in the connection wires between the indoor and outdoor units.

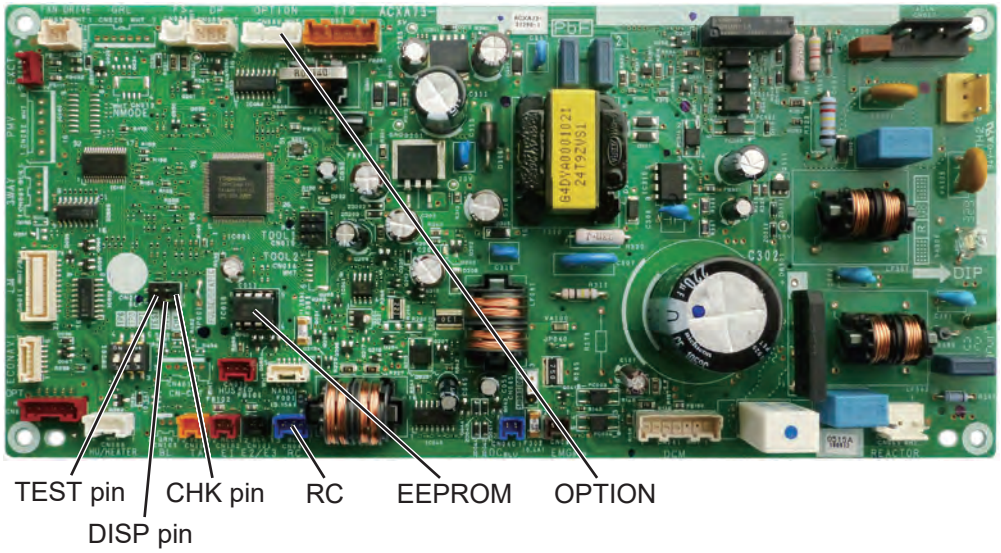
Troubleshooting



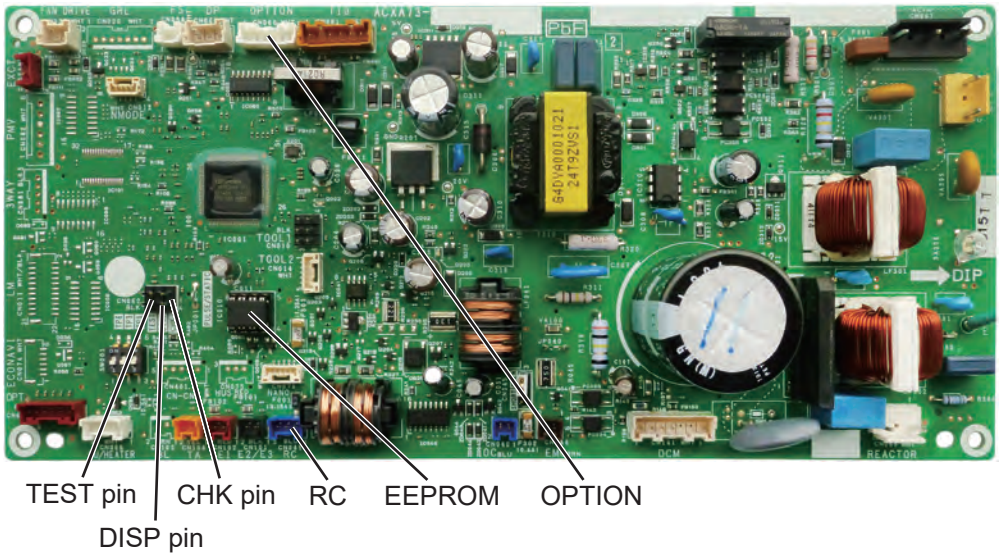
- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

Indoor Unit Control PCB

■ **ACXA73-3129* : 4-Way Cassette Type Indoor Unit Control Board**

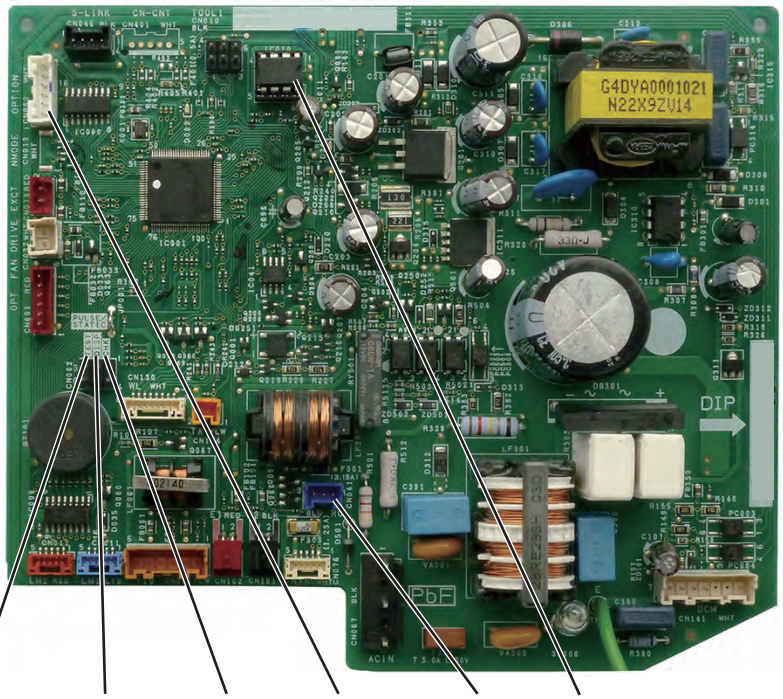


■ **ACXA73-3440* : Middle Static Pressure Duct Type Indoor Unit Control Board**

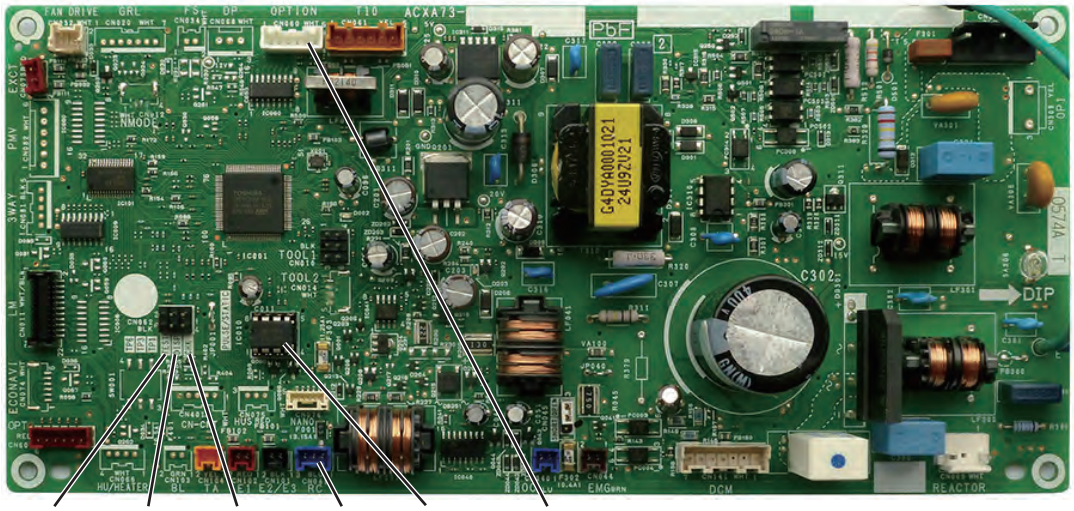


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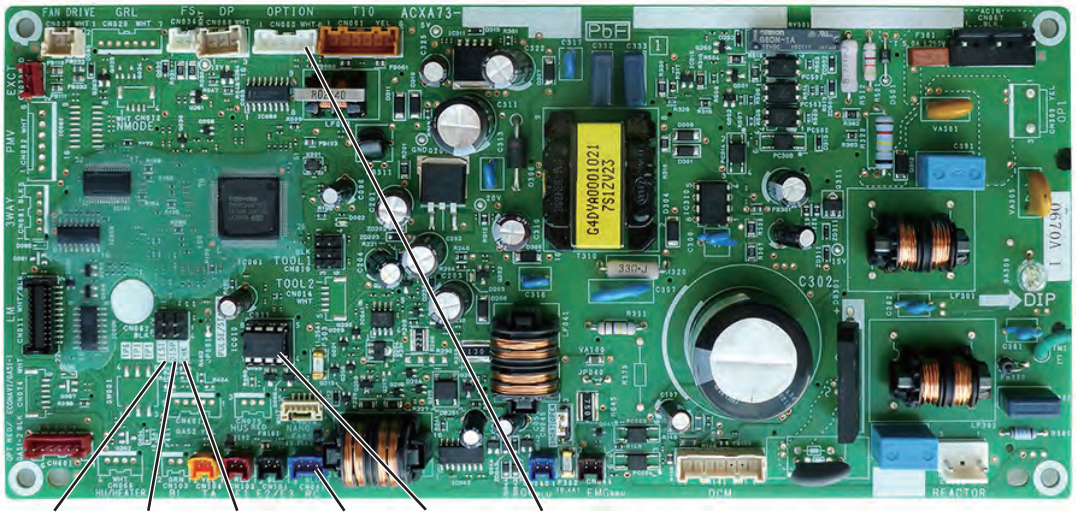
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



F04 Compressor Temperature Sensor Abnormality

Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor compressor temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting

When abnormality indication starts again

Check the connector connection:
- Turn off the power
- Check the connector connection

Caution For safety reason and to prevent component breakdown, always switch off the power before remove and connect the component.

Is the connector connection normal?

NO
- Connector poor contact
- Correct the connection

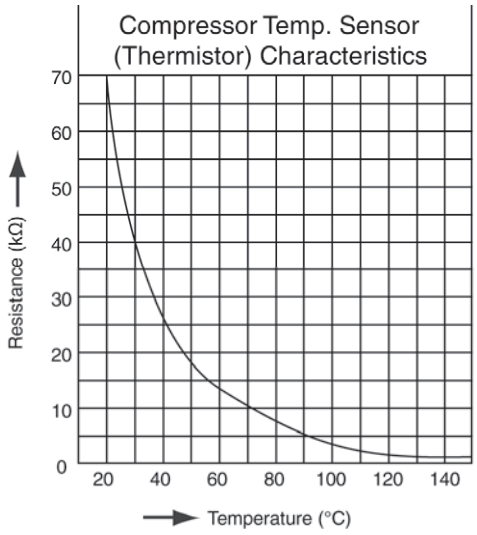
YES

Check the outdoor compressor temperature sensor:
- Plug out connector from the outdoor unit PCB
- Measure the resistance of the outdoor compressor temperature sensor

Is the measured resistance of the outdoor compressor temperature sensor matches the value specified in its characteristic chart?

NO
- Defect in outdoor compressor temperature sensor
- Replace the outdoor compressor temperature sensor

YES
- Defect in outdoor unit PCB
- Replace the outdoor unit PCB



F06 Outdoor Pipe Temperature Sensor Abnormality

Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor pipe temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting

When abnormality indication starts again

Check the connector connection:
- Turn off the power
- Check the connector connection

Caution For safety reason and to prevent component breakdown, always switch off the power before remove and connect the component.

Is the connector connection normal?

No
- Connector poor contact
- Correct the connection

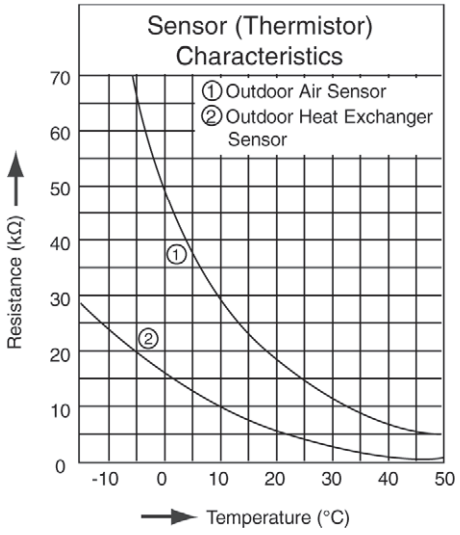
YES

Check the outdoor heat exchanger temperature sensor:
- Plug out connector from the outdoor unit PCB
- Measure the resistance of the outdoor heat exchanger temperature sensor

Is the measured resistance of the outdoor heat exchanger temperature sensor matches the value specified in its characteristic chart?

No
- Defect in outdoor heat exchanger temperature sensor
- Replace the outdoor heat exchanger temperature sensor

YES
- Defect in outdoor unit PCB
- Replace the outdoor unit PCB



F08 Outdoor Air Temperature Sensor Abnormality

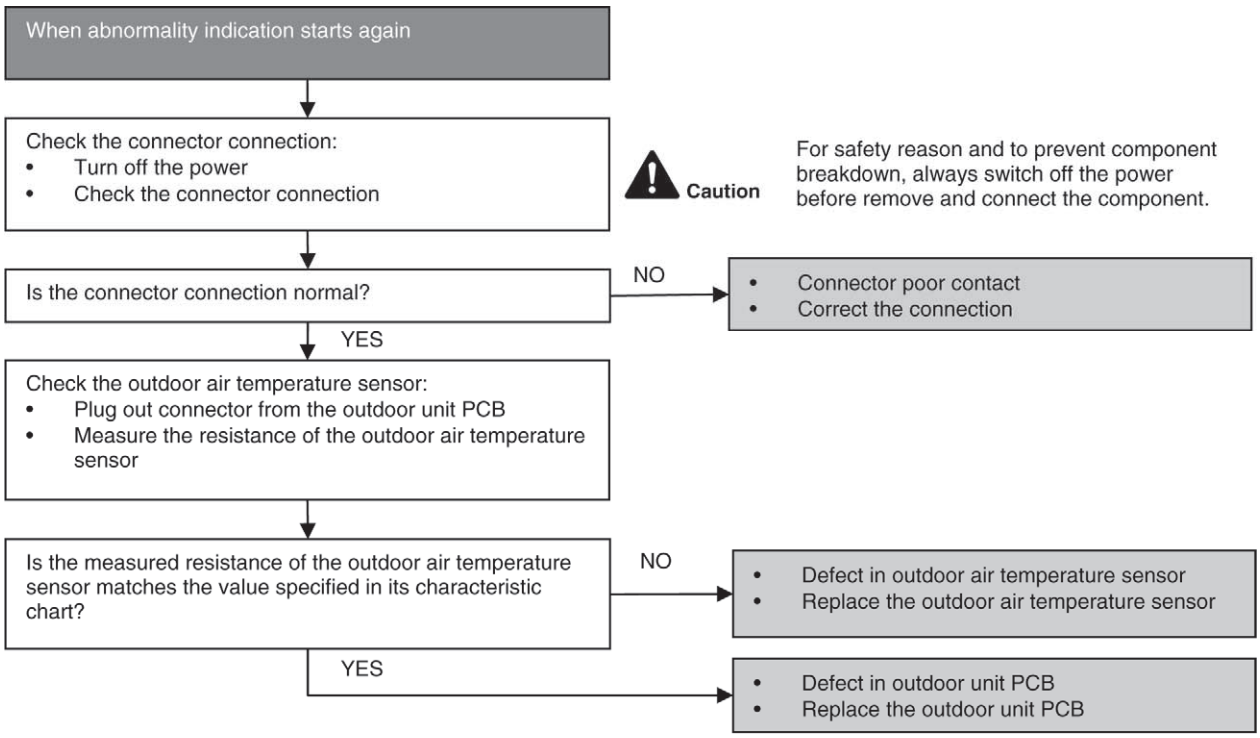
Malfunction Decision Conditions

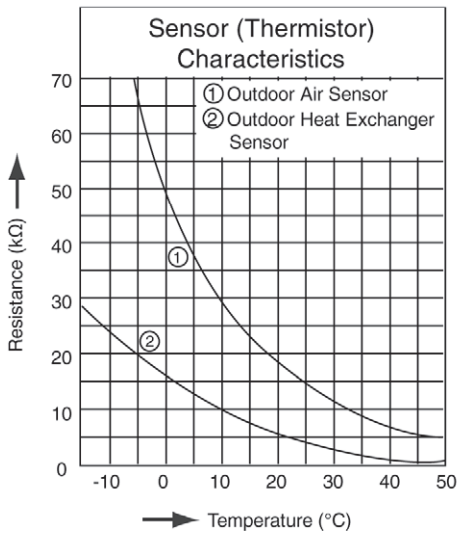
- During startup and operation of cooling and heating, the temperatures detected by the outdoor air temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting





H01 Error Code Stored in Memory and no alarm is triggered / no TIMER LED flashing

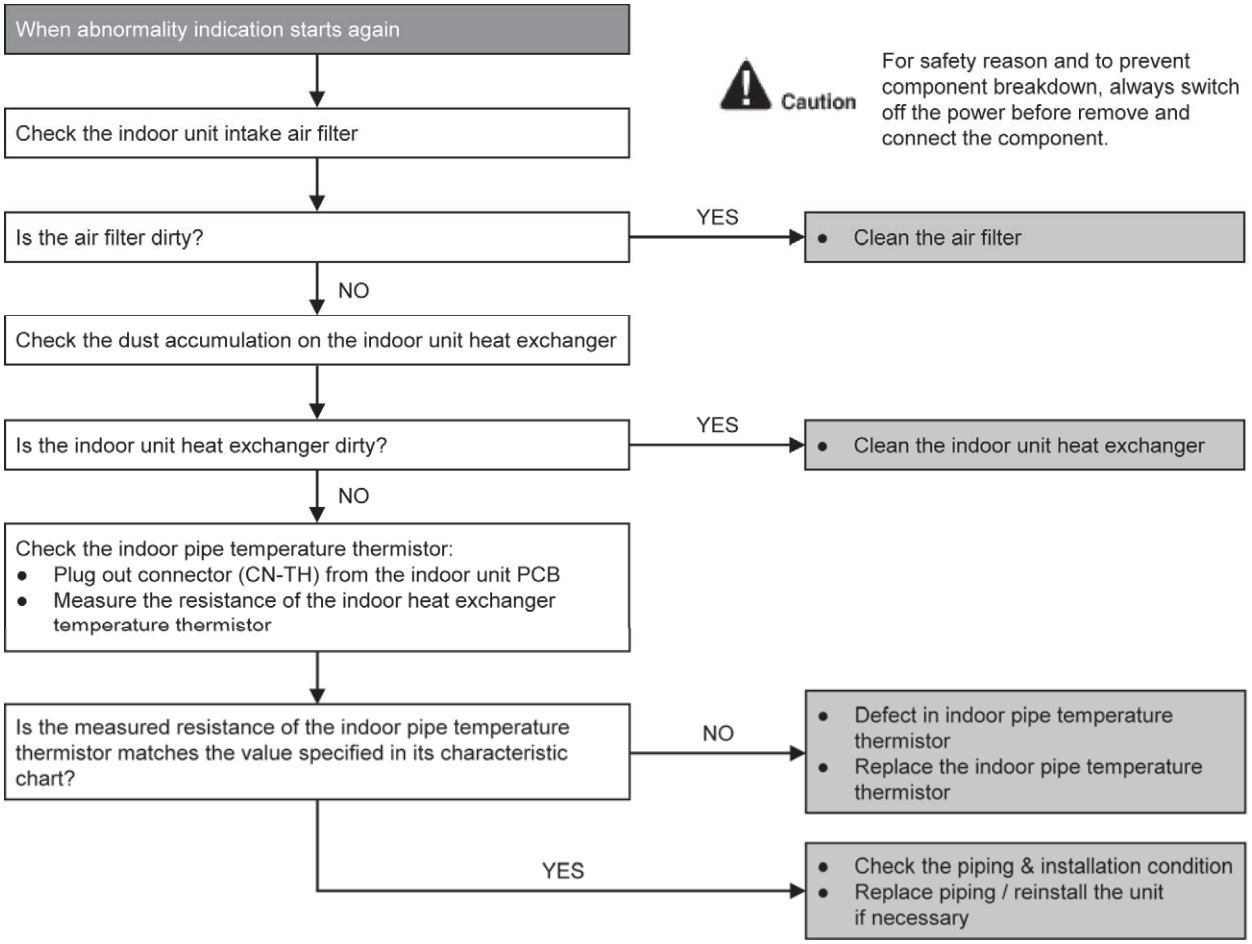
Malfunction Decision Conditions

- Indoor high pressure is detected when indoor heat exchanger is detecting very high temperature when the unit is operating in heating operation.
- Phenomena: unit is stopping and re-starting very often in heating mode

Malfunction Caused

- Indoor heat exchanger thermistor
- Clogged air filter or heat exchanger
- Over-bent pipe (liquid side)

Troubleshooting



5

H02 Power Factor Correction Protection

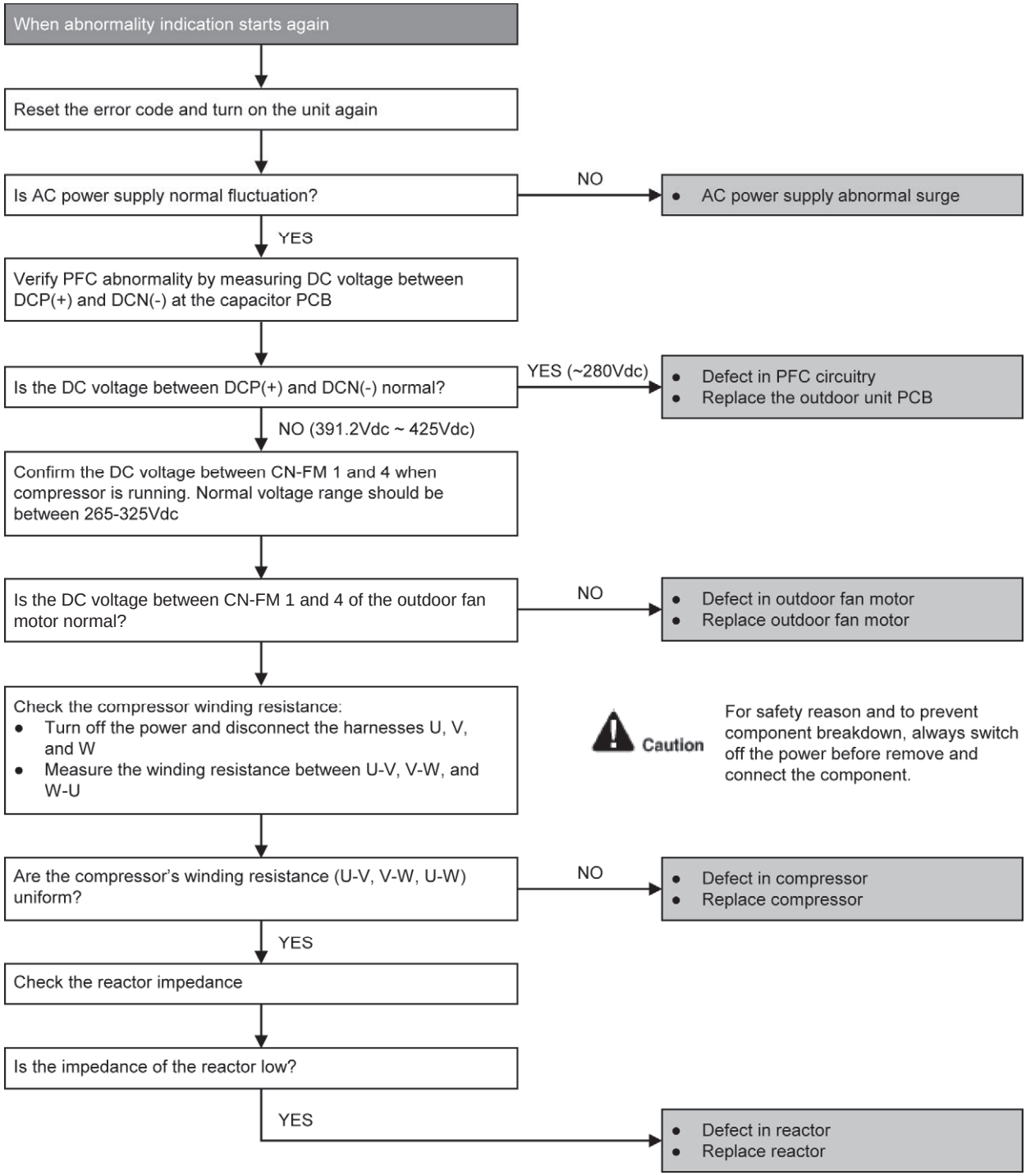
Malfunction Decision Conditions

- To maintain DC voltage level supply to power transistor.
- To detect high DC voltage level after rectification.

Malfunction Caused

- During startup and operation of cooling and heating, when Power Factor Correction (PFC) protection circuitry at the outdoor unit main PCB senses abnormal DC voltage level for power transistors.
- When DC voltage detected is LOW, transistor switching will turn ON by controller to push-up the DC level.
- When DC voltage detected is HIGH (391Vdc – 425Vdc), active LOW signal will send by the controller to turn OFF relay RY-C.

Troubleshooting



H03 Outdoor Current Transformer

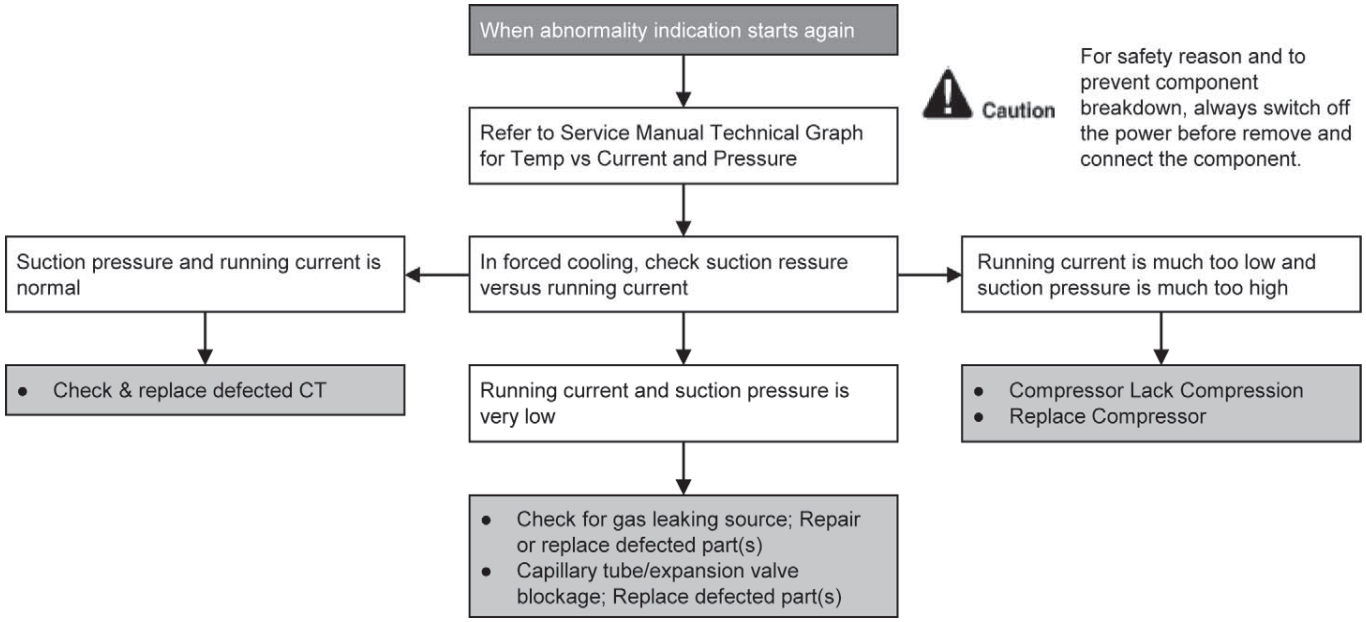
Malfunction Decision Conditions

- An input current, detected by Current Transformer CT, is below threshold value when the compressor is operating at certain frequency value for 3 minutes.

Malfunction Caused

- Lack of gas
- Broken CT (current transformer)
- Broken Outdoor PCB

Troubleshooting



L18 4-way Valve Switching Failure

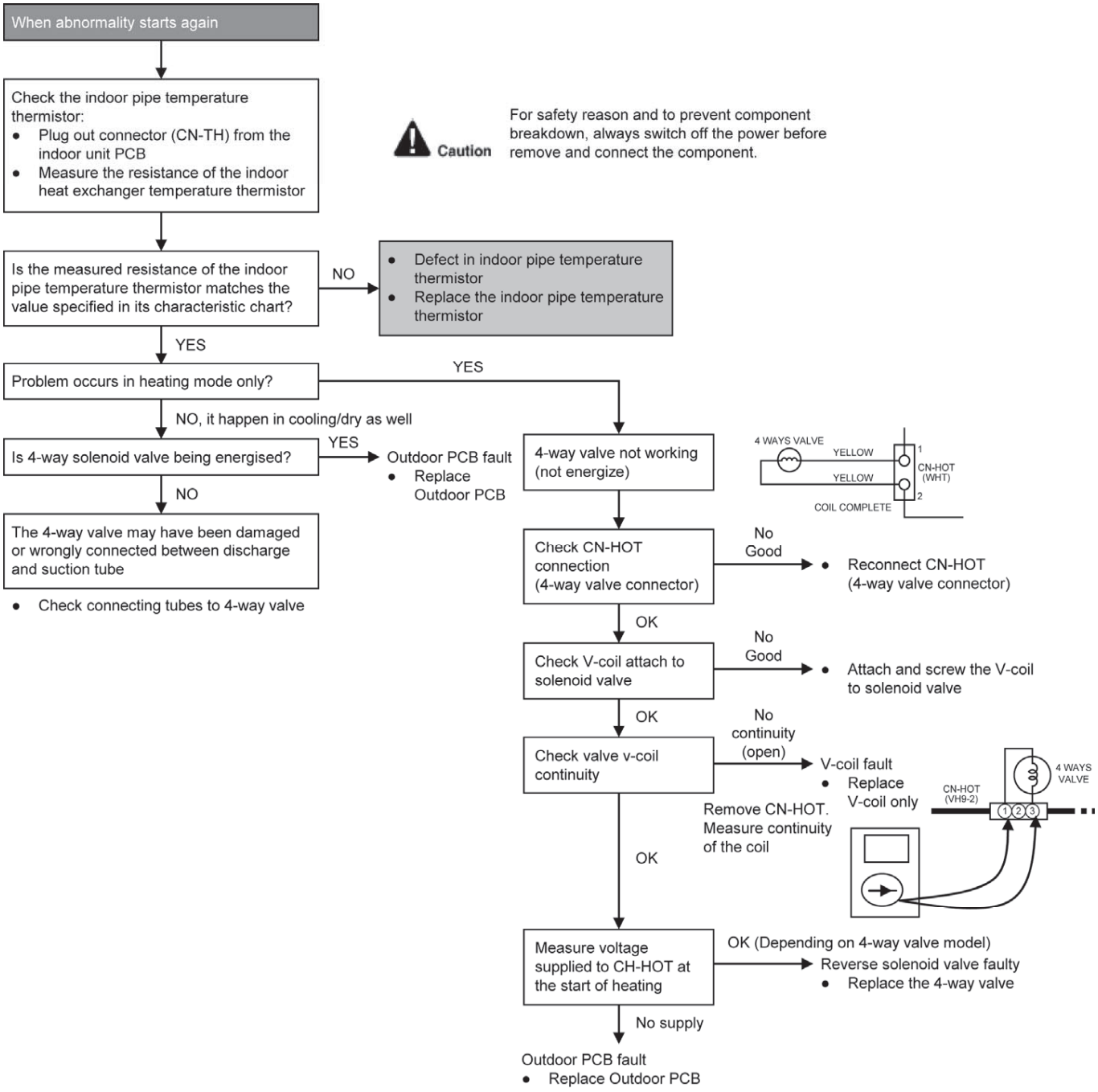
Malfunction Decision Conditions

- When indoor heat exchanger is cold during heating (except deice) or when indoor heat exchanger is hot during cooling and compressor operating, the 4-way valve is detected as malfunction.

Malfunction Caused

- Indoor heat exchanger (pipe) thermistor
- 4-way valve malfunction

Troubleshooting



* Check gas side pipe – for hot gas flow in cooling mode

P03 Compressor Overheating

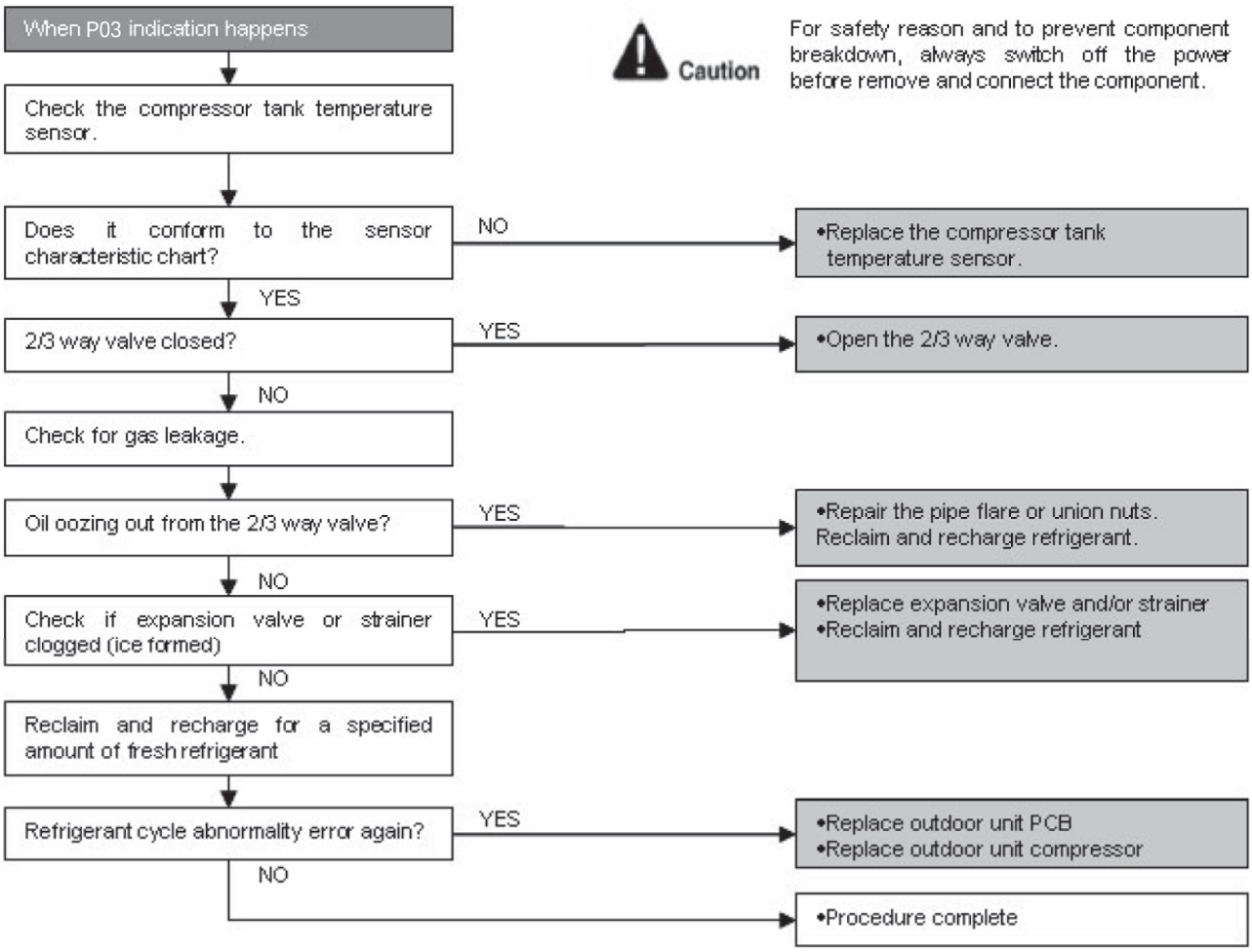
Malfunction Decision Conditions

- During operation of cooling and heating, when compressor tank temperature data (103°C) is detected by the compressor tank temperature sensor.

Malfunction Caused

- Faulty compressor tank temperature sensor
- 2 / 3 way valve closed
- Refrigerant shortage (refrigerant leakage)
- Faulty outdoor unit PCB
- Faulty compressor

Troubleshooting



P04 Outdoor High Pressure Protection: Cooling or Soft Dry

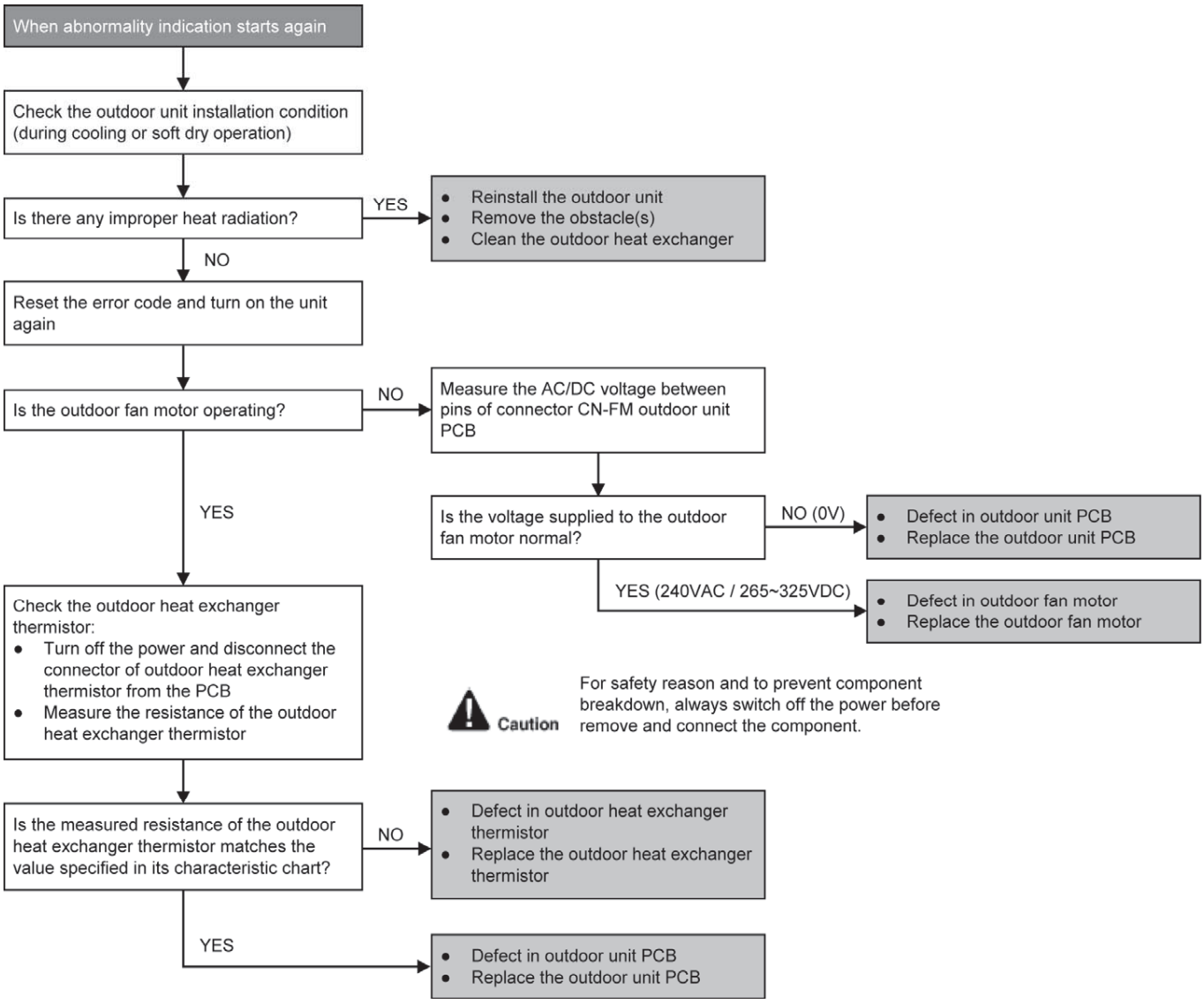
Malfunction Decision Conditions

- During operation of cooling or soft dry, when outdoor unit heat exchanger high temperature data is detected by the outdoor unit heat exchanger thermistor.

Malfunction Caused

- Outdoor heat exchanger temperature rise due to short-circuit of hot discharge air flow.
- Outdoor heat exchanger temperature rise due to defective of outdoor fan motor.
- Outdoor heat exchange temperature rise due to defective outdoor heat exchanger thermistor.
- Outdoor heat exchanger temperature rise due to defective of outdoor unit PCB.

Troubleshooting



P05 Unspecified Voltage between Indoor and Outdoor

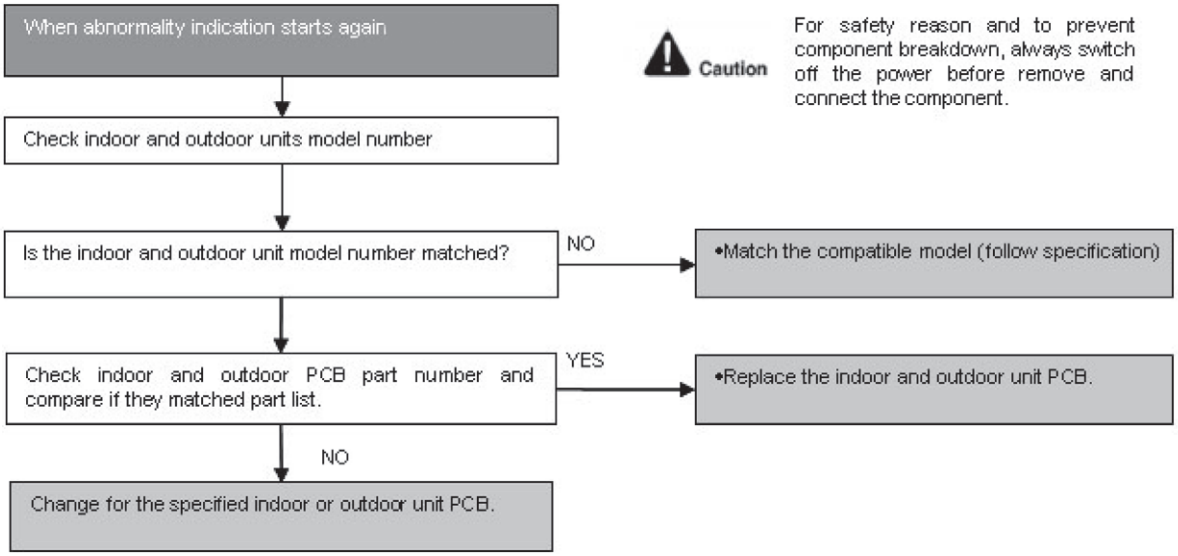
Malfunction Decision Conditions

- The supply power is detected for its requirement by the indoor / outdoor transmission.

Malfunction Caused

- Wrong models interconnected.
- Wrong indoor unit and outdoor unit PCBs used.
- Indoor unit or outdoor unit PCB defective.

Troubleshooting



5

P15 Refrigeration Cycle Abnormality

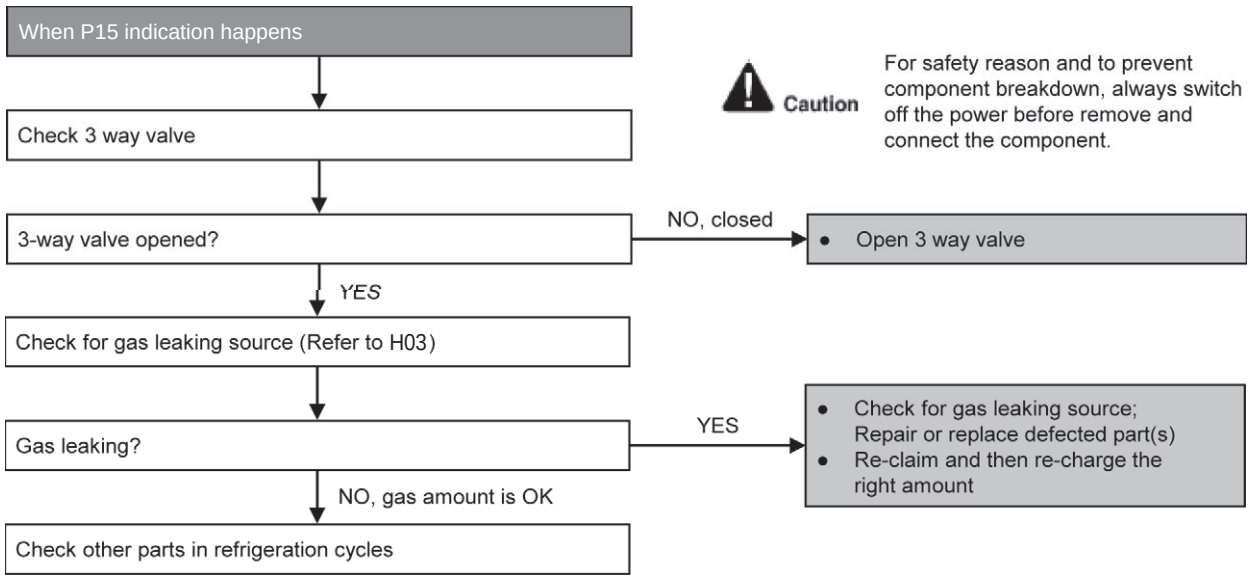
Malfunction Decision Conditions

- The input current is low while the compressor is running at higher than the setting frequency.

Malfunction Caused

- Lack of gas.
- 3-way valve close.

Troubleshooting



P16 DC Peak Detection

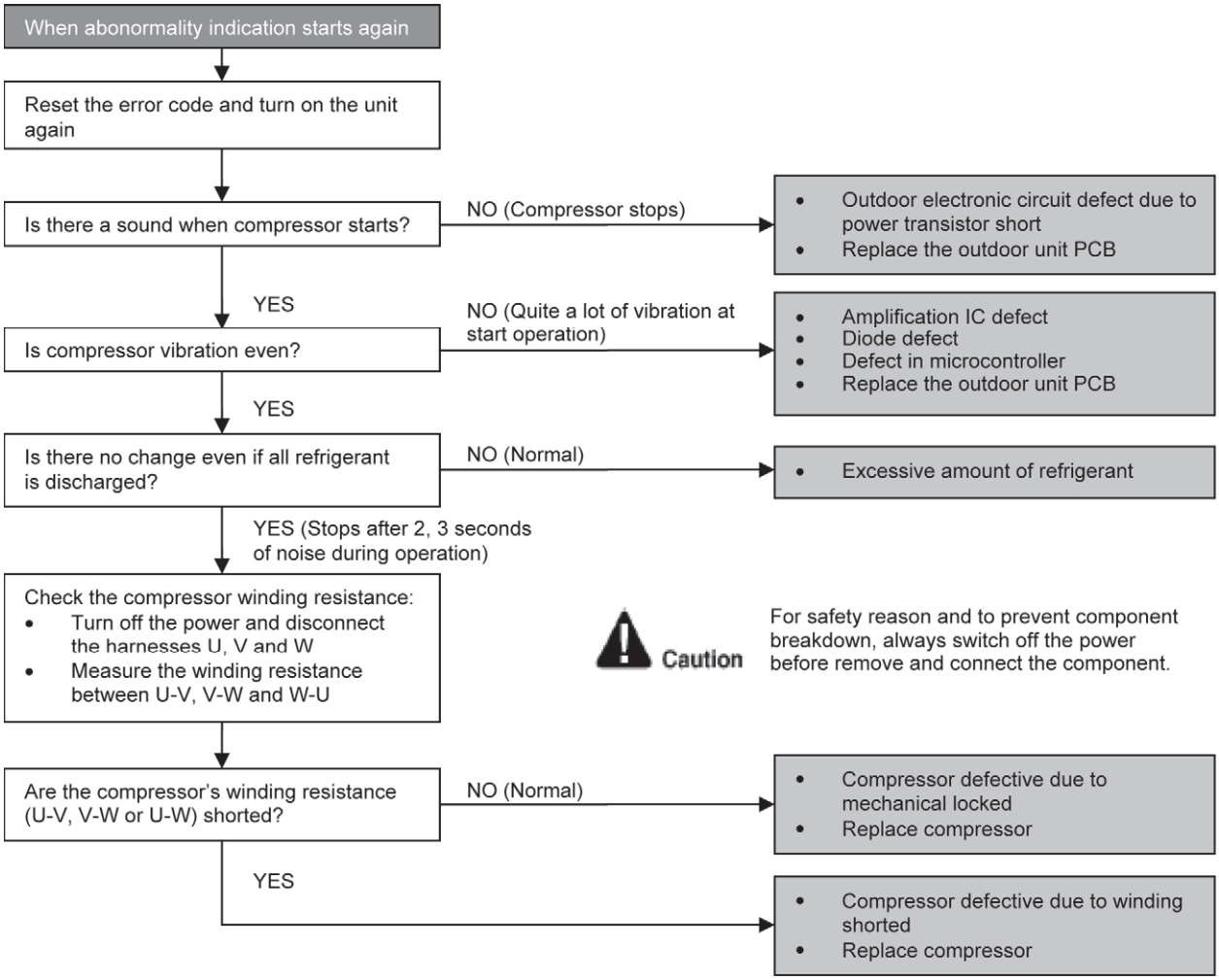
Malfunction Decision Conditions

During startup and operation of cooling and heating, when inverter DC peak data is received by the outdoor internal DC Peak sensing circuitry.

Malfunction Caused

- DC current peak due to compressor failure.
- DC current peak due to defective power transistor(s).
- DC current peak due to defective outdoor unit PCB.
- DC current peak due to short circuit.

Troubleshooting



P22 Outdoor Fan Motor – DC Motor Mechanism Locked

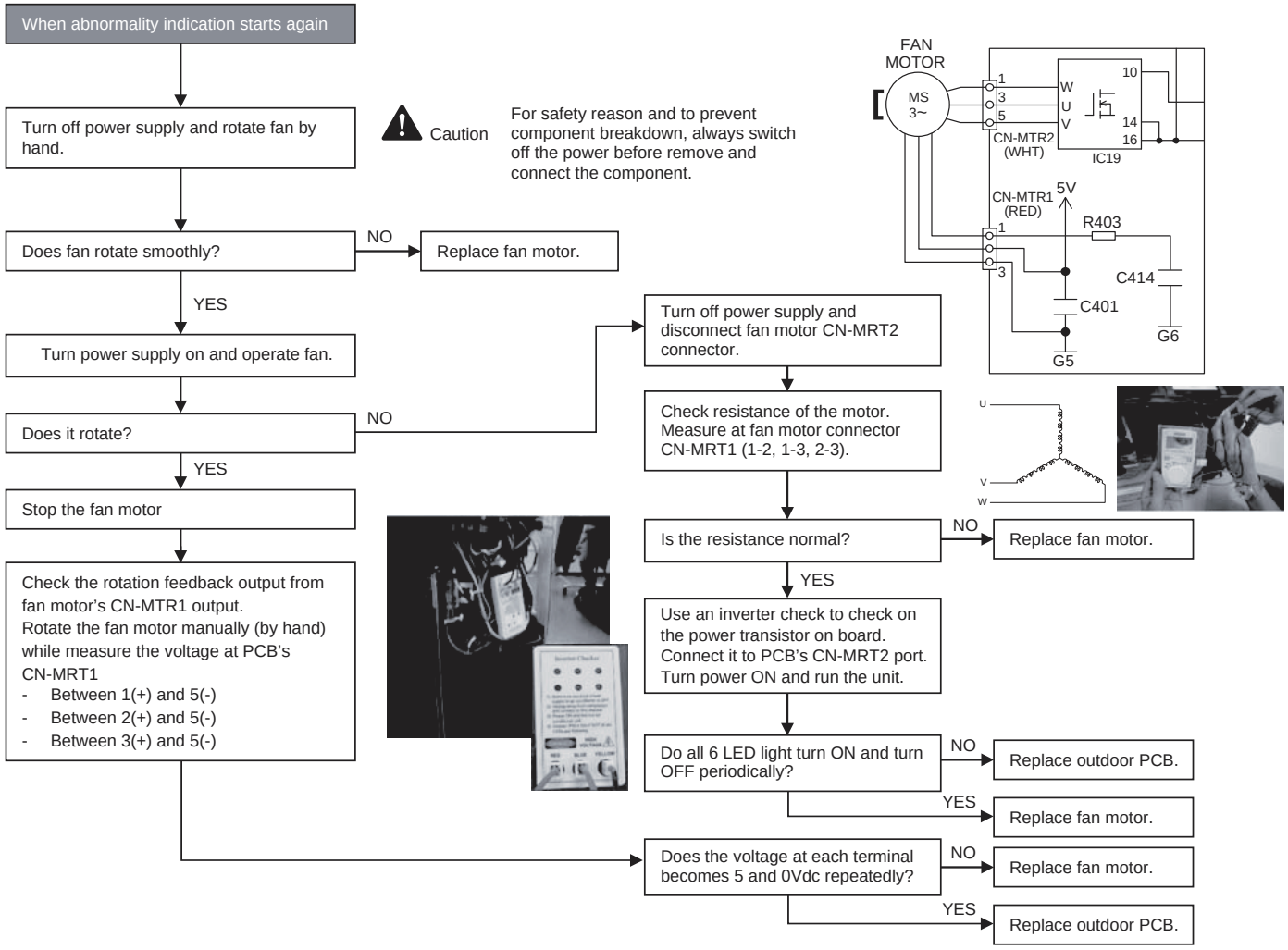
Malfunction Decision Conditions

- The rotation speed detected by the Hall IC during fan motor operation is used to determine abnormal fan motor.

Malfunction Caused

- Operation stops due to short circuit inside the fan motor winding.
- Operation stops due to breaking of wire inside the fan motor.
- Operation stops due to breaking of fan motor lead wires.
- Operation stops due to Hall IC malfunction.
- Operation error due to faulty outdoor unit PCB.

Troubleshooting



P29 Compressor Rotation Failure

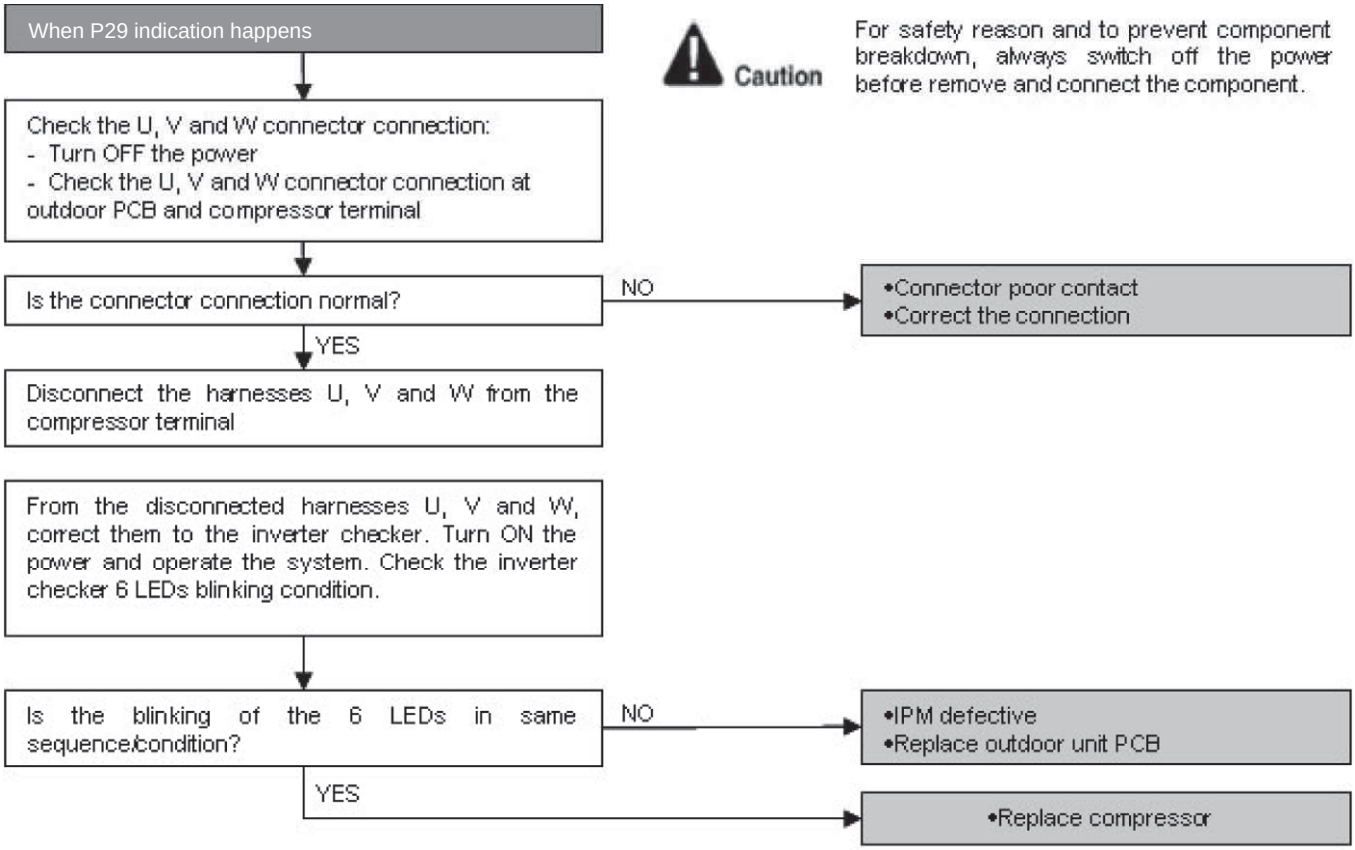
Malfunction Decision Conditions

- A compressor rotation failure is detected by checking the compressor running condition through the position detection circuit.

Malfunction Caused

- Compressor terminal disconnect
- Faulty Outdoor PCB
- Faulty compressor

Troubleshooting



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5-2-2-2. U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

Alarms for outdoor units

Alarm Code	Alarm Meaning
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E06	Outdoor Unit Failed to Receive Serial Communication Signals from Indoor Unit
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E20	Connection Problem of Indoor / Outdoor Units.
F04	Compressor Discharge Temperature Sensor (TD) Trouble
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble
F07	Intermediate Temperature Sensor (C2) in Heat Exchanger Trouble
F08	Outdoor Air Temperature Sensor (TO) Trouble
F12	Compressor Inlet Suction Temperature Sensor (TS) Trouble
F31	Outdoor Unit Nonvolatile Memory (EEPROM) Trouble
H01	Primary (input) Overcurrent Detected
H02	PAM Trouble
H03	Primary Current CT Sensor (current sensor) Failure
H31	HIC Trouble
L10	Outdoor Unit Capacity not Set or Invalid
L13	Indoor Unit Type Setting Error
L18	4-Way Valve Operation Failure
P03	Compressor Discharge Temperature Trouble
P04	High Pressure Trouble
P05	AC Power Supply Trouble
P13	Alarm Valve Open
P15	Insufficient Gas Level Detected
P16	Compressor Overcurrent Trouble
P22	Outdoor Unit Fan Motor Trouble
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure
P31	Group Control Error

Symptoms and Parts to Inspect

Remote controller alarm display	Alarm contents	Judgement conditions	Eliminating condition of alarm	Judgement and correction
P03	Abnormal discharge temperature error • Discharge temp. detected at or above the specified value	Stops when temp. exceeds 103°C. Alarm output on 5 pre-trips	Recovery at restart	1. Check refrigerant cycle (gas leak). 2.Trouble with electronic expansion valve 3.Check discharge temperature sensor (TD).
P05	CT disconnected or AC power supply error DC voltage charge failure	The current value transmitted from the microcomputer on the outdoor unit control substrate is low. When no AC power input for more than 30 seconds to 5 minutes : Single alarm	Recovery at restart	1. Check outdoor unit control PCB. 2. Lack of reactor wire 3. Check power frequency.
P15	Insufficient gas level detected.	• Discharge temperature is 95°C or higher. • Electronic expansion valve is at Step 480. When the above has continued for 1 minute. Indoor air sucking due to body thermostat max (E1 or E2) - TA ≤ 4°C • Secondary current ≤ Current value of gas shortage determination	Recovery at restart	1.Check refrigerant cycle (gas leak). 2.Trouble with electronic expansion valve 3.Check outdoor unit valve opening.
L18	4-way valve operation failure • Judged after heating operating for 5 minutes consecutively.	The indoor unit heat exchanger temperature drops even though the compressor is switched on during the heating mode: To +20°C ≤ C1 Pre-trip 1 time	Recovery at restart	1. Check 4-way valve. 2. Check 4-way valve wiring. 3. Check outdoor unit control PCB.
P04	High-pressure protection error	High pressure switched ON →OFF (Alarm is output when switch opened.) Pre-trip 4 times.	Recovery at restart	Overload operation of refrigerant cycle
P22	Outdoor unit fan motor trouble • Inverter protection circuit was activated, or lock was detected at outdoor unit fan motor.	Inverter stops after alarm is detected. Pre-trip 10 times	Recovery at restart	1.Position detection trouble. 2.Outdoor unit fan motor over-current Protection circuit is activated. • Check outdoor unit control PCB. • See outdoor unit fan judgement methods.
P29	Lack of INV compressor wiring, INV compressor actuation failure, DCCT failure	Inverter stops after alarm is detected. Alarm is output when inverter stops (pre-trip) consecutively 10 times.	Recovery at restart	1.Stops immediately even when operations restarted. • Layer short on the compressor 2.Check HIC circuit. • Wiring trouble
H31	HIC trouble	Pre-trip consecutively 10 times	Temperature dropped	Heat sink and PCB (HIC) • Contact trouble

E04 Error in Indoor Unit Receiving Signal from the Outdoor unit

1. Error Detection Method

When there is no communication within a 3-minute period from the outdoor unit. Or, judged an error when no reply comes from the outdoor unit.

- The outdoor unit is not turned on.
- When the power was turned on after auto address setting was completed, the number of indoor units had been changed.
- Forgot to turn on the indoor unit.
- The CHK pin and / or TEST pin on the indoor unit's control PC board are shorted.
- Forgot to install the nonvolatile memory (EEPROM) when replacing the indoor unit control PC board.
- Mistakenly set the indoor unit address to Not Set in the remote control's detailed setting mode.
- When indoor unit addresses are duplicated.
- There is a short, open, wrong contact or grounding of the indoor / outdoor control line*.
- There is an error in the receiving circuit on the signal output PC board (optional control PC board).
- Malfunctions of the outdoor unit
- The thermistor inside the indoor unit is grounded.
- The capacity setting is mismatched between indoor units and the outdoor unit.

2. Error Diagnosis

1 Power Source	1-1	Is / was the power to the outdoor unit cut off?	Yes	After turning the power on, wait three minutes
			No	1-2
	1-2	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor wiring connected correctly?	Yes	3-1
			No	Correct the wiring
3 Number and setting of indoor units	3-1	Was the number of indoor units increased or decreased after auto address setting was complete?	Yes	3-2
			No	3-3
	3-2	Conduct checks prior to auto address setting.		
	3-3	Check the indoor unit addresses from the remote control's detailed settings mode. Is it Not Set (99), or is the indoor unit's address duplicated?	Yes	3-2
			No	3-4
	3-4	Check the indoor unit capacity from the remote control's detailed settings mode. Does it match the capacity of outdoor unit?	Yes	4-1
			No	3-2
4 Indoor unit control PC board	4-1	Are the CHK pin and / or TEST pin on the indoor unit control PC board short-circuited?	Yes	Remove the short
			No	4-2
	4-2	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	4-3
			No	4-5
	4-3	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E04 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	4-4
			No	4-5
	4-4	Replace wireless remote control parts including wiring.		
	4-5	Is the LED on the indoor unit control PC board blinking?	Yes	4-6
			No	4-7
	4-6	The nonvolatile memory (EEPROM) on the indoor unit's control PC board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
	4-7	Are all the remote controllers of the other indoor units connected to that outdoor unit displaying E04?	Yes	Replace the outdoor unit both control board (CR/HIC)
			No	Replace the indoor unit control board

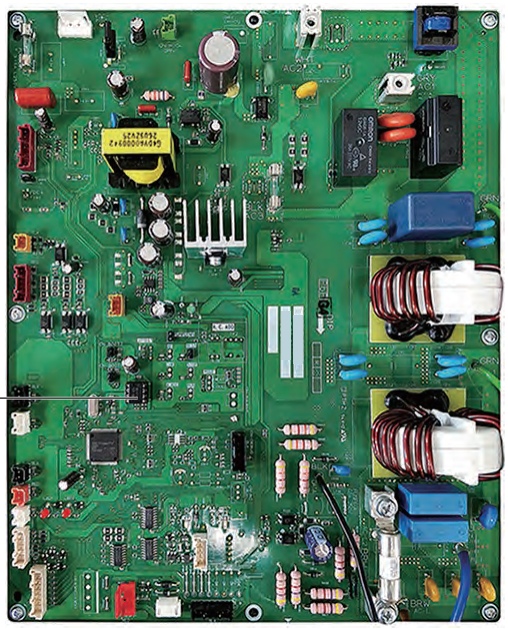
* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

Outdoor Unit Control PCB (CR/HIC)

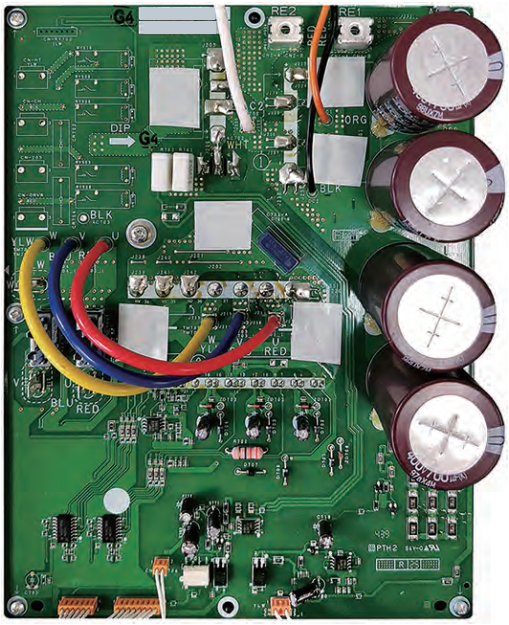
■ **CR-PCB : ACXA73-33930 (U-100PZ3E5)**

■ **CR-PCB : ACXA73-33950 (U-125PZ3E5, U-140PZ3E5)**

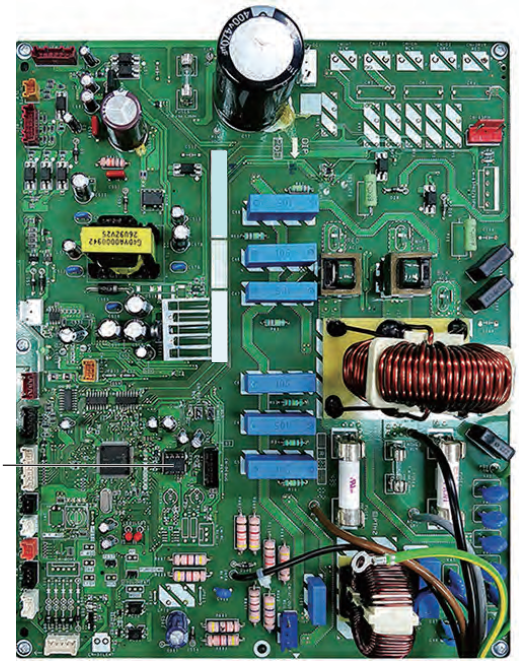


■ **HIC-PCB : ACXA73-33940 (U-100PZ3E5)**

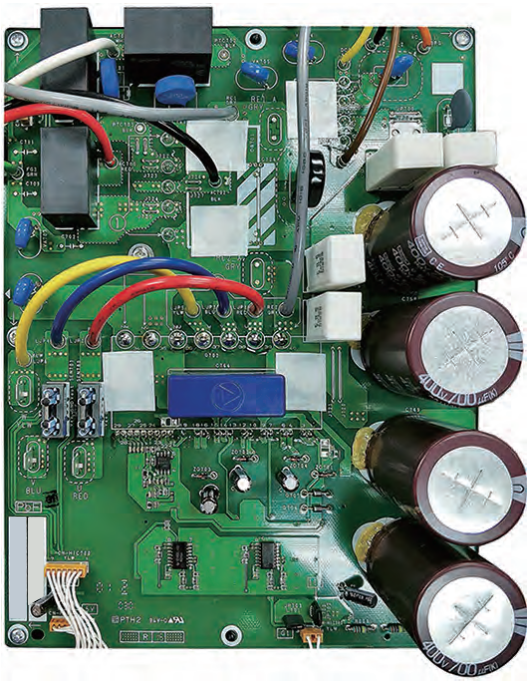
■ **HIC-PCB : ACXA73-33960 (U-125PZ3E5, U-140PZ3E5)**



■ **CR-PCB : ACXA73-33970 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**

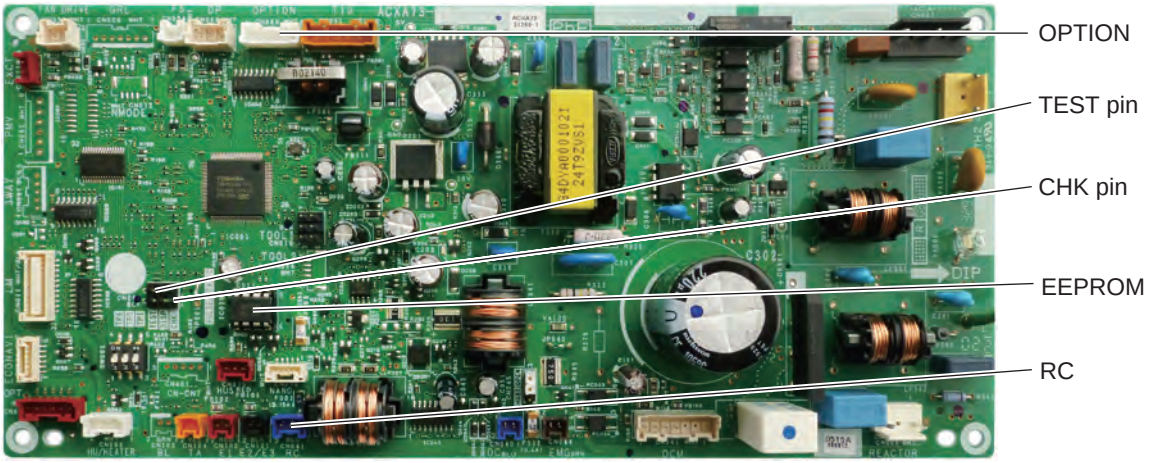


■ **HIC-PCB : ACXA73-33980 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**

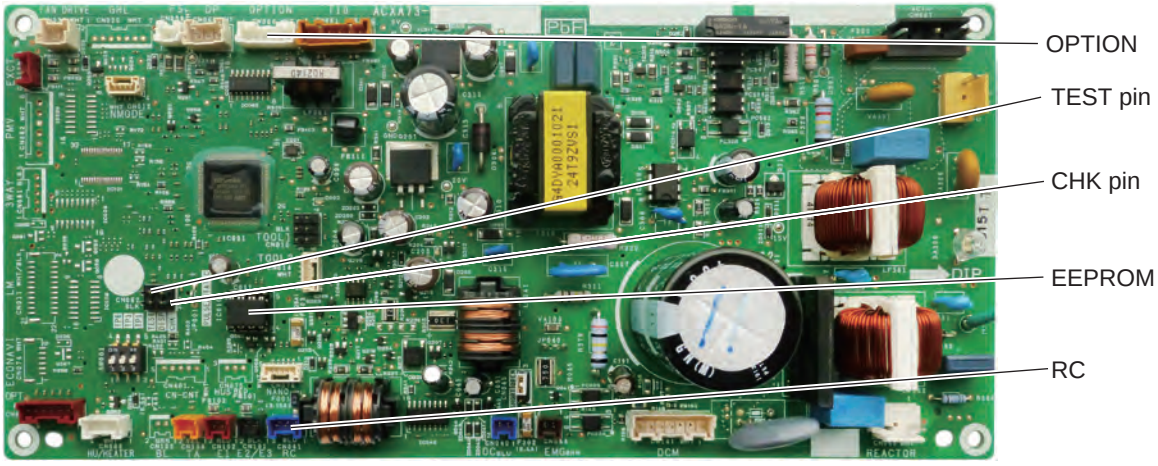


Indoor Unit Control PCB

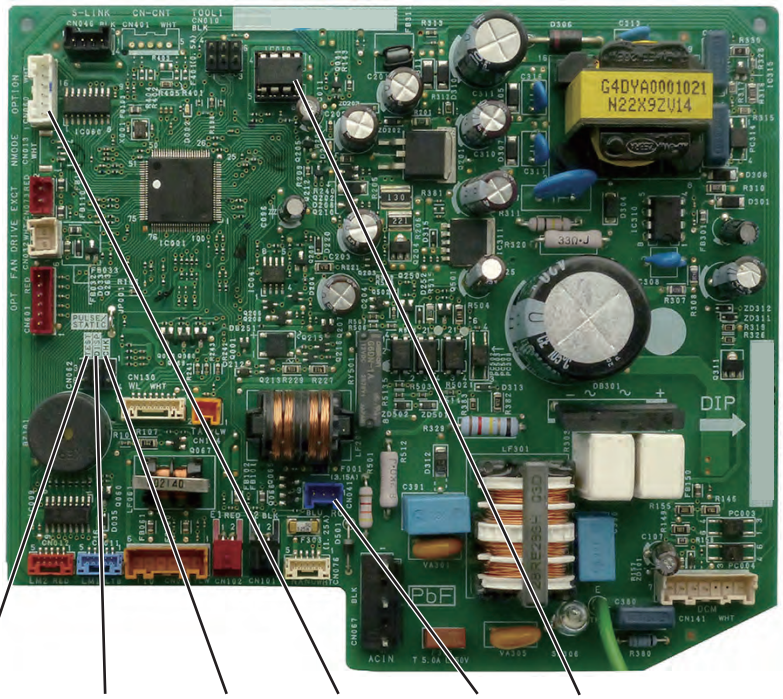
■ **ACXA73-3129* : 4-Way Cassette Type**



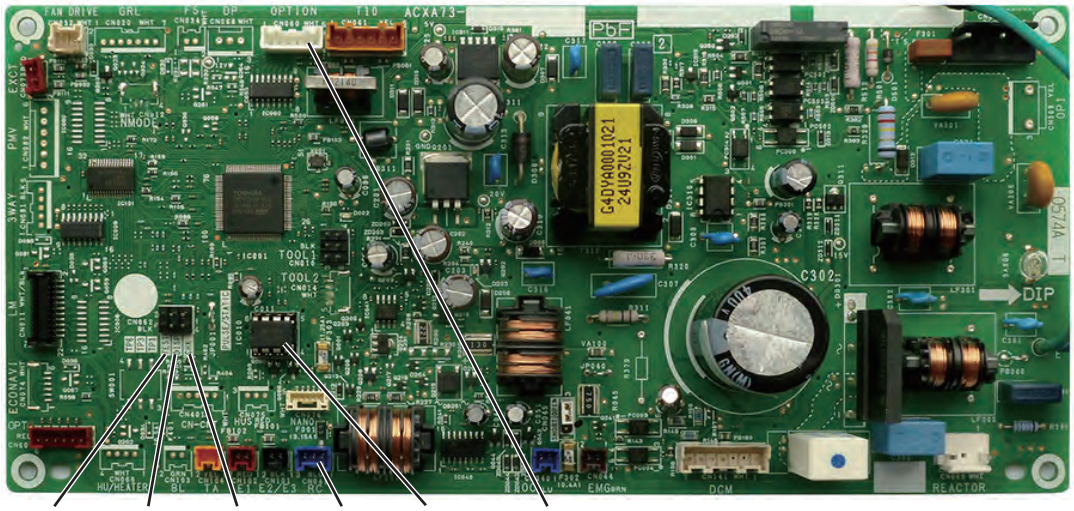
■ **ACXA73-3440* : Middle Static Pressure Duct Type**



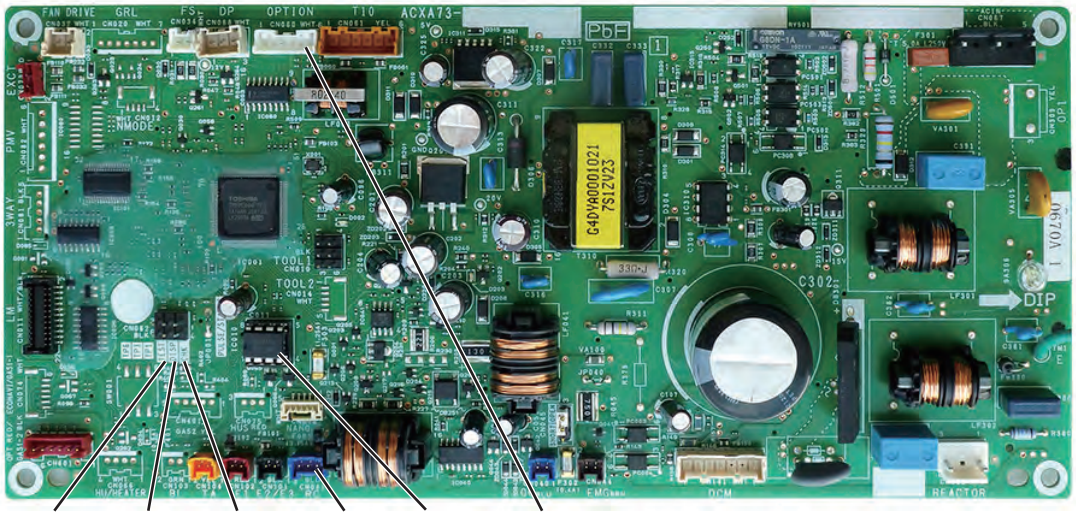
■ **ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board**



■ **ACXA73-3611* : Ceiling Type Indoor Unit Control Board**



■ **ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board**



E06 Outdoor Unit Failed to Receive Serial Communication Signals from Indoor Unit

(When indoor unit(s) are connected)

1. Error Detection Method

It is judged an error when there is no transmission (reply) from the indoor unit to the outdoor unit for a period of three minutes.

- The indoor unit is not turned on.
- The DISP pin of the indoor unit is shorted.
- There is a short, open, wrong contact or grounding of the indoor / outdoor control line*.
- The signal output control PC board (optional control PC board) inside the indoor unit has failed.
- The thermistor inside the indoor unit is grounded.

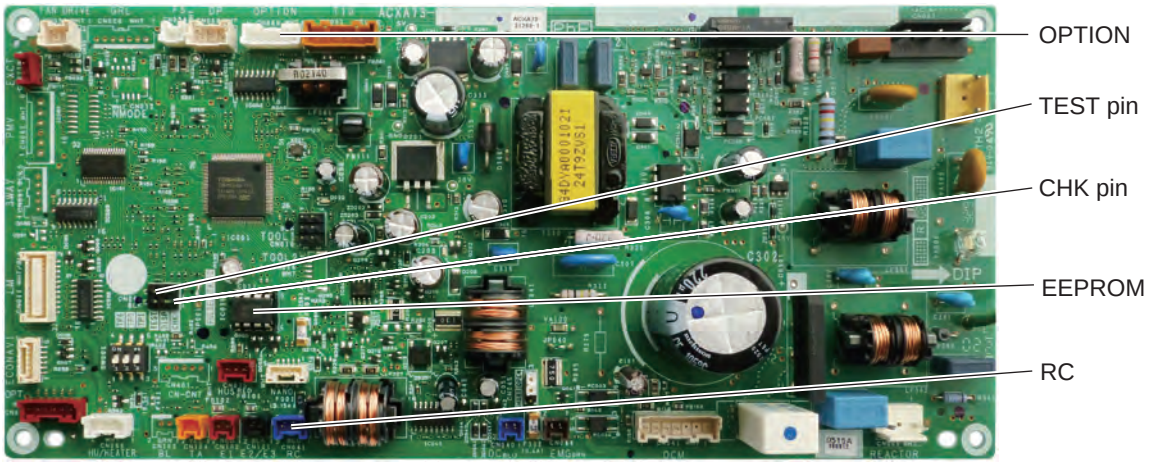
2. Error Diagnosis

1 Indoor unit power	1-1	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor control line* shorted, opened, grounded or has a wrong contact?	Yes	Correct the wiring
			No	3-1
3 Indoor units control PC board	3-1	Are the DISP pin and CHK pin on the indoor unit control PC board short-circuited?	Yes	Remove the short
			No	3-2
	3-2	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	3-3
			No	3-5
	3-3	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E06 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	3-4
			No	3-5
	3-4	Replace wireless remote control parts including wiring.		
	3-5	Indoor unit control PC board failure → Replace board.		

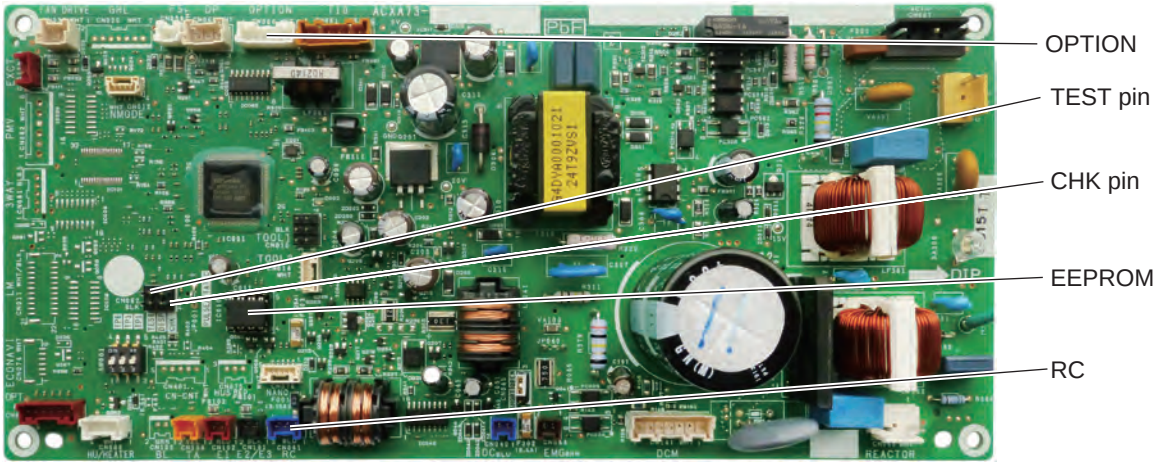
- For information on the procedures for replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit control PCB.

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

■ ACXA73-3129* : 4-Way Cassette Type

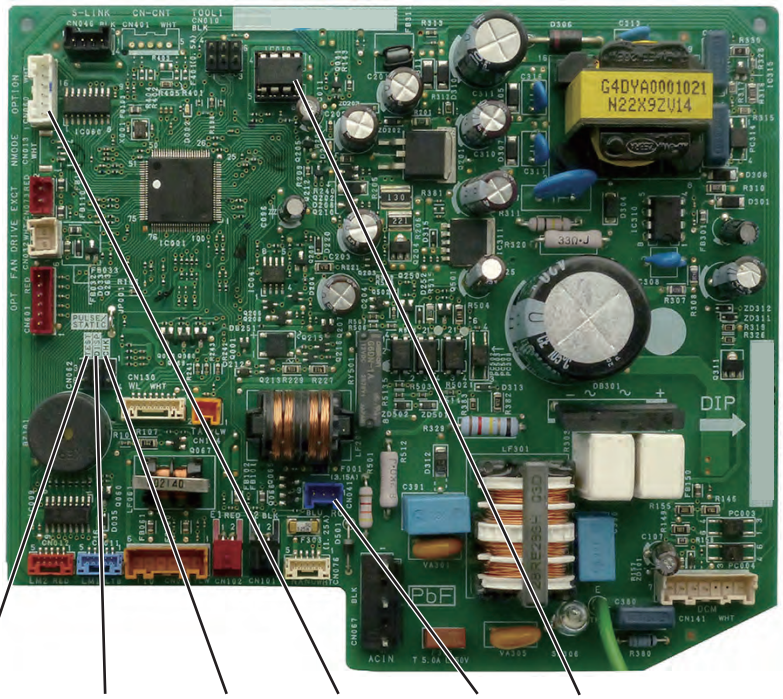


■ ACXA73-3440* : Middle Static Pressure Duct Type

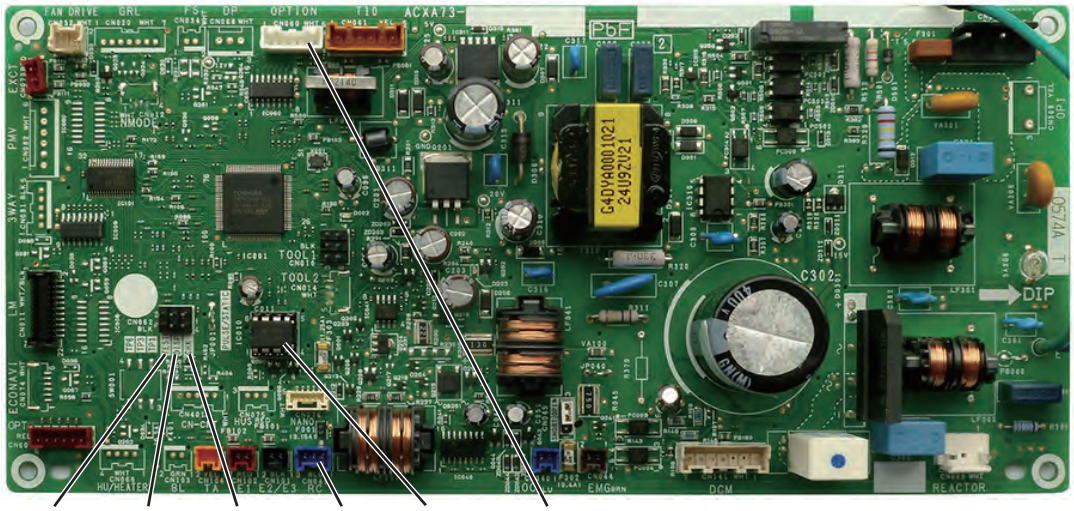


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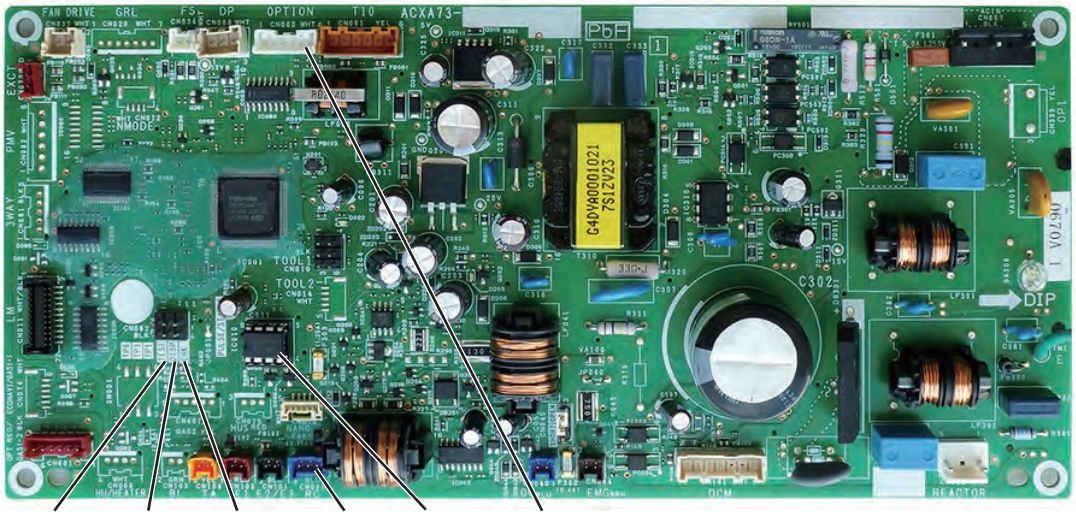
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



E15 Auto Address Alarm (The total capacity of indoor units is too low.)

1. Error Detection Method

Connecting indoor unit

It is judged an error the total capacity of indoor units replied by communication is lower than that of outdoor unit.

- The total capacity of indoor units is lower than that of outdoor unit
- Some indoor unit(s) are connected but power is not turned on
- The CHK pin (CN062 / CN071) and / or TEST pin (CN064) of the indoor unit is shorted when its power is turned on.

2. Error Diagnosis

1 Power Source	1-1	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor wiring connected correctly?	Yes	3-1
			No	Correct the wiring
3 Number of Indoor Units	3-1	Was the number of indoor units changed after auto address setting finished?	Yes	3-2
			No	4-1
	3-2	Conduct checks prior to auto address setting.		
4 Indoor unit control PC board	4-1	Be sure that the detailed setting items are made at factory setting. [U3, F3, K3, T3]	Yes	4-2
			No	Correct the setting Run the auto address
	4-2	Are the CHK pin and TEST pin on the indoor unit control board short-circuited?	Yes	Remove the short
			No	4-3
	4-3	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	4-4
			No	4-6
	4-4	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board and see whether the E15 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	4-5
			No	4-6
	4-5	Replace wireless remote control parts including wiring.		
	4-6	Is the LED blinking on the indoor unit's control PC board?	Yes	4-7
			No	5-1
	4-7	The nonvolatile memory (EEPROM) on the indoor unit's control board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
5 Outdoor unit control PC board	5-1	Check all items under the section "Check Prior to Auto Address Setting".		

- **Factory setting**

Item code	Item	Value
11	Indoor unit capacity	0
12	System address	99
13	Indoor unit address	99
14	Group control address	99

NOTE

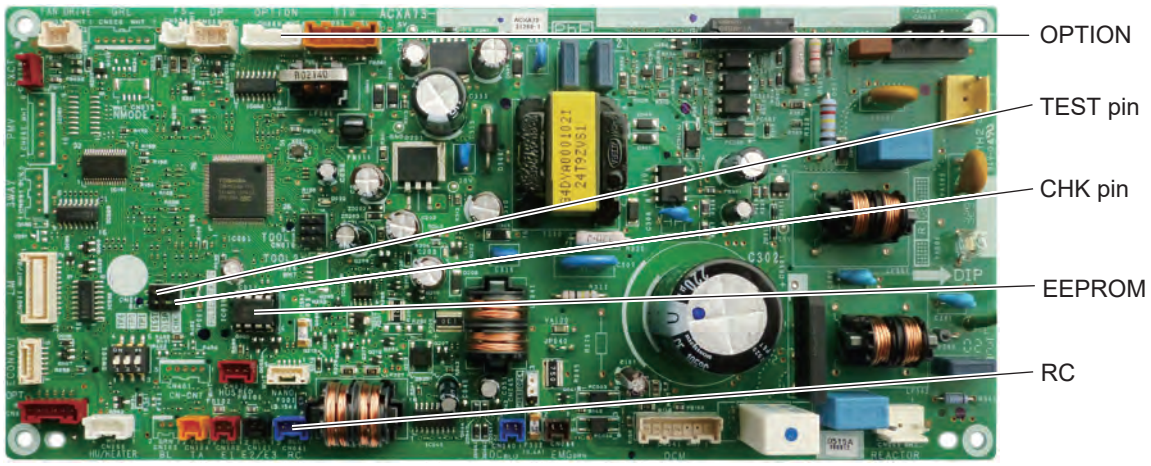
The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units.

If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings. It is necessary to set the auto address settings once again.

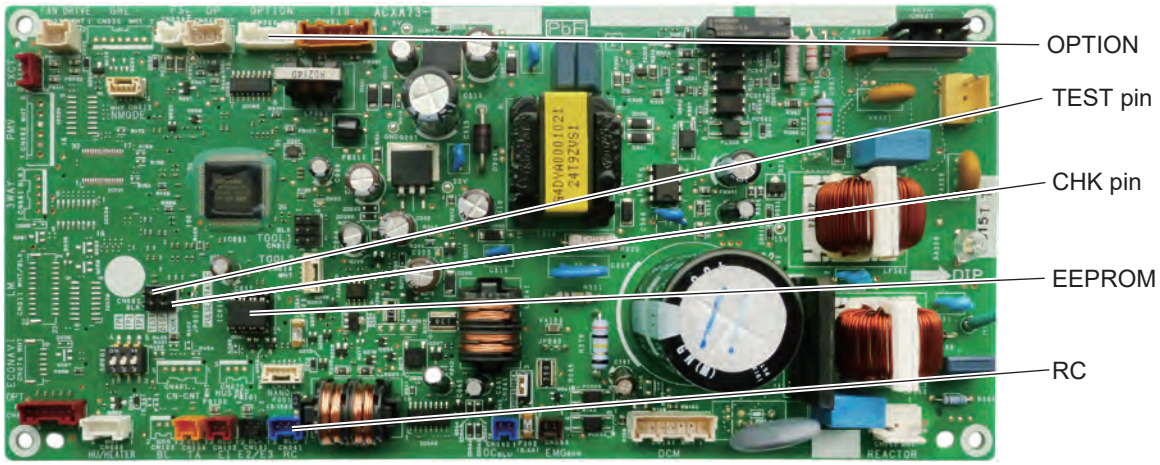
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.

  * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

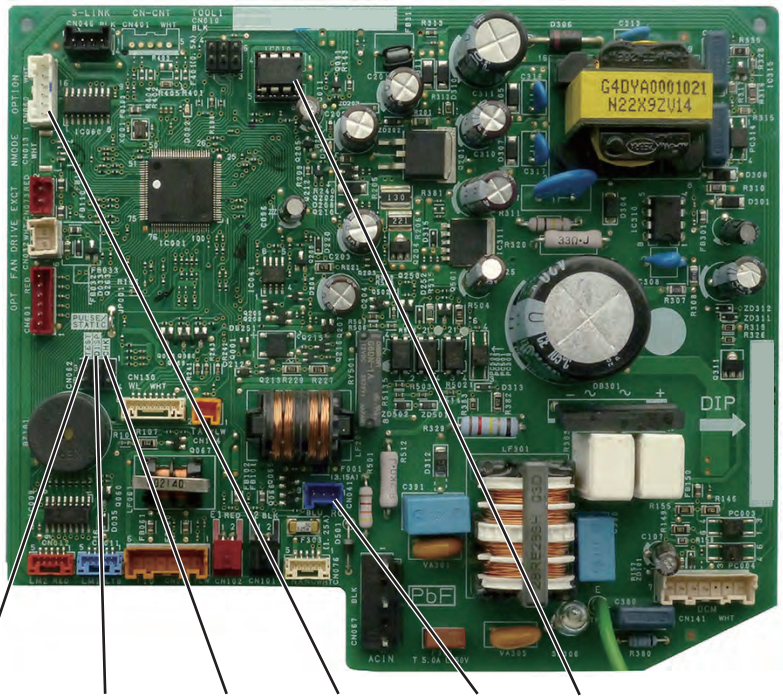
■ **ACXA73-3129* : 4-Way Cassette Type**



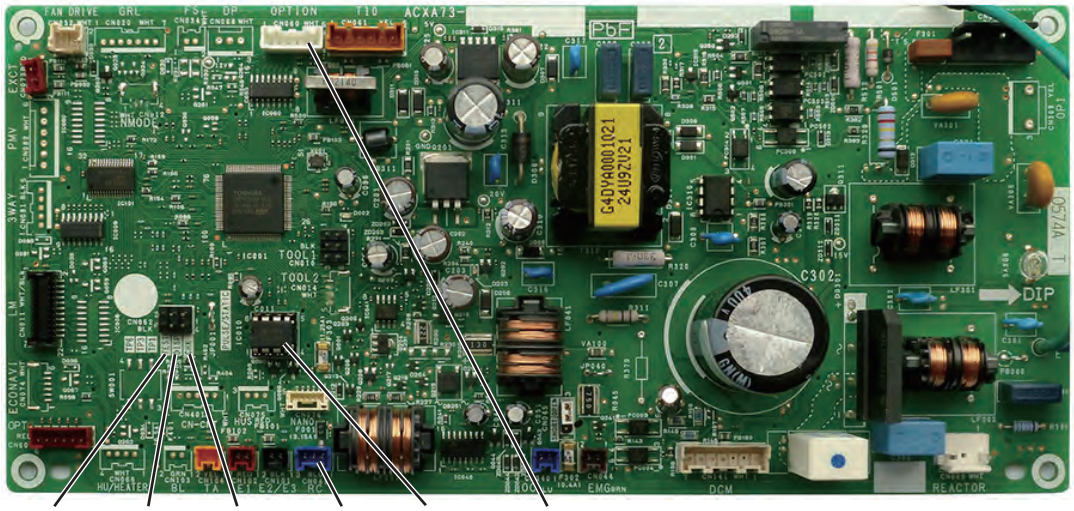
■ **ACXA73-3440* : Middle Static Pressure Duct Type**



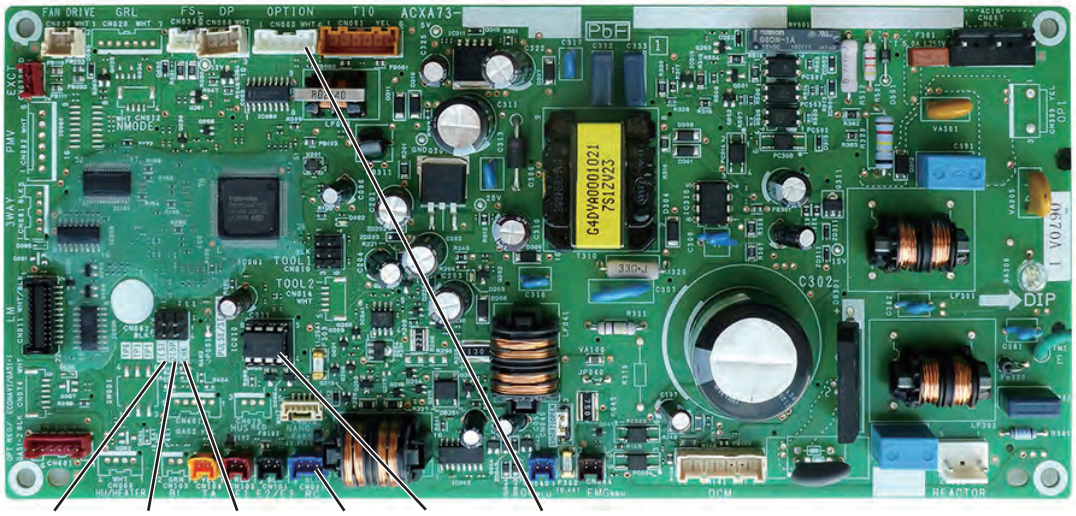
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



E16 Auto Address Alarm (The total capacity of indoor units is too high.)

1. Error Detection Method

It is judged an error the total capacity of indoor units is too high or the total number of indoor units is too many.

- The total capacity of indoor units is too high.
- The total number of indoor units is too many.
- When making group control of the different refrigerant system, the steps to turn on the systems one at a time have not been performed.

2. Error Diagnosis

1 Auto Address	1-1	Conduct checks prior to auto address setting.

E20 Auto Address Alarm (No indoor unit connected)

1. Error Detection Method

The outdoor unit detects an error at following cases during auto address setting.

- Indoor unit is not turned on.
- Indoor / outdoor control line* is disconnected and also detects an error in the following cases when the outdoor unit is turned on.
- Address(es) of indoor unit(s) are not assigned correctly.
- Capacity of indoor / outdoor units is mismatched.
- Total number of indoor units is too many.

2. Error Diagnosis

1 Indoor Unit	1-1	Are the address(es) of indoor unit(s) assigned correctly?		Yes	1-2
				No	Set its address
	1-2	Are the indoor units turned on?		Yes	1-3
				No	Power on
	1-3	Be sure that the indoor and outdoor units are connected with correct combination written in catalog.	Yes	1-4	
			No	Correct the connection	
	1-4	The indoor / outdoor control line* may be disconnected somewhere between the indoor unit(s) and the outdoor unit. Make sure the indoor / outdoor control line* is connected.			

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

F04 Compressor Discharge Temperature Sensor (TD) Trouble

1. Error Detection Method

It is judged an error based on the criteria listed below.

- Open circuit or Short circuit

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Sensor is correctly installed at holder side.	Yes	Replace sensor
			No	Correct and see what happens.
				1-3
	1-3	Abnormal temperature exists even after replacing sensor.	Yes	2-1
			No	See what happens.
2 PC board	2-1	Resistance between connector pins on PC board is less than 1 k ohm	Yes	Replace PC board
			No	2-2
	2-2	Abnormal temperature exists even after replacing PC board.	Yes	3-1
			No	See what happens.
3 Operating status	3-1	Peripheral temperature of outdoor unit is over 43°C.	Yes	Correct
			No	3-2
	3-2	Tends to have insufficient refrigerant charge in the system.	Yes	Adjust the amount of refrigerant
			No	3-3
	3-3	Check noise.		

F06 Inlet Temperature Sensor (C1) in Heat Exchanger Trouble

1. Error Detection Method

- In case of open or short

2. Error Diagnosis

1 Sensor Trouble	1-1	Is the connector properly connected to PCB?	Yes	1-2
			No	Reconnect & check
	1-2	Is the resistor between the sockets infinity or 0Ω?	Yes	Replace sensor.
			No	2-1
2 Control PCB Failure	2-1	Outdoor unit control PCB failure Replace PCB with a new one.		

F07 Intermediate Temperature (C2) in Heat Exchanger Trouble

1. Error Detection Method

It is judged an error when open circuit or short circuit.

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Resistance between sockets is infinity or 0 ohm.	Yes	Replace sensor
			No	2-1
2 PC board	2-1	Replace PC board because of outdoor control PC board failure.		

F08 Outdoor Air Temperature Sensor (TO) Trouble

1. Error Detection Method

It is judged an error when open circuit or short circuit.

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Resistance between sockets is infinity or 0 ohm.	Yes	Replace sensor
			No	2-1
2 PC board	2-1	Replace PC board because of outdoor control PC board failure.		

F12 Compressor Inlet Suction Temperature Sensor (TS) Trouble

1. Error Detection Method

It is judged an error when open circuit or short circuit.

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Resistance between sockets is infinity or 0 ohm.	Yes	Replace sensor
			No	2-1
2 Outdoor control PC board	2-1	Replace PC board because of outdoor control PC board failure.		

F31 Outdoor Unit Nonvolatile Memory (EEPROM) Trouble

1. Error Detection Method

It is judged an error based on the criteria listed below.

- When power initially turned ON for the first time, nonvolatile memory (EEPROM) is not installed.
- Read values after writing onto nonvolatile memory (EEPROM) is inconsistent.

2. Error Diagnosis

1 PC board	1-1	Does EEPROM exist on the control PC board?	Yes	1-2
			No	Install EEPROM
	1-2	Is EEPROM installed properly? (Check: Bent IC pin or incorrect installation, etc.)	Yes	1-3
			No	Correct
	1-3	Incorrect EEPROM Replace with correct EEPROM.		

H01 Primary (input) Overcurrent Detected

1. Error Detection Method

- Primary current effective value detected overcurrent (trip current value).

Type		PZ3					
Model name (U-)		100PZ3E5	125PZ3E5	140PZ3E5	100PZ3E8	125PZ3E8	140PZ3E8
Trip current value	Heating	27.6A	33.0A	33.5A	13.5A	14.5A	15.0A
	Cooling	27.6A	32.0A	32.5A	13.2A	14.2A	14.5A

2. Error Diagnosis

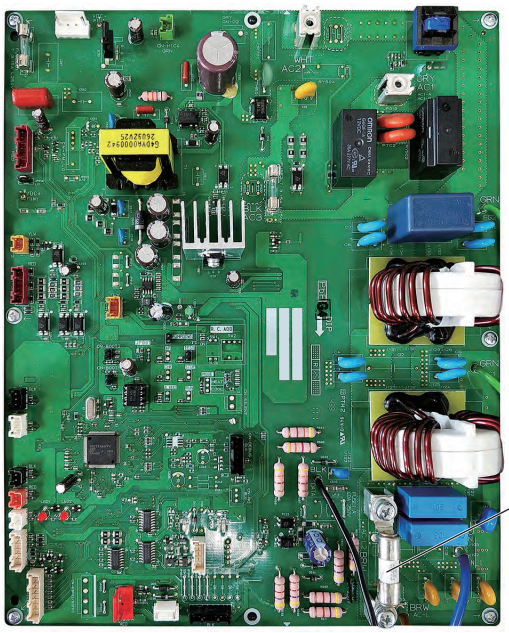
1 Power supply*	1-1	Not satisfied with ±10% rated supply voltage	Yes	Check power supply
			No	1-2
	1-2	Extreme voltage fluctuations	Yes	Check power supply
			No	1-3
	1-3	Extreme distortion of voltage waveform	Yes	Check power supply
			No	1-4
	1-4	Instantaneous blackout may sometimes occur.	Yes	Check power supply
			No	2-1
2 PC board wiring	2-1	Has FUSE 1-A / FUSE 2 and FUSE 3 blown? Check the electrical conduction with tester.	Yes	2-3
			No	2-2
	2-2	Loose electrical wire connection	Yes	Correct wiring
			No	2-3
	2-3	Replace CR board.		

* Check not only in the outdoor unit stop mode but in the drive mode.

For Single-Phase Outdoor Unit PCB

■ **CR-PCB : ACXA73-33930 (U-100PZ3E5)**

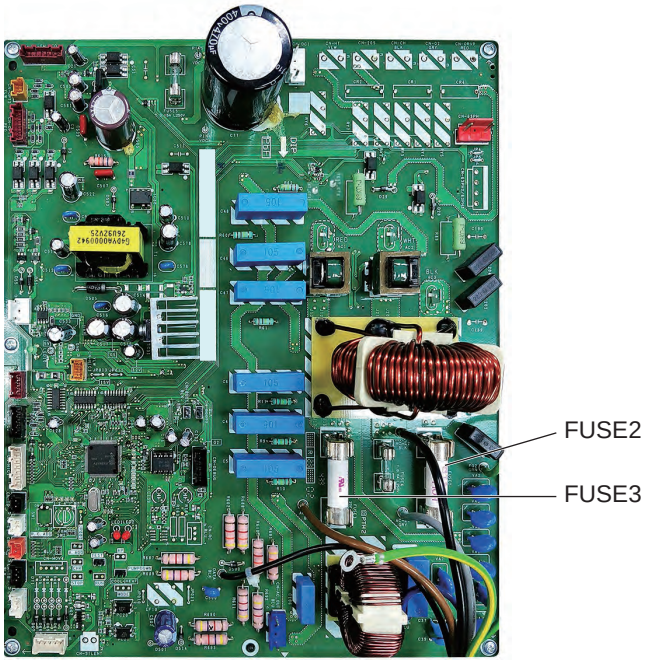
■ **CR-PCB : ACXA73-33950 (U-125PZ3E5, U-140PZ3E5)**



5

For 3-Phase Outdoor Unit PCB

■ **CR-PCB : ACXA73-33970 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**



H02 PAM Trouble (Single-phase only)

1. Error Detection Method

- Error is detected by over-voltage and overcurrent of DC side.

2. Error Diagnosis

1 Power supply*	1-1	Not satisfied with ±10% rated supply voltage	Yes	Check power supply
			No	1-2
	1-2	Extreme voltage fluctuations	Yes	Check power supply
			No	1-3
	1-3	Extreme distortion of voltage waveform	Yes	Check power supply
			No	2-1
2 PC board wiring	2-1	Loose electrical wire connection	Yes	Correct connection
			No	2-2
	2-2	Replace HIC PC board.		

* Check not only in the outdoor unit stop mode but in the drive mode.

H03 Primary Current CT Sensor (current sensor) Failure

1. Error Detection Method

It is judged an error based on the criteria listed below.

- If 18A or greater is detected when the compressor is stopped (alarm triggered even if the connector is unplugged).
- If no current is detected even though a compressor is running.

2. Error Diagnosis

1 Check the control PC board	1-1	Turn the power on again and run the outdoor unit. Is alarm occurred after operation?	Yes	Replace CR board.
			No	See what happens.

- Check also the power supply.

H31 HIC Trouble

1. Error Detection Method

It is judged an error if the computer detects an error signal from the HIC.
An error signal is issued by the HIC if abnormal heat occurs inside the HIC or if there is an overcurrent.
However, it is judged an error in the same way if the signal line from the HIC is not connected properly or opened.

- HIC overcurrent due to HIC fault
- HIC abnormal heat caused by defective HIC or HIC radiation error
- Signal line is not connected properly or opened between the HIC and the outdoor CR board.

2. Error Diagnosis

1 Wiring between HIC & outdoor control PC board	1-1	The wiring (power cord and signal line) between the HIC and the outdoor CR board is connected properly.	Yes	1-2
			No	Correct wiring (connector)
	1-2	Everything is normal in the wiring (power cord & signal line) between the HIC and the outdoor CR board. Check the wiring one by one with a tester if there is opened and grounding.	Yes	2-1
			No	Replace wiring
2 HIC poor radiation	2-1	The heat dissipating surface on the back of the HIC is in good contact with the heat sink (heat dissipating fins) of the electrical box. Check for looseness in the fastening screws and the condition of the heat-conducting putty.	Yes	2-2
			No	Tighten screw(s), add putty
	2-2	A good flow of cooling air passes through the heat sink (heat dissipating fins) of the electrical box. Check for debris blocking the fins.	Yes	3-1
			No	Remove foreign matter
3 HIC overcurrent	3-1	The results of the pass / fail tests for the following HIC board IPM show it to be outside the range of the resistance of a conforming part.	Yes	Replace the HIC PC board
			No	3-2
	3-2	The inverter compressor was stopped / started more than 10 times and it triggered H31 at a high rate. If alarm code P16 occurs at times, refer to the alarm code P16.	Yes	Replace the HIC PC board
			No	Refer to alarm code P16

- **HIC board IPM Pass / Fail Tests**
  - Measure with an analog tester. (Set to the k ohm range)
  - Measure the board by itself. (Remove wires connected from other parts.)
  - Measure using IPM terminals.

★ Conforming part resistance value (measure with an analog tester)

Tester terminals								
+	P				NU			
-	U	V	W	NU	U	V	W	P
Resistance value (ohm)	1 k to 5 k	1 k to 5 k	1 k to 5 k	5 k to 10 k	100 k to ∞	100 k to ∞	100 k to ∞	100 k to ∞

Tester terminals								
-	P				NU			
+	U	V	W		U	V	W	
Resistance value (ohm)	100 k to ∞	100 k to ∞	100 k to ∞		1 k to 5 k	1 k to 5 k	1 k to 5 k	

- Excepting the parts of “100 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

Tester terminals								
+	HIC+				HIC-			
-	U	V	W	HIC-	U	V	W	HIC+
Resistance value (ohm)	1 k to 10 k	1 k to 10 k	1 k to 10 k	5 k to 20 k	20 k to ∞	20 k to ∞	20 k to ∞	20 k to ∞

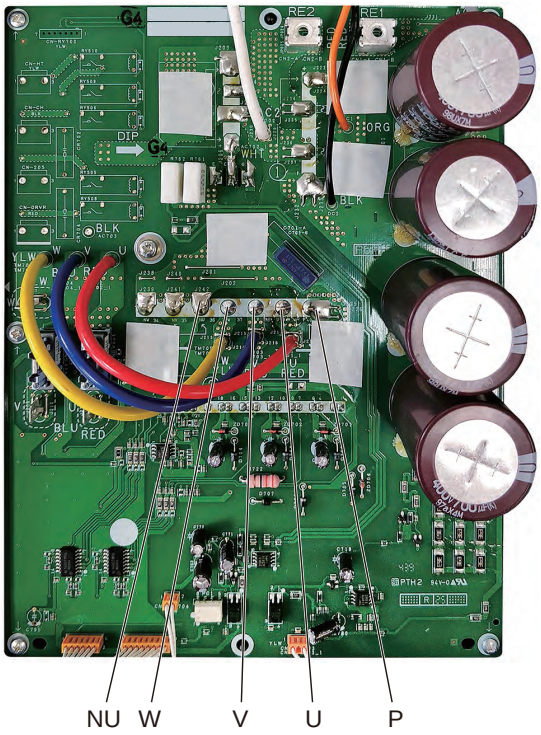
Tester terminals								
-	HIC+				HIC-			
+	U	V	W		U	V	W	
Resistance value (ohm)	20 k to ∞	20 k to ∞	20 k to ∞		1 k to 10 k	1 k to 10 k	1 k to 10 k	

- Excepting the parts of “20 k to ∞ ”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

For Single-Phase Outdoor Unit HIC PCB

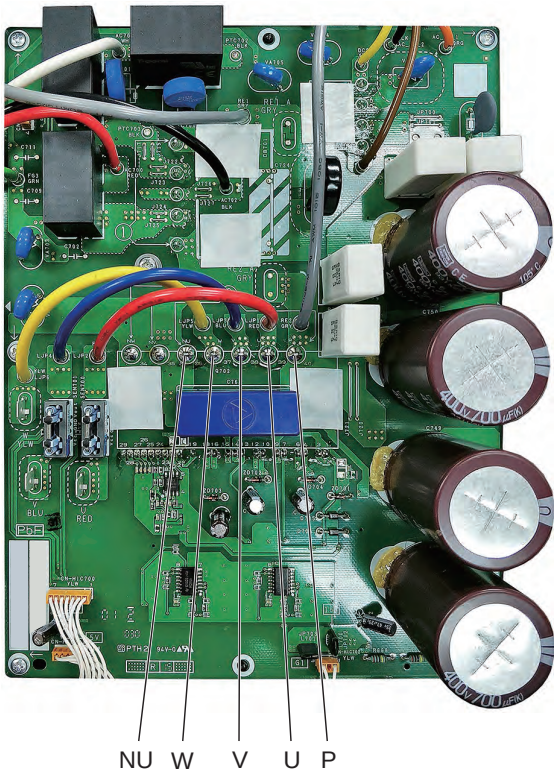
■ **HIC-PCB : ACXA73-33940 (U-100PZ3E5)**

■ **HIC-PCB : ACXA73-33960 (U-125PZ3E5, U-140PZ3E5)**



For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-33980 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**



L10 Outdoor Unit Capacity not Set or Invalid

1. Error Detection Method

It is judged an error when outdoor unit capacity not yet setup or systematically unauthorized setting.

2. Error Diagnosis

1 Check the control PC board	1-1	Was EEPROM replaced when PC board was replaced?

L13 Indoor Unit Type Setting Error

1. Error Detection method

- Discordance model(s) between outdoor and indoor units are detected.

1 Discordance Unit	1-1	Are models for outdoor and indoor units matched respectively? (Ex: Are multiple indoor units connected to commercial outdoor units?)	Yes	2-1
			No	Replace indoor units.
2 Installation Failure	2-1	Check the indoor unit's motor valve with the remote control detailed settings mode (2C code) and commercial indoor unit is set to "2" and multiple indoor unit is "0".	Yes	3-1
			No	Change installation.
3 Operating Wires for Indoor & Outdoor Units	3-1	Check whether or not indoor and outdoor unit operating wires are short circuit, disconnection, loose connection or earth fault.		

L18 4-Way Valve Operation Failure

1. Error Detection method

It is judged an error when during heating operation (Comp. ON), the highest detected temperature at an outdoor unit heat exchanger (C1) was 20°C or more above the outdoor air temperature (Air Temp.) continuously for 5 minutes or longer.

2. Error Diagnosis

1 PC board wiring	1-1	Is the connector wired from the 4-Way valve plugged in the CN-HOT or CN-HOT2 connector on the CR PC board properly?	Yes	1-2
			No	Correct connector
	1-2	Has the 4-Way valve wiring become opened?	Yes	Correct wiring
			No	1-3
	1-3	Is the wire from the coil for controlling the 4-Way valve firmly connected to the 4-Way valve?	Yes	2-1
			No	Correct connector
2 4-Way valve	2-1	During heating mode (Comp. ON), insert and remove the connector wired from the 4-Way valve into or from CN-HOT or CN-HOT2 connector on the CR PC board. At the same time, does the ON & OFF sounds occur from the 4-Way valve?	Yes	2-2
			No	Replace CR PC board
	2-2	During heating mode (Comp. ON), does the alarm code L18 reproduce for 5 minutes or longer after insertion and removal of CN-HOT or CN-HOT2 connector wired from the 4-Way valve connector on the CR PC board?	Yes	2-3
			No	See what happens
	2-3	The parts inside the 4-Way valve might have fixed at the cooling side. Replace the 4-Way valve		

P03 Compressor Discharge Temperature Trouble

1. Error Detection method

- When the discharge temperature is over 103°C.

2. Error Diagnosis

1 Adjustment to refrigerant charge	1-1	Not additional refrigerant charged	Yes	Additional refrigerant charge
			No	2-2
	1-2	Tends to have insufficient refrigerant charge in the system.	Yes	Adjust the refrigerant amount
			No	Replace CR board
2 Blockage in refrigerant circuit	2-1	Service valve inside the outdoor unit closed	Yes	Open service valve
			No	2-2
	2-2	Are the tubes clogged?	Yes	Avoid clogging
			No	2-3
	2-3	Is the outdoor unit's electronic control valve operating correctly? (Check for debris clogging the electronic control valve, a problem with the electronical coil and / or the control PC board.)	Yes	2-4
			No	Replace the electronic control valve
	2-4	Is it observable difference in status of the dew or frost between the strainer's primary and secondary sides?	Yes	Replace the strainer
			No	Replace CR board

P04 High Pressure Trouble

1. Error Detection Method

It is judged an error if the internal circuit of the high pressure switch is dead.
The electronic circuitry of the high pressure switch is cut off if the pressure at the pressure sensor port of the high pressure switch reaches 4.15 MPa. Once it is cut off, it remains cut off until the pressure drops to 3.05 MPa.

- The high pressure switch is malfunctioning.
- Service valve inside the outdoor unit closed
- There is a short air circuit through the outdoor unit's heat exchanger. (when cooling)
- The outdoor unit's fan is broken. (when cooling)
- The outdoor unit's heat exchanger is clogged. (when cooling)
- There is a short air circuit at the indoor unit. (when heating)
- The filter of the indoor unit is clogged. (when heating)
- The fan of the indoor unit is broken or the fan motor is malfunctioning. (when heating)
- The refrigerant circuit is closed and the high pressure is increasing abnormally high. (solenoid valve or expansion valve not activated, a stuck check valve, etc.)
- Refrigerant overcharged.
- Nitrogen or air contaminated in the refrigerant system

2. Error Diagnosis

1 High pressure switch	1-1	The socket of the high pressure switch is securely inserted in the PC board. The wiring is not opened.	Yes	1-2
			No	Correct connection and / or wiring
	1-2	Even if parts near the high pressure switch are shaken quite a lot, the high pressure cut off will be activated. Even if the covering is in good condition, in several cases vibration has caused wiring inside to open.	Yes	Replace the high pressure switch (wiring)
			No	2-1
2 Service valve	2-1	Service valve inside the outdoor unit closed	Yes	Open the service valve
			No	2-2
	2-2	There is an extreme difference in temperature in / out of the service valve.	Yes	2-3
			No	3-1
	2-3	Check the flare connection, someone may have forgotten to remove the bonnet. If there is a problem within the service valve, replace the valve.		
3 Problem around the heat exchanger	3-1	While cooling is operating an alarm is occurred.	Yes	3-2
			No	3-5
	3-2	The intake temperature (ambient temperature) of the outdoor unit's heat exchanger is above 43°C.	Yes	Prevent air short circuit
			No	3-3
	3-3	The outdoor unit's heat exchanger is clogged.	Yes	Clean the heat exchanger
			No	3-4
	3-4	Check whether the outdoor unit fan is normal or if the sockets are firmly pressed onto the plugs on the outdoor PC board, as well as if any wiring is opened. Are these checking finished without fail?	Yes	4-1
			No	Replace the outdoor unit fan. Correct connection and / or wiring
	3-5	While heating is operating an alarm is occurred.	Yes	3-6
			No	4-1

3 Problem around the heat exchanger	3-6	The intake temperature (ambient temperature) of the indoor unit is above 36°C.	Yes	Prevent air short circuit
			No	3-7
	3-7	The filter of the indoor unit is clogged.	Yes	Clean the filter
			No	3-8
	3-8	The fan of the indoor unit is broken or the fan motor is faulty.	Yes	Replace the indoor fan (motor)
			No	4-1
4 Blockage in the refrigerant circuit	4-1	Is the outdoor unit's electronic control valve operating correctly? (Check for debris clogging the electronic control valve, a problem with the electronical coil and / or the control PC board.)	Yes	4-3
			No	Repair the electronic control valve of the outdoor unit
	4-2	The indoor unit's expansion valve is operating correctly. (check for debris clogging the valve, a problem with the electronical coil and / or the control PC board)	Yes	4-3
			No	Repair the expansion valve of the indoor unit
	4-3	If an alarm is occurred with the high pressure below 4.15 MPa, with the pressure measured as displayed by the manifold gauge, check the check valve in the compressor discharge line. Are these checking finished without fail?	Yes	4-4
			No	Replace the check valve in the compressor discharge line
	4-4	The electronic control valve is faulty. In systems where the solenoid valve kits and the ice thermal storage tank are connected, check these solenoid valves.	Yes	Replace the electronic control valve and / or solenoid valve.
			No	5-1
5 Overcharging	5-1	Error occurs when the system is operating in cooling mode.	Yes	5-3
			No	5-2
	5-2	Error occurs when the system is operating in heating mode.	Yes	5-4
			No	5-5
	5-3	An alarm is occurred with the high pressure at 4.15 MPa, with the pressure measured either as displayed by the monitoring software or with a manifold gauge, at which time the temperature of liquid in the outdoor unit's heat exchanger is detected to be at the temperature of the outside air.	Yes	5-5
			No	Contact the service representative
	5-4	An alarm is occurred with the high pressure at 4.15 MPa, with the pressure measured either as displayed by the monitoring software or with a manifold gauge, at which time the temperature of liquid in the indoor heat exchanger is detected to be at room temperature (intake temperature).	Yes	5-5
			No	Contact the service representative
	5-5	The system may be overcharged. Check how much refrigerant was added during installation. When a system is inspected for airtightness, it is seldom that enough nitrogen has been expelled, so some remains in the circuit. In this case, it is necessary to collect the refrigerant and then recharge the system.		

P05 AC Power Supply Trouble

1. Error Detection Method

- Instantaneous blackout
- Zero-cross (waveform input of power supply) error
- DC voltage charge failure

2. Error Diagnosis

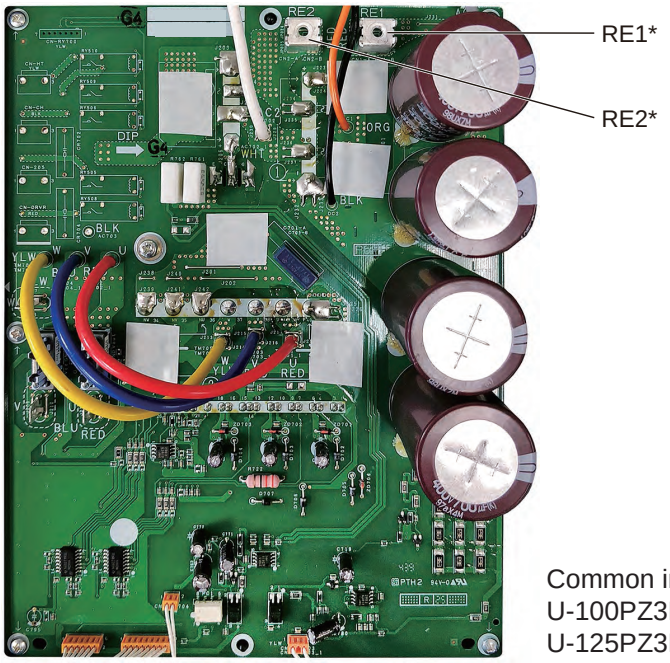
Note : The work involved in diagnosing each of the items is extremely dangerous, so turn the power off at the breaker before performing the tests.

1 Check the power supply & the wiring	1-1	Is the voltage on each of the terminal boards within ±10% of the rated voltage?	Yes	1-3 : Single-phase model 1-2 : 3-phase model	
			No	Check for open circuit and the voltage at the breaker. If a problem is found, fix it and check again.	
	1-2	Power wiring L1 and L3 are connected.		Yes	Correct wiring
				No	1-3
	1-3	Turn the power back on and check again. Is the alarm triggered again?		Yes	2-1
				No	3-1
2 Check the outdoor unit HIC PC board	2-1	Are the wires (RE1, RE2) from the reactor firmly installed? Are the wires also connected to the side of the reactor?		Yes	2-2
				No	Correct wiring
	2-2	Turn the power back on and check again. Is the alarm triggered again?		Yes	Replace the outdoor unit HIC PC board.
				No	3-1
3 Final check	3-1	There may be a instantaneous blackout failure. If there is nothing abnormal, see what happens.			

For Single-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-33940 (U-100PZ3E5)**

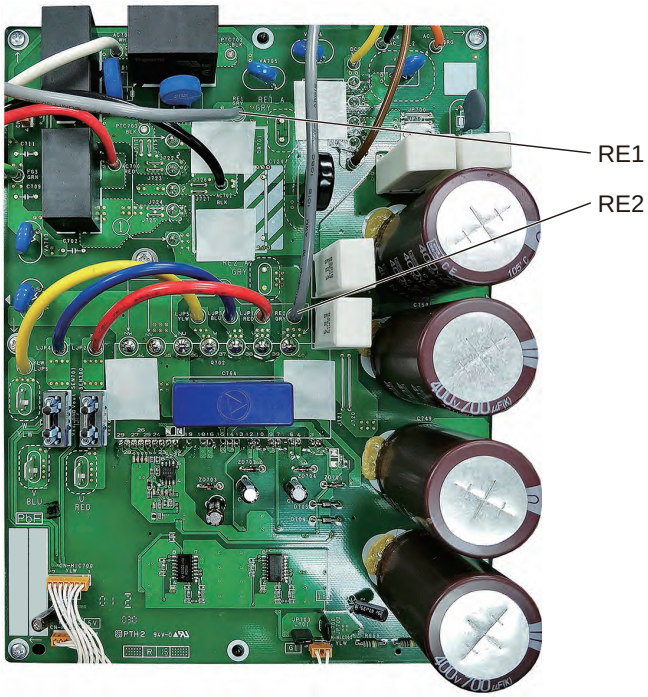
■ **HIC-PCB : ACXA73-33960 (U-125PZ3E5, U-140PZ3E5)**



Common in RE1 and RE2
U-100PZ3E5 : Plug-in type
U-125PZ3E5, U-140PZ3E5 : Fastening screw type

For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-33980 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**



P13 Alarm Valve Open

1. Error Detection Method

Detection is performed only in the test run. When once detected or the test run finished without any error, the second detection will not be done.

In case of forgetting to open a valve, P04 (high-pressure switch operational alarm) is occasionally preceded due to the following conditions.

- The status of small temperature change of the operating indoor unit continues for the first 7 minutes since the cooling test run has started.

2. Error Diagnosis

1 Service valve	1-1	Service valve inside the outdoor unit closed	Yes	Open the service valve
			No	2-1
2 Adjustment to refrigerant change	2-1	Not additional refrigerant charged	Yes	Additional refrigerant charge
			No	3-1
3 Blockage in refrigerant circuit	3-1	Are the tubes clogged?	Yes	Avoid clogging
			No	3-2
	3-2	Is the outdoor unit's electronic control valve operating correctly? (Check for debris clogging the electronic control valve, a problem with the electronical coil and / or the control PC board.)	Yes	3-3
			No	Replace the electronic control valve
	3-3	As the second detection is not done, restart and see what happens if there is no error.		

P15 Insufficient Gas Level Detected

1. Abnormal Detection Method

Alarm occurs in the following cases:

- Compressor's current value shows lower than a certain value.
- Compressor's discharge temperature exceeds 95°C.
- Electronic expansion valve is fully opened.
- The difference between indoor unit heat exchanger temperature and intake temperature is less than 4K.

2. Error Diagnosis

1 Adjustment of refrigerant amount	1-1	Insufficient gas level (Check whether or not pressure level is normal.)	Yes	Recharge with additional refrigerant.
			No	1-2
	1-2	Check leakage of refrigeration (leak test)	Yes	Replace leaking part with a new one.
			No	See what happens.

P16 Compressor Overcurrent Trouble

1. Meaning of Alarm

- Secondary current effective value detected the overcurrent (trip current value).

Type		PZ3					
Model name (U-)		100PZ3E5	125PZ3E5	140PZ3E5	100PZ3E8	125PZ3E8	140PZ3E8
Trip current value	Cooling	17.5A	19.5A	19.5A	11.5A	13.0A	13.0A
	Heating	17.5A	19.5A	19.5A	11.5A	13.0A	13.0A

2. Check of content

0 Multiple factors	0-1	Replaced the compressor (added oil, if it was necessary) but it occurred again immediately.	Yes	7-1
			No	-
	0-2	Replaced the board, but it occurred again immediately.	Yes	Replace compressor along with adding oil, then recheck from 1-1
			No	-
1 Power Source	1-1	Power cord connections are loose.	Yes	Correct the wiring
			No	1-2
	1-2	Rated power voltage is not within ±10%.	Yes	Test the power supply
			No	1-3
	1-3	Extreme fluctuations in voltage.	Yes	Test the power supply
			No	1-4
	1-4	An open phase state is observed.	Yes	Test the power supply
			No	2-1
2 Board wiring	2-1	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections on the CR board and / or in the connections of components that are connected by wiring from the CR board.	Yes	Correct
			No	2-2
	2-2	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of outdoor board(s) that are connected by wiring from the CR board.	Yes	Correct
			No	2-3
	2-3	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of outdoor board(s) that are connected by wiring from the HIC board.	Yes	Correct
			No	2-4
	2-4	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC boards connected by wiring from the CR board.	Yes	Correct
			No	2-5
	2-5	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC board(s) that are connected by wiring from the outdoor board.	Yes	Correct
			No	2-6
	2-6	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC board(s) that are connected by wiring to a compressor.	Yes	Correct
			No	3-1

3 Compressor wiring	3-1	Disconnections and / or miswiring are observed in the connecting location of the compressor terminals.	Yes	Correct
			No	3-2
	3-2	Conditions such as burned terminal covers and / or discolored terminals are observed in the connecting location of the compressor terminals.	Yes	Eliminate looseness by changing the terminals, or crimping the terminals again.
			No	4-1
4 Check the situation	4-1	Outdoor air intake temperature is high.	Yes	Take measures
			No	4-2
	4-2	May be caused by poor outdoor unit air flow (dirty or clogged heat exchanger, blocked discharge port, etc.)	Yes	Correct
			No	4-3
	4-3	Air short circuit has occurred. This is a phenomenon when discharged air (exhaust heat) from the outdoor unit is drawn back into the suction vent.	Yes	Prevent air short circuit
			No	4-4
	4-4	Indoor air intake temperature is high.	Yes	Take measures
			No	4-5
	4-5	The filter of the indoor unit is clogged.	Yes	Clean the filter
			No	4-6
	4-6	Air short circuit has occurred. This is a phenomenon when discharged air (exhaust heat) from the indoor unit is drawn back into the suction vent.	Yes	Prevent air short circuit
			No	5-1
5 Check operation	5-1	Possible to operate.	Yes	5-2
			No	6-1
	5-2	Operating pressure is affected by pressure overload.	Yes	5-3
			No	5-4
	5-3	Tends to have an overcharge of refrigerant in the system.	Yes	Adjust the amount of refrigerant
			No	5-4
	5-4	Tends to operate for a long time turning gas back into liquid.	Yes	Check the operation of functional parts
			No	5-5
	5-5	Tends to have insufficient refrigerant charge in the system.	Yes	Adjust the amount of refrigerant
			No	5-6
	5-6	Even though the high pressure saturation temperature is 43°C or less, the secondary current of the inverter is high. (The frequency (Hz) ends up dropping due to the current.)	Yes	Replace the compressor
			No	See what happens.
6 Check history	6-1	Dividing the outdoor EEPROM INV operation time by the number of times oil was supplied to the system yields 3 hours or less.	Yes	6-2
			No	6-2
	6-2	There is a history of H31 in the pre-trip counter of the outdoor EEPROM alarm history.	Yes	Replace the compressor and add oil. However, if 6-1 was “no”, it is not necessary to add oil.
			No	7-1
7 Check the HIC boards	7-1	The results of HIC board IPM Pass / Fail Tests show the outside the range of the resistance of a conforming part listed in the next page.	Yes	Replace HIC board
			No	8-1

8 Check the compressor	8-1	The compressor is causing a failure in the insulation.	Yes	Replace the compressor
			No	8-2
	8-2	The winding resistance of the compressor is abnormal. See “5-3. (3) Coil Resistance of Compressor ”.	Yes	Replace the compressor
			No	9-1
9 Check the HIC PC boards	9-1	Replace the HIC PC board and operate the unit. (Apply putty and screws must not be loose) Does it operate normally?	Yes	See what happens.
			No	10-1
10 Check the outdoor unit main PC board	10-1	Replace the control PC board and operate the unit.	See what happens.	

- (Check content of 7) The test check of the HIC board is only a check on the output level, so the input stage may not be working.
- With the filter board broken, alarm P16 may not be triggered.
- **HIC board IPM Pass / Fail Tests**
  - Measure with an analog tester. (Set to the k ohm range.)
  - Measure the board by itself. (Remove wires connected from other parts.)
  - Measure using IPM terminals.

★ Conforming part resistance value (measure with an analog tester)

Tester terminals								
+	P				NU			
-	U	V	W	NU	U	V	W	P
Resistance value (ohm)	1 k to 5 k	1 k to 5 k	1 k to 5 k	5 k to 10 k	100 k to ∞	100 k to ∞	100 k to ∞	100 k to ∞

Tester terminals								
-	P				NU			
+	U	V	W		U	V	W	
Resistance value (ohm)	100 k to ∞	100 k to ∞	100 k to ∞		1 k to 5 k	1 k to 5 k	1 k to 5 k	

- Excepting the parts of “100 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

Tester terminals								
+	HIC+				HIC-			
-	U	V	W	HIC-	U	V	W	HIC+
Resistance value (ohm)	1 k to 10 k	1 k to 10 k	1 k to 10 k	5 k to 20 k	20 k to ∞	20 k to ∞	20 k to ∞	20 k to ∞

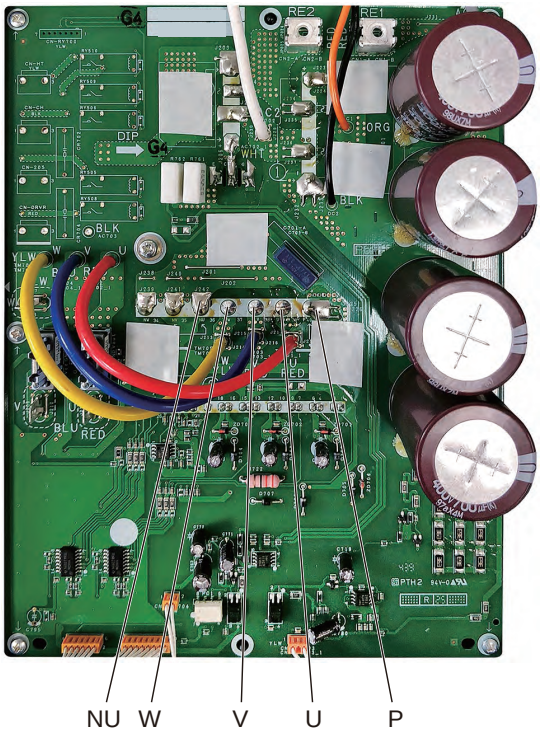
Tester terminals								
-	HIC+				HIC-			
+	U	V	W		U	V	W	
Resistance value (ohm)	20 k to ∞	20 k to ∞	20 k to ∞		1 k to 10 k	1 k to 10 k	1 k to 10 k	

- Excepting the parts of “20 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

For Single-Phase Outdoor Unit HIC PCB

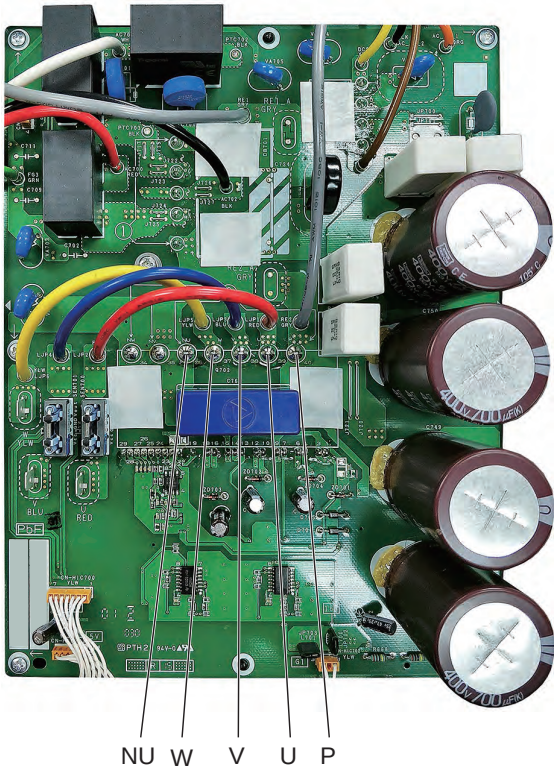
■ **HIC-PCB : ACXA73-33940 (U-100PZ3E5)**

■ **HIC-PCB : ACXA73-33960 (U-125PZ3E5, U-140PZ3E5)**



For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-33980 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**



P22 Outdoor Unit Fan Motor Trouble

1. Error Detection Method

- It is judged an error when the outdoor fan motor's rotating signal cannot be detected normally.

2. Error Diagnosis

1 Wiring	1-1	Is the connector "CN-FM" firmly connected to the outdoor control PC board (lock engaged)?	Yes	2-1
			No	Correct the connector connections
2 Outdoor fan motor	2-1	Disconnect the connector "CN-FM" from the outdoor control PC board and rotate the outdoor fan by hand; does it rotate freely? (Check the outdoor fan motor lock)	Yes	3-1
			No	Replace the outdoor fan motor
3 Outdoor control PC board	3-1	Turn the power on and run the unit again; is P22 triggered again? Or can you see or hear anything that is obviously wrong in its rotation?	Yes	3-2
			No	3-3
	3-2	Replace the outdoor control PC board. (If it fails to operate normally even after replacing the outdoor control PC board, replace the outdoor fan motor.)		
	3-3	If there is nothing particularly out of the ordinary, see what happens.		

P29 Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure

1. Error Detection Method

- Abnormal current is detected at DCCT before start-up.
- Start-up failed during overcurrent and / or step-out detected.
- Open-wire of compressor and / or backspin detected.
- Secondary current is not detected during INV compressor is running.

2. Error Diagnosis

1 Wiring	1-1	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC PC board(s) that are connected by wiring to a compressor. *1	Yes	Correct wiring connections
			No	1-2
	1-2	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of outdoor board(s) that are connected by wiring from the HIC PC board. *1	Yes	Correct wiring connections
			No	2-1
2 Compressor wiring	2-1	Disconnections and / or miswiring is observed in the connections of the compressor terminals. *1	Yes	Correct
			No	2-2
	2-2	Conditions such as burned terminal covers and / or discolored terminals are observed at the connectors of the compressor terminals. *1	Yes	Eliminate looseness by changing the terminals, or crimping the terminals again.
			No	3-1
3 Check the HIC PC boards	3-1	The results of the pass / fail tests for the following HIC PC board IPM show it to be outside the range of the resistance of a conforming part.	Yes	Replace the HIC board
			No	3-2
	3-2	Replace the HIC PC board and operate the unit. (Apply putty and screws must not be loose) Does it operate normally?	Yes	See what happens.
			No	4-1
4 Check the outdoor control PC board	4-1	Replace the control PC board and operate the unit.	See what happens.	

*1 Checking for looseness of compressor terminals by wiggling them has the adverse effect of loosening them, so do not do it.
Evaluate them by discoloration of wire insulation near the terminal.

- **HIC board IPM Pass / Fail Tests**
  - Measure with an analog tester. (Set to the k ohm range.)
  - Measure the board by itself. (Remove wires connected from other parts.)
  - Measure using IPM terminals.

★ Conforming part resistance value (measure with an analog tester)

Tester terminals								
+	P				NU			
-	U	V	W	NU	U	V	W	P
Resistance value (ohm)	1 k to 5 k	1 k to 5 k	1 k to 5 k	5 k to 10 k	100 k to ∞	100 k to ∞	100 k to ∞	100 k to ∞

Tester terminals							
-	P			NU			
+	U	V	W	U	V	W	
Resistance value (ohm)	100 k to ∞	100 k to ∞	100 k to ∞	1 k to 5 k	1 k to 5 k	1 k to 5 k	

- Excepting the parts of "100 k to ∞", it is acceptable if a small resistance value appears as a reference value unless the value is "0 = short-circuit".

Tester terminals								
+	HIC+				HIC-			
-	U	V	W	HIC-	U	V	W	HIC+
Resistance value (ohm)	1 k to 10 k	1 k to 10 k	1 k to 10 k	5 k to 20 k	20 k to ∞	20 k to ∞	20 k to ∞	20 k to ∞

Tester terminals							
-	HIC+			HIC-			
+	U	V	W	U	V	W	
Resistance value (ohm)	20 k to ∞	20 k to ∞	20 k to ∞	1 k to 10 k	1 k to 10 k	1 k to 10 k	

- Excepting the parts of "20 k to ∞", it is acceptable if a small resistance value appears as a reference value unless the value is "0 = short-circuit".

P31 Group Control Error

1. Error Detection Method

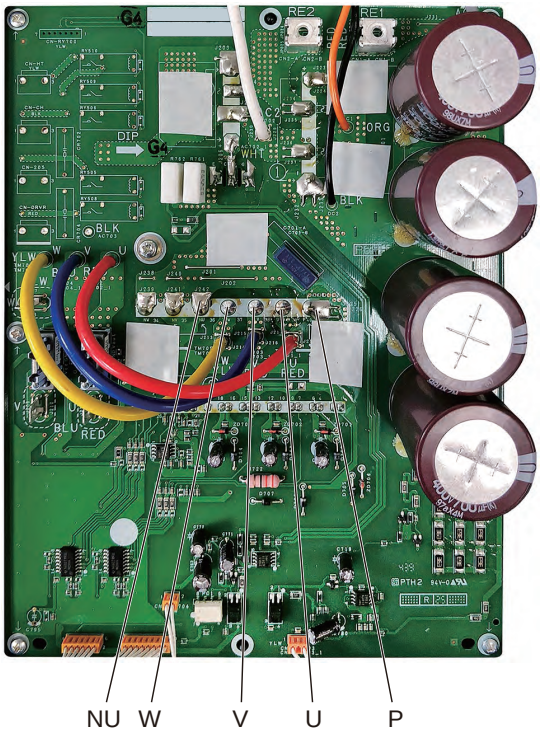
- Other indoor unit alarms within the group.

1 Other indoor unit	1-1	Survey the indoor unit that alarms other than “P31” in the indoor unit group and specify the causes of failure.

For Single-Phase Outdoor Unit HIC PCB

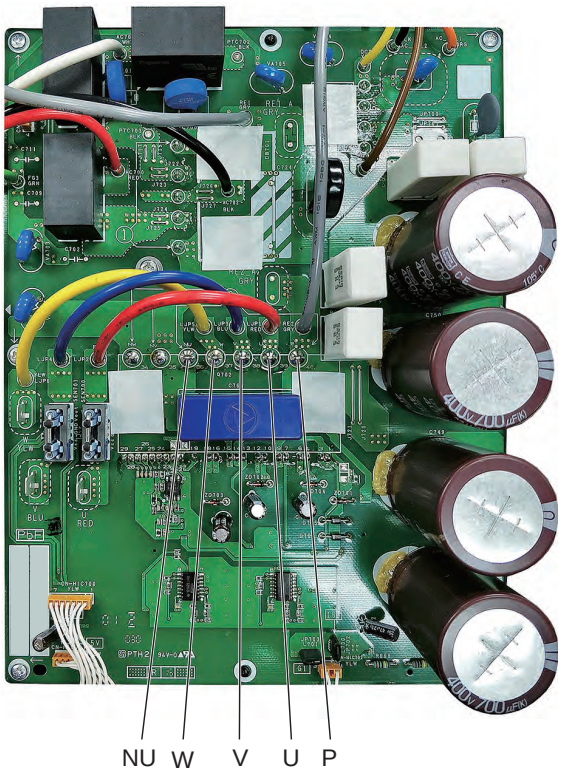
■ **HIC-PCB : ACXA73-33940 (U-100PZ3E5)**

■ **HIC-PCB : ACXA73-33960 (U-125PZ3E5, U-140PZ3E5)**



For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-33980 (U-100PZ3E8, U-125PZ3E8, U-140PZ3E8)**



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5-2-2-3. U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

Alarms for outdoor units

Alarm Code	Alarm Meaning
E04	Error in Indoor Unit Receiving Signal from the Outdoor Unit
E06	Outdoor Unit Failed to Receive Serial Communication Signals from Indoor Unit
E15	Auto Address Alarm (The total capacity of indoor units is too low.)
E16	Auto Address Alarm (The total capacity of indoor units is too high or the total number of indoor units is too many.)
E20	Connection Problem of Indoor / Outdoor Units.
F04	Compressor Discharge Temperature Sensor (TD) Trouble
F06	Inlet Temperature Sensor (C1) in Heat Exchanger Trouble
F07	Intermediate Temperature Sensor (C2) in Heat Exchanger Trouble
F08	Outdoor Air Temperature Sensor (TO) Trouble
F12	Compressor Inlet Suction Temperature Sensor (TS) Trouble
F31	Outdoor Unit Nonvolatile Memory (EEPROM) Trouble
H01	Primary (input) Overcurrent Detected
H02	PAM Trouble
H03	Primary Current CT Sensor (current sensor) Failure
H31	HIC Trouble
L10	Outdoor Unit Capacity not Set or Invalid
L13	Indoor Unit Type Setting Error
L18	4-Way Valve Operation Failure
P03	Compressor Discharge Temperature Trouble
P04	High Pressure Trouble
P05	AC Power Supply Trouble
P13	Alarm Valve Open
P15	Insufficient Gas Level Detected
P16	Compressor Overcurrent Trouble
P22	Outdoor Unit Fan Motor Trouble
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure
P31	Group Control Error

Symptoms and Parts to Inspect

Remote controller alarm display	Alarm contents	Judgement conditions	Eliminating condition of alarm	Judgement and correction
P03	Abnormal discharge temperature error • Discharge temp. detected at or above the specified value	Stops when temp. exceeds 103 °C. Alarm output on 5 pre-trips	Recovery at restart	1. Check refrigerant cycle (gas leak). 2.Trouble with electronic expansion valve 3.Check discharge temperature sensor (TD).
P05	CT disconnected or AC power supply error DC voltage charge failure	The current value transmitted from the microcomputer on the outdoor unit control substrate is low. When no AC power input for more than 30 seconds to 5 minutes : Single alarm	Recovery at restart	1. Check outdoor unit control PCB. 2. Lack of reactor wire 3. Check power frequency.
P15	Insufficient gas level detected.	• Discharge temperature is 95 °C or higher. • Electronic expansion valve is at Step 480. When the above has continued for 1 minute. Indoor air sucking due to body thermostat max (E1 or E2) - TA ≤ 4°C • Secondary current ≤ Current value of gas shortage determination	Recovery at restart	1.Check refrigerant cycle (gas leak). 2.Trouble with electronic expansion valve 3.Check outdoor unit valve opening.
L18	4-way valve operation failure • Judged after heating operating for 5 minutes consecutively.	The indoor unit heat exchanger temperature drops even though the compressor is switched on during the heating mode: To +20 °C ≤ C1 Pre-trip 1 time	Recovery at restart	1. Check 4-way valve. 2. Check 4-way valve wiring. 3. Check outdoor unit control PCB.
P04	High-pressure protection error	High pressure switched ON → OFF (Alarm is output when switch opened.) Pre-trip 4 times.	Recovery at restart	Overload operation of refrigerant cycle
P22	Outdoor unit fan motor trouble • Inverter protection circuit was activated, or lock was detected at outdoor unit fan motor.	Inverter stops after alarm is detected. Pre-trip 10 times	Recovery at restart	1.Position detection trouble. 2.Outdoor unit fan motor over-current Protection circuit is activated. • Check outdoor unit control PCB. • See outdoor unit fan judgement methods.
P29	Lack of INV compressor wiring, INV compressor actuation failure, DCCT failure	Inverter stops after alarm is detected. Alarm is output when inverter stops (pre-trip) consecutively 10 times.	Recovery at restart	1.Stops immediately even when operations restarted. • Layer short on the compressor 2.Check HIC circuit. • Wiring trouble
H31	HIC trouble	Pre-trip consecutively 10 times	Temperature dropped	Heat sink and PCB (HIC) • Contact trouble

E04 Error in Indoor Unit Receiving Signal from the Outdoor unit

1. Error Detection Method

When there is no communication within a 3-minute period from the outdoor unit. Or, judged an error when no reply comes from the outdoor unit.

- The outdoor unit is not turned on.
- When the power was turned on after auto address setting was completed, the number of indoor units had been changed.
- Forgot to turn on the indoor unit.
- The CHK pin and / or TEST pin on the indoor unit's control PC board are shorted.
- Forgot to install the nonvolatile memory (EEPROM) when replacing the indoor unit control PC board.
- Mistakenly set the indoor unit address to Not Set in the remote control's detailed setting mode.
- When indoor unit addresses are duplicated.
- There is a short, open, wrong contact or grounding of the indoor / outdoor control line*.
- There is an error in the receiving circuit on the signal output PC board (optional control PC board).
- Malfunctions of the outdoor unit
- The thermistor inside the indoor unit is grounded.
- The capacity setting is mismatched between indoor units and the outdoor unit.

2. Error Diagnosis

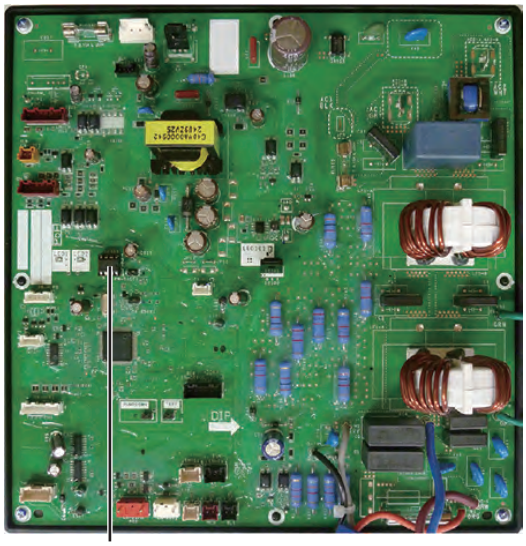
1 Power Source	1-1	Is / was the power to the outdoor unit cut off?	Yes	After turning the power on, wait three minutes
			No	1-2
	1-2	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor wiring connected correctly?	Yes	3-1
			No	Correct the wiring
3 Number and setting of indoor units	3-1	Was the number of indoor units increased or decreased after auto address setting was complete?	Yes	3-2
			No	3-3
	3-2	Conduct checks prior to auto address setting.		
	3-3	Check the indoor unit addresses from the remote control's detailed settings mode. Is it Not Set (99), or is the indoor unit's address duplicated?	Yes	3-2
			No	3-4
	3-4	Check the indoor unit capacity from the remote control's detailed settings mode. Does it match the capacity of outdoor unit?	Yes	4-1
			No	3-2
4 Indoor unit control PC board	4-1	Are the CHK pin and / or TEST pin on the indoor unit control PC board short-circuited?	Yes	Remove the short
			No	4-2
	4-2	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	4-3
			No	4-5
	4-3	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E04 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	4-4
			No	4-5
	4-4	Replace wireless remote control parts including wiring.		
	4-5	Is the LED on the indoor unit control PC board blinking?	Yes	4-6
			No	4-7
	4-6	The nonvolatile memory (EEPROM) on the indoor unit's control PC board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
	4-7	Are all the remote controllers of the other indoor units connected to that outdoor unit displaying E04?	Yes	Replace the outdoor unit both control board (CR/HIC)
			No	Replace the indoor unit control board

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

- Regarding the remote controller check, refer to the Reference Materials.
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit and / or replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit service board.

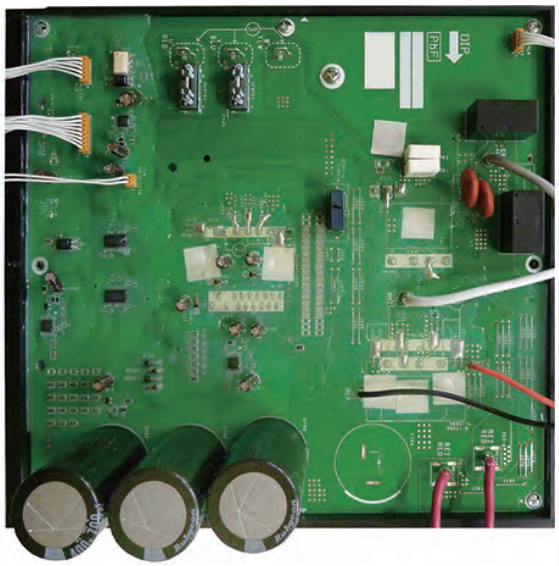
Outdoor Unit Control PCB (CR/HIC)

■ **CR-PCB : ACXA73-3552* (U-71PZH3E5)**

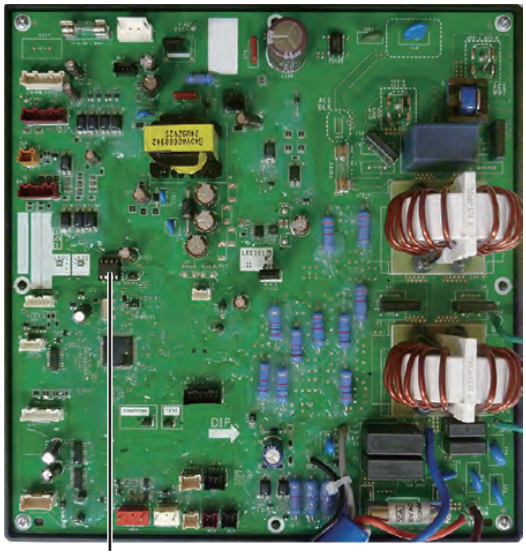


EEPROM

■ **HIC-PCB : ACXA73-3555* (U-71PZH3E5)**

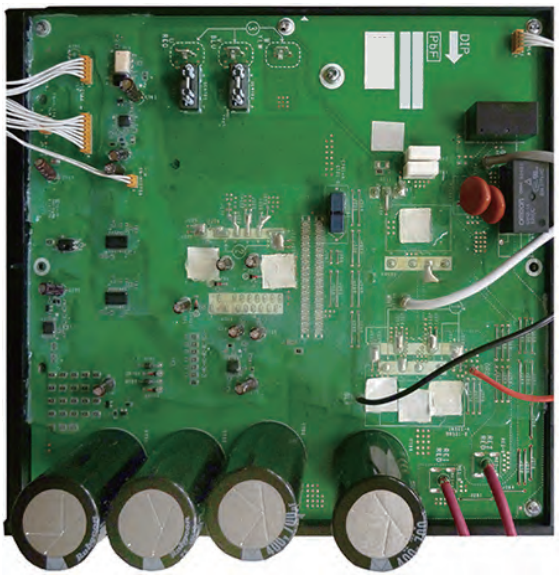


■ **CR-PCB : ACXA73-3551* (U-100PZH3E5)**

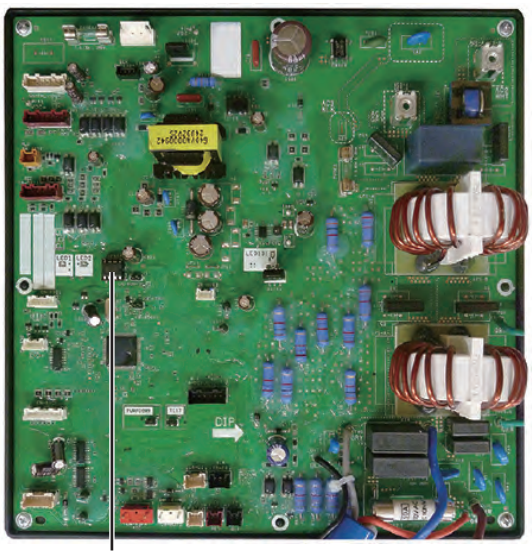


EEPROM

■ **HIC-PCB : ACXA73-3554* (U-100PZH3E5)**

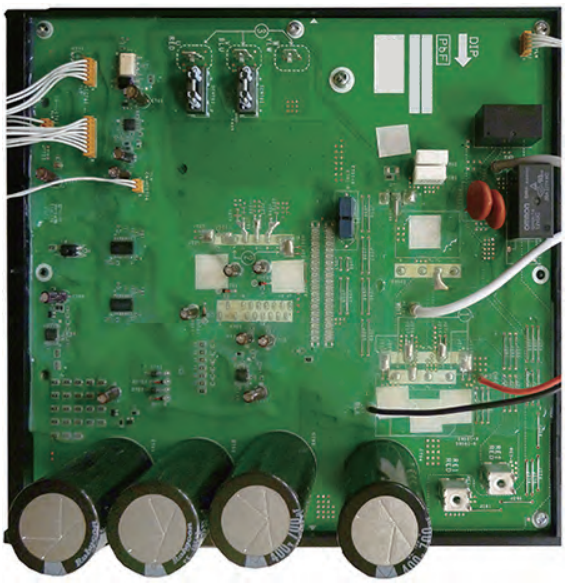


■ **CR-PCB : ACXA73-3550* (U-125PZH3E5, U-140PZH3E5)**



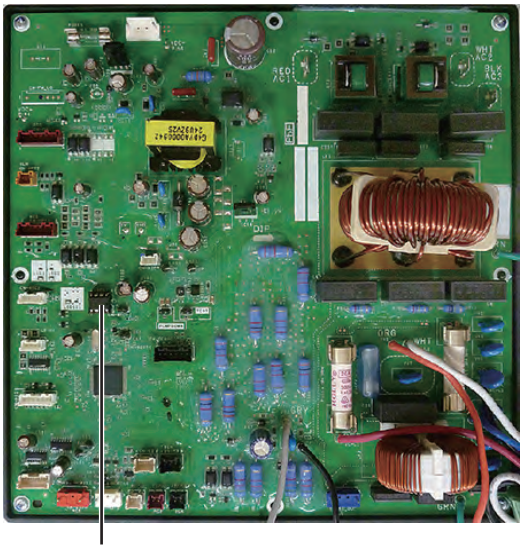
EEPROM

■ **HIC-PCB : ACXA73-3553* (U-125PZH3E5, U-140PZH3E5)**



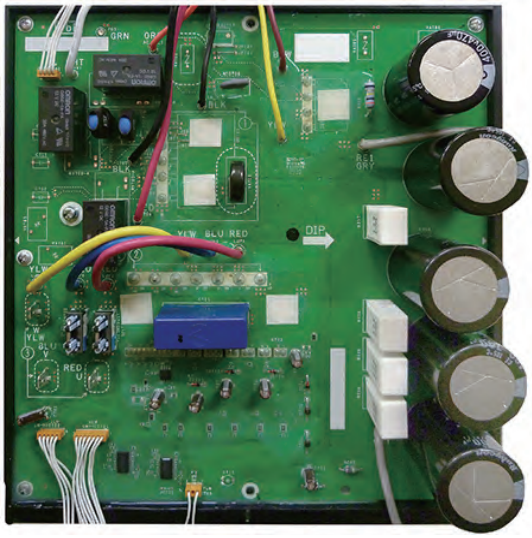
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■ CR-PCB : ACXA73-3557* (U-71PZH3E8)

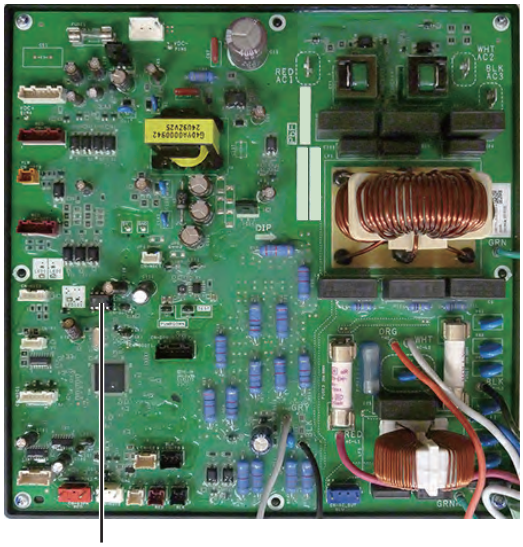


EEPROM

■ HIC-PCB : ACXA73-3559* (U-71PZH3E8)

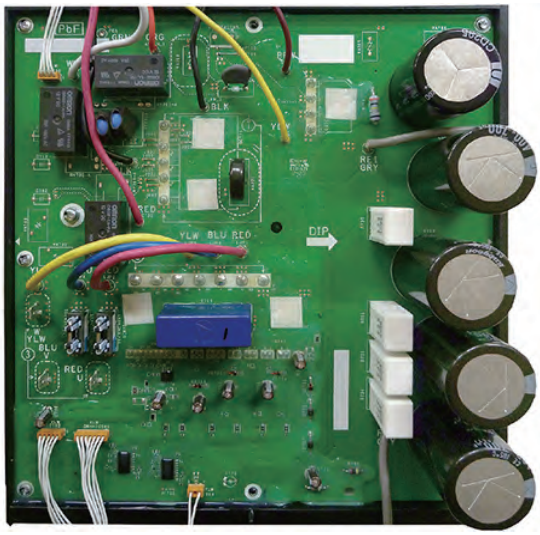


■ CR-PCB : ACXA73-3556* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)



EEPROM

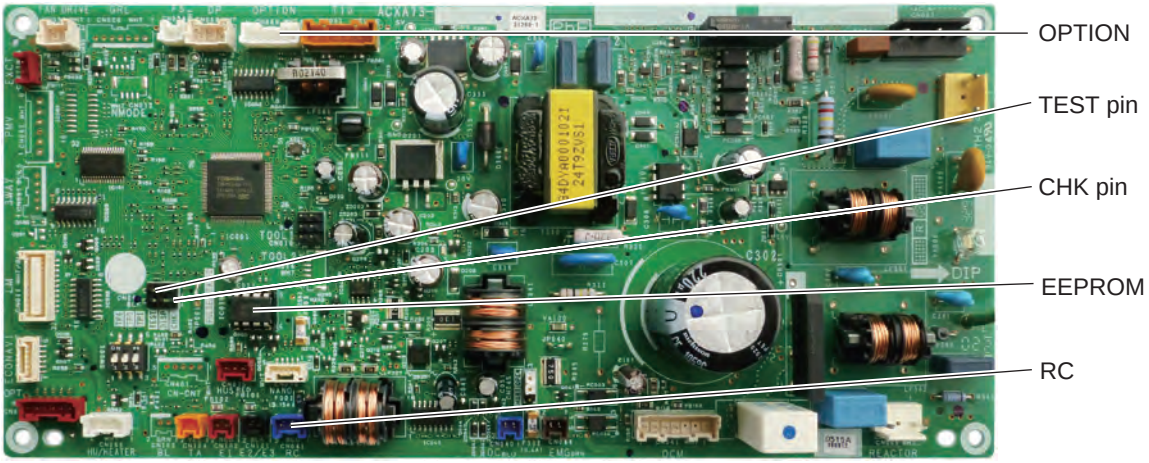
■ HIC-PCB : ACXA73-3558* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)



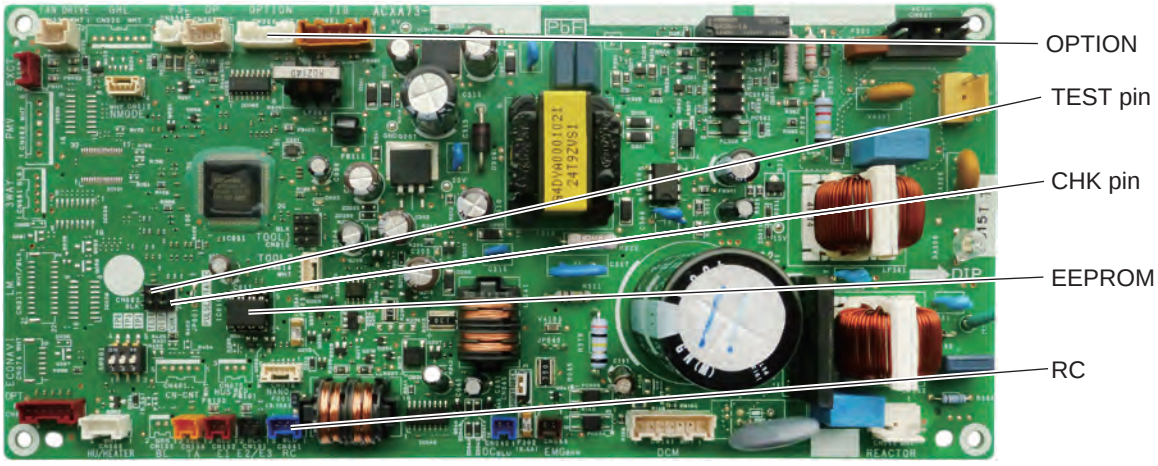
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Indoor Unit Control PCB

■ **ACXA73-3129* : 4-Way Cassette Type**

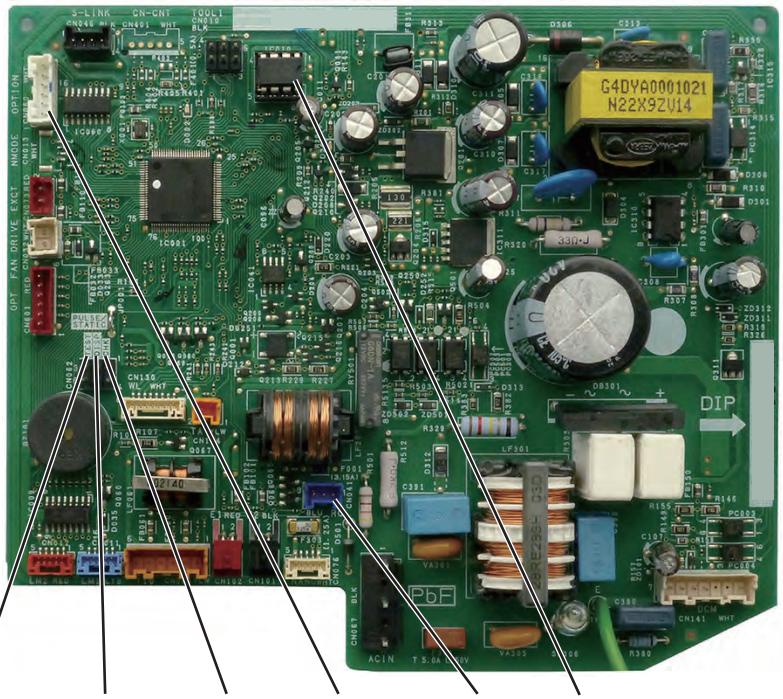


■ **ACXA73-3440* : Middle Static Pressure Duct Type**

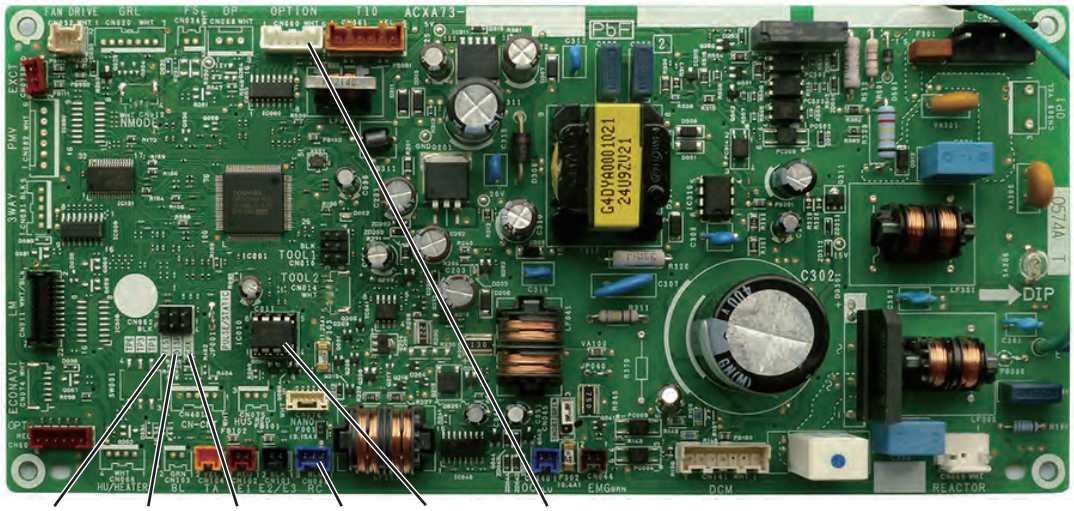


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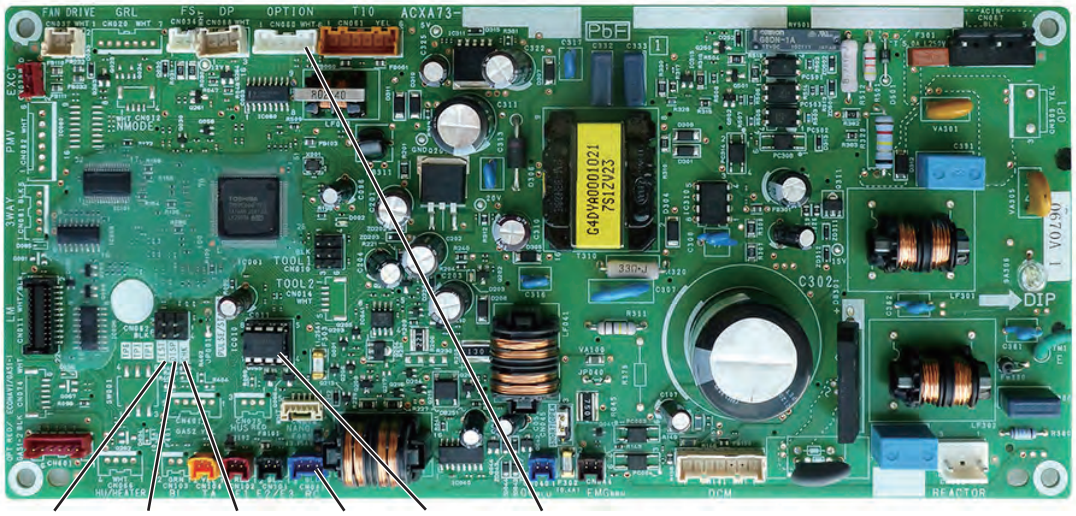
■ **ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board**



■ **ACXA73-3611* : Ceiling Type Indoor Unit Control Board**



■ **ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board**



E06 Outdoor Unit Failed to Receive Serial Communication Signals from Indoor Unit

(When indoor unit(s) are connected)

1. Error Detection Method

It is judged an error when there is no transmission (reply) from the indoor unit to the outdoor unit for a period of three minutes.

- The indoor unit is not turned on.
- The DISP pin of the indoor unit is shorted.
- There is a short, open, wrong contact or grounding of the indoor / outdoor control line*.
- The signal output control PC board (optional control PC board) inside the indoor unit has failed.
- The thermistor inside the indoor unit is grounded.

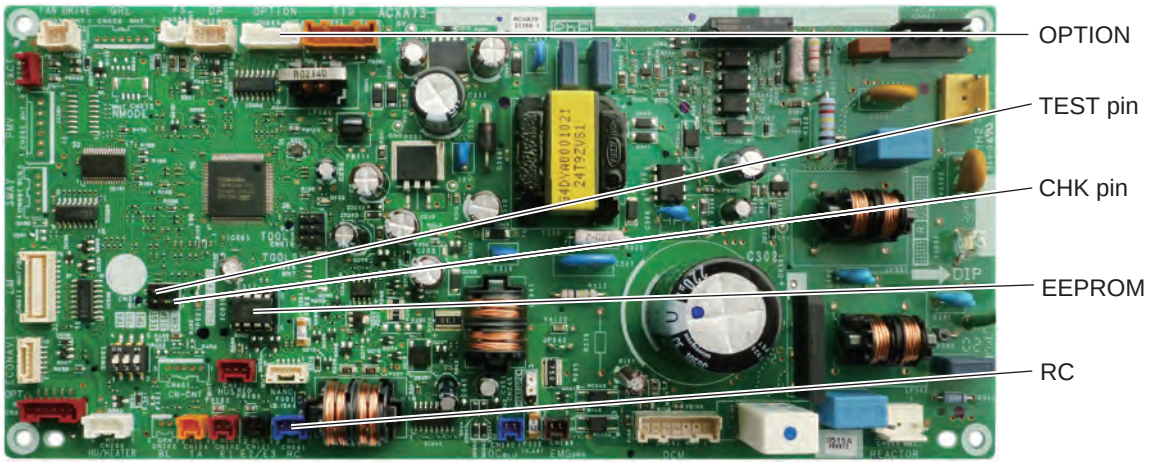
2. Error Diagnosis

1 Indoor unit power	1-1	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor control line* shorted, opened, grounded or has a wrong contact?	Yes	Correct the wiring
			No	3-1
3 Indoor units control PC board	3-1	Are the DISP pin and CHK pin on the indoor unit control PC board short-circuited?	Yes	Remove the short
			No	3-2
	3-2	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	3-3
			No	3-5
	3-3	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board, and see whether the E06 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	3-4
			No	3-5
	3-4	Replace wireless remote control parts including wiring.		
	3-5	Indoor unit control PC board failure → Replace board.		

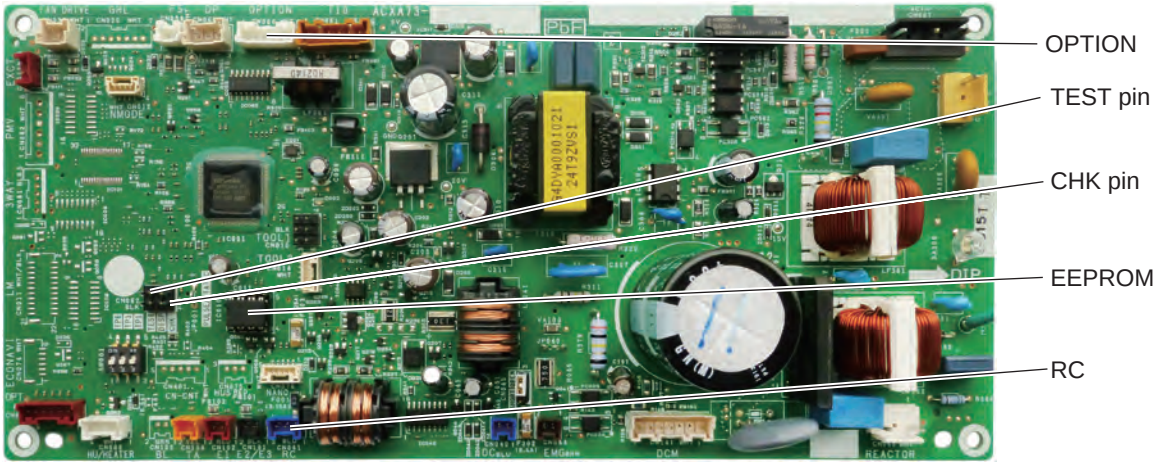
- For information on the procedures for replacing the indoor unit's control board, refer to the manual that is packaged with the indoor unit control PCB.

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

■ ACXA73-3129* : 4-Way Cassette Type

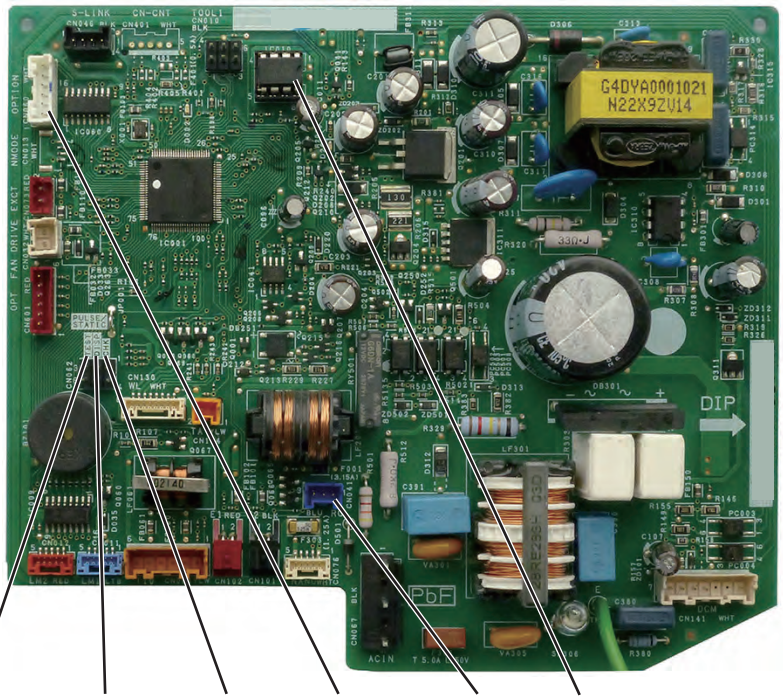


■ ACXA73-3440* : Middle Static Pressure Duct Type

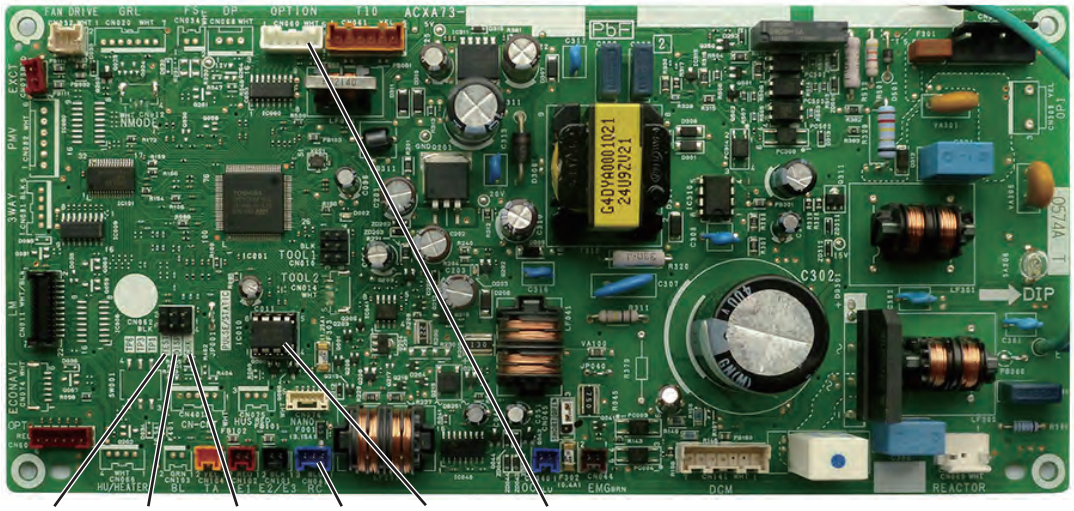


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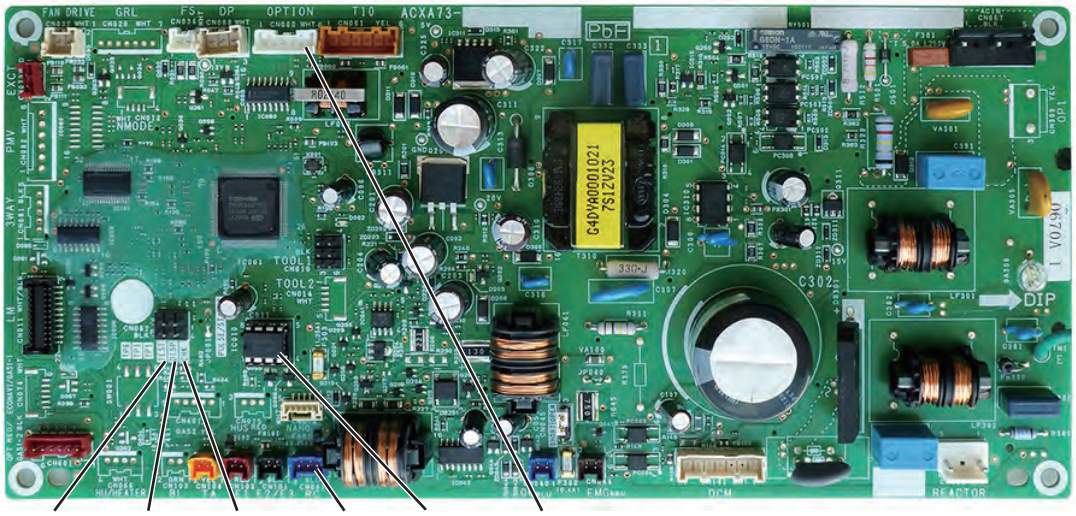
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



E15 Auto Address Alarm (The total capacity of indoor units is too low.)

1. Error Detection Method

Connecting indoor unit

It is judged an error the total capacity of indoor units replied by communication is lower than that of outdoor unit.

- The total capacity of indoor units is lower than that of outdoor unit
- Some indoor unit(s) are connected but power is not turned on
- The CHK pin (CN062 / CN071) and / or TEST pin (CN064) of the indoor unit is shorted when its power is turned on.

2. Error Diagnosis

1 Power Source	1-1	Is the indoor unit powered off?	Yes	Power on
			No	2-1
2 Indoor / outdoor wiring	2-1	Is the indoor / outdoor wiring connected correctly?	Yes	3-1
			No	Correct the wiring
3 Number of Indoor Units	3-1	Was the number of indoor units changed after auto address setting finished?	Yes	3-2
			No	4-1
	3-2	Conduct checks prior to auto address setting.		
4 Indoor unit control PC board	4-1	Be sure that the detailed setting items are made at factory setting. [U3, F3, K3, T3]	Yes	4-2
			No	Correct the setting Run the auto address
	4-2	Are the CHK pin and TEST pin on the indoor unit control board short-circuited?	Yes	Remove the short
			No	4-3
	4-3	Is the wireless remote controller connected to on the indoor unit's control PC board?	Yes	4-4
			No	4-6
	4-4	Disconnect the connector mentioned above on the control PC board of the indoor unit control PC board and see whether the E15 goes off after several minutes. (When doing so, if two remote controllers are being used and the wireless remote controller is the main remote controller, set the other remote controller as the main.)	Yes	4-5
			No	4-6
	4-5	Replace wireless remote control parts including wiring.		
	4-6	Is the LED blinking on the indoor unit's control PC board?	Yes	4-7
			No	5-1
	4-7	The nonvolatile memory (EEPROM) on the indoor unit's control board is either not installed, improperly installed or the nonvolatile memory is faulty. Correct this or after replacing the nonvolatile memory, write model data to it in the remote control detailed settings mode.		
5 Outdoor unit control PC board	5-1	Check all items under the section "Check Prior to Auto Address Setting".		

- **Factory setting**

Item code	Item	Value
11	Indoor unit capacity	0
12	System address	99
13	Indoor unit address	99
14	Group control address	99

NOTE

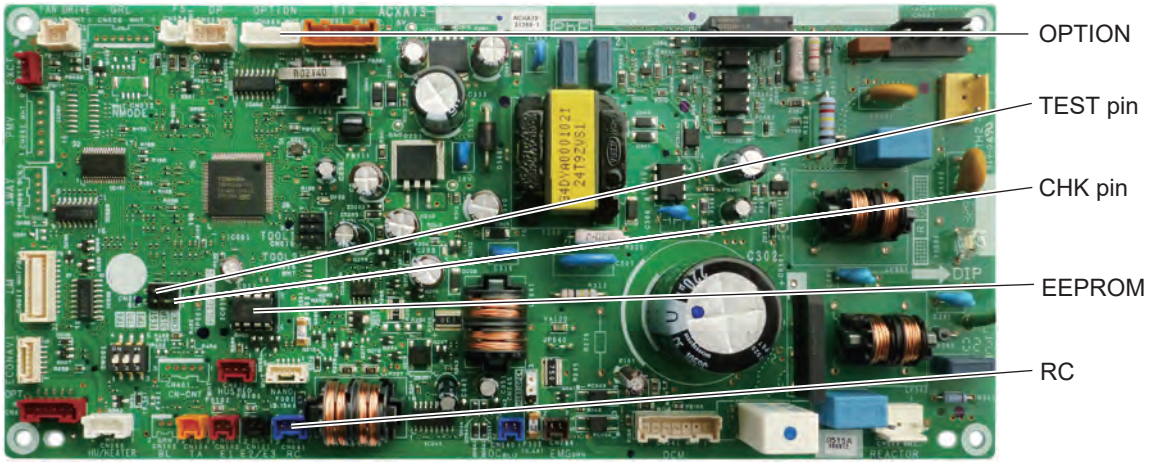
The Item code numbers 11, 12, 13 and 14 can automatically be changed to the appropriate settings from factory settings listed above by making the auto address settings according to the connected outdoor unit capacity and the number of indoor units.

If needed to reset the settings after once changed, return all the item codes to the factory shipment-time settings. It is necessary to set the auto address settings once again.

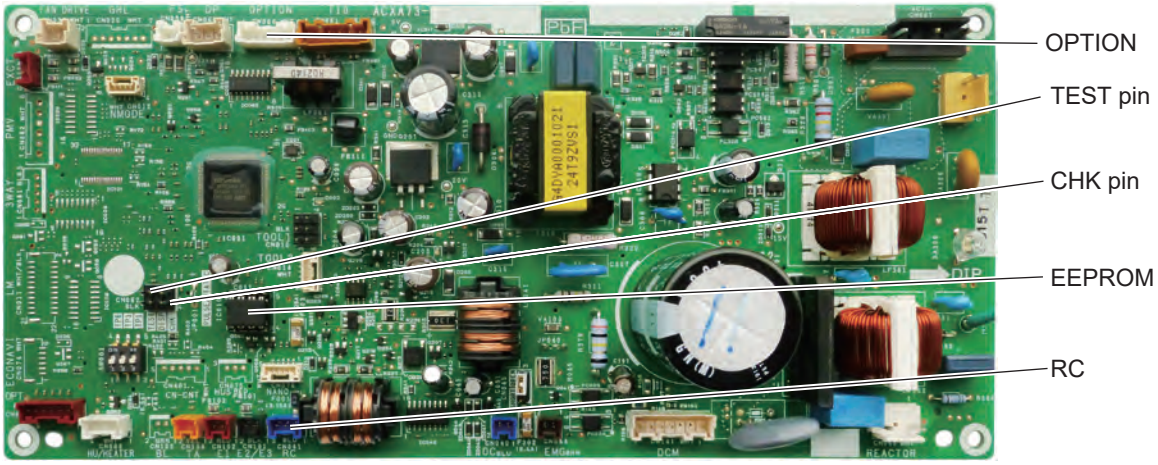
- For information on the procedures for replacing the nonvolatile memory (EEPROM) of the indoor unit, refer to the manual that is packaged with the indoor unit service board.
- For information on the remote control's detailed settings, see 7-3 and 7-4.
- The alarm also occurs when the indoor unit cannot be recognized (indoor unit only blackout, disconnection of indoor / outdoor control line*, etc.) during auto address setting.

  * indoor / outdoor control line* : Connection cable between outdoor and indoor unit

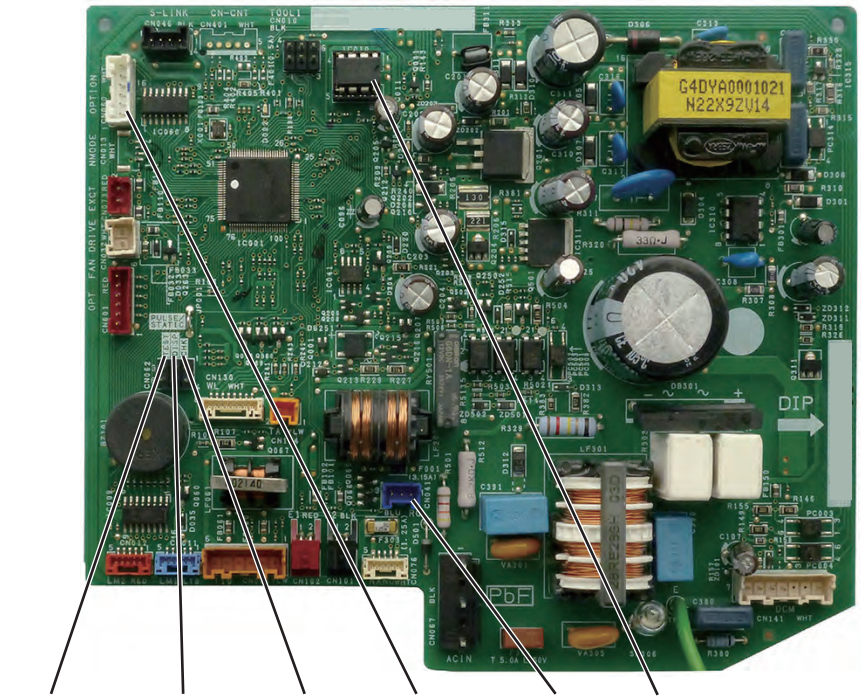
■ **ACXA73-3129* : 4-Way Cassette Type**



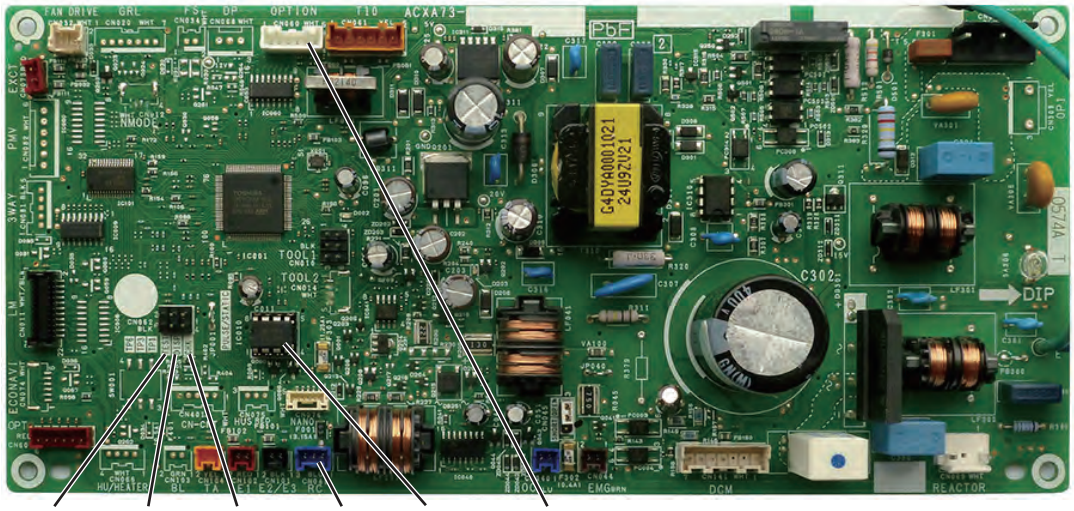
■ **ACXA73-3440* : Middle Static Pressure Duct Type**



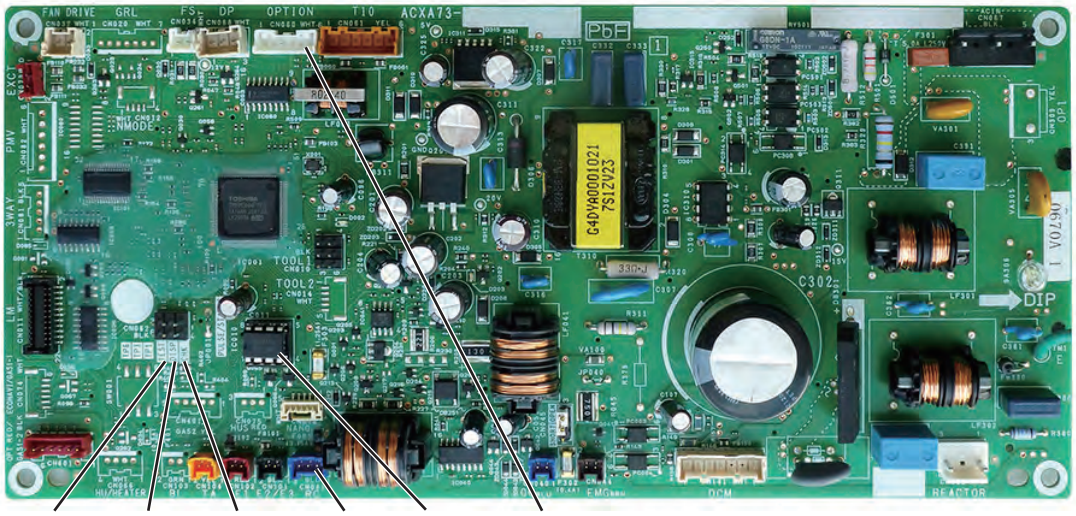
■ ACXA73-3671* : Wall Mounted Type Indoor Unit Control Board



■ ACXA73-3611* : Ceiling Type Indoor Unit Control Board



■ ACXA73-3565* : 4-Way Cassette 60 × 60 Type Indoor Unit Control Board



E16 Auto Address Alarm (The total capacity of indoor units is too high.)

1. Error Detection Method

It is judged an error the total capacity of indoor units is too high or the total number of indoor units is too many.

- The total capacity of indoor units is too high.
- The total number of indoor units is too many.
- When making group control of the different refrigerant system, the steps to turn on the systems one at a time have not been performed.

2. Error Diagnosis

1 Auto Address	1-1	Conduct checks prior to auto address setting.

E20 Auto Address Alarm (No indoor unit connected)

1. Error Detection Method

The outdoor unit detects an error at following cases during auto address setting.

- Indoor unit is not turned on.
- Indoor / outdoor control line* is disconnected and also detects an error in the following cases when the outdoor unit is turned on.
- Address(es) of indoor unit(s) are not assigned correctly.
- Capacity of indoor / outdoor units is mismatched.
- Total number of indoor units is too many.

2. Error Diagnosis

1 Indoor Unit	1-1	Are the address(es) of indoor unit(s) assigned correctly?		Yes	1-2
				No	Set its address
	1-2	Are the indoor units turned on?		Yes	1-3
				No	Power on
	1-3	Be sure that the indoor and outdoor units are connected with correct combination written in catalog.	Yes	1-4	
			No	Correct the connection	
	1-4	The indoor / outdoor control line* may be disconnected somewhere between the indoor unit(s) and the outdoor unit. Make sure the indoor / outdoor control line* is connected.			

* indoor / outdoor control line* : Connection cable between outdoor and indoor unit

F04 Compressor Discharge Temperature Sensor (TD) Trouble

1. Error Detection Method

It is judged an error based on the criteria listed below.

- Open circuit or Short circuit

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Sensor is correctly installed at holder side.	Yes	Replace sensor
			No	Correct and see what happens. 1-3
	1-3	Abnormal temperature exists even after replacing sensor.	Yes	2-1
			No	See what happens.
2 PC board	2-1	Resistance between connector pins on PC board is less than 1 k ohm	Yes	Replace PC board
			No	2-2
	2-2	Abnormal temperature exists even after replacing PC board.	Yes	3-1
			No	See what happens.
3 Operating status	3-1	Peripheral temperature of outdoor unit is over 48°C.	Yes	Correct
			No	3-2
	3-2	Tends to have insufficient refrigerant charge in the system.	Yes	Adjust the amount of refrigerant
			No	3-3
	3-3	Check noise.		

F06 Inlet Temperature Sensor (C1) in Heat Exchanger Trouble

1. Error Detection Method

- In case of open or short

2. Error Diagnosis

1 Sensor Trouble	1-1	Is the connector properly connected to PCB?	Yes	1-2
			No	Reconnect & check
	1-2	Is the resistor between the sockets infinity or 0Ω?	Yes	Replace sensor.
			No	2-1
2 Control PCB Failure	2-1	Outdoor unit control PCB failure Replace PCB with a new one.		

F07 Intermediate Temperature (C2) in Heat Exchanger Trouble

1. Error Detection Method

It is judged an error when open circuit or short circuit.

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Resistance between sockets is infinity or 0 ohm.	Yes	Replace sensor
			No	2-1
2 PC board	2-1	Replace PC board because of outdoor control PC board failure.		

F08 Outdoor Air Temperature Sensor (TO) Trouble

1. Error Detection Method

It is judged an error when open circuit or short circuit.

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Resistance between sockets is infinity or 0 ohm.	Yes	Replace sensor
			No	2-1
2 PC board	2-1	Replace PC board because of outdoor control PC board failure.		

F12 Compressor Inlet Suction Temperature Sensor (TS) Trouble

1. Error Detection Method

It is judged an error when open circuit or short circuit.

2. Error Diagnosis

1 Sensor	1-1	Sensor connector is connected to PC board properly.	Yes	1-2
			No	Reconnect and check
	1-2	Resistance between sockets is infinity or 0 ohm.	Yes	Replace sensor
			No	2-1
2 Outdoor control PC board	2-1	Replace PC board because of outdoor control PC board failure.		

F31 Outdoor Unit Nonvolatile Memory (EEPROM) Trouble

1. Error Detection Method

It is judged an error based on the criteria listed below.

- When power initially turned ON for the first time, nonvolatile memory (EEPROM) is not installed.
- Read values after writing onto nonvolatile memory (EEPROM) is inconsistent.

2. Error Diagnosis

1 PC board	1-1	Does EEPROM exist on the control PC board?	Yes	1-2
			No	Install EEPROM
	1-2	Is EEPROM installed properly? (Check: Bent IC pin or incorrect installation, etc.)	Yes	1-3
			No	Correct
	1-3	Incorrect EEPROM Replace with correct EEPROM.		

H01 Primary (input) Overcurrent Detected

1. Error Detection Method

- Primary current effective value detected overcurrent (trip current value).

Type		PZH3							
Model name (U-)		71PZH3E5	100PZH3E5	125PZH3E5	140PZH3E5	71PZH3E8	100PZH3E8	125PZH3E8	140PZH3E8
Trip current value	Heating	21.5A	28.0A	31.0A	32.0A	10.5A	13.0A	14.0A	14.5A
	Cooling	21.5A	28.0A	31.0A	32.0A	10.5A	13.0A	14.0A	14.5A

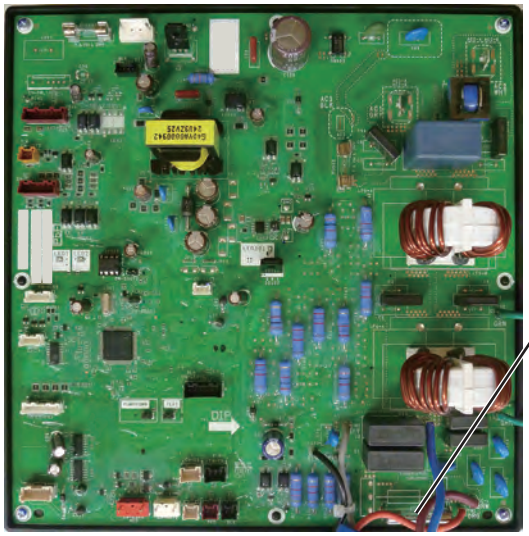
2. Error Diagnosis

1 Power supply*	1-1	Not satisfied with ±10% rated supply voltage	Yes	Check power supply
			No	1-2
	1-2	Extreme voltage fluctuations	Yes	Check power supply
			No	1-3
	1-3	Extreme distortion of voltage waveform	Yes	Check power supply
			No	1-4
	1-4	Instantaneous blackout may sometimes occur.	Yes	Check power supply
			No	2-1
2 PC board wiring	2-1	Has FUSE 1-A / FUSE 2 and FUSE 3 blown? Check the electrical conduction with tester.	Yes	2-3
			No	2-2
	2-2	Loose electrical wire connection	Yes	Correct wiring
			No	2-3
	2-3	Replace CR board.		

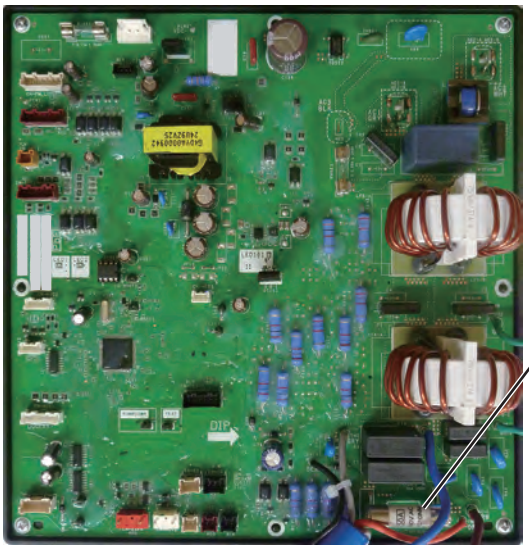
* Check not only in the outdoor unit stop mode but in the drive mode.

For Single-Phase Outdoor Unit PCB

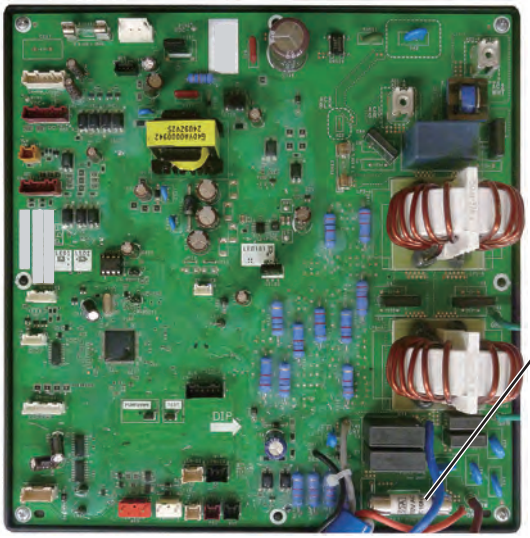
■ **CR-PCB : ACXA73-3552* (U-71PZH3E5)**



■ **CR-PCB : ACXA73-3551* (U-100PZH3E5)**

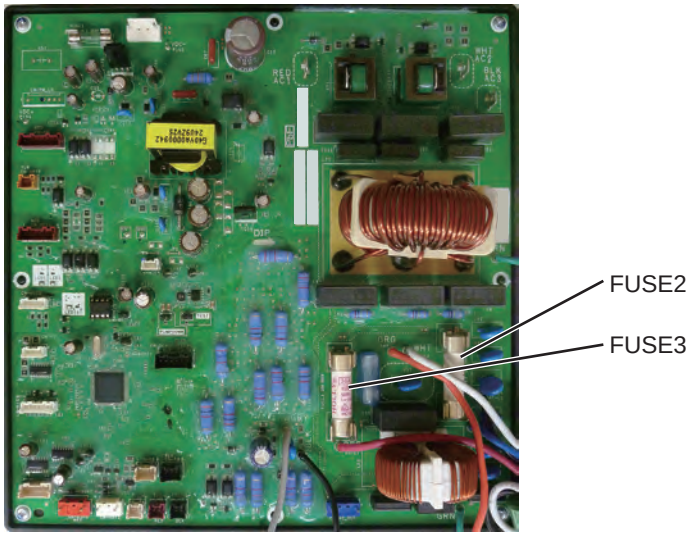


■ **CR-PCB : ACXA73-3550* (U-125PZH3E5, U-140PZH3E5)**

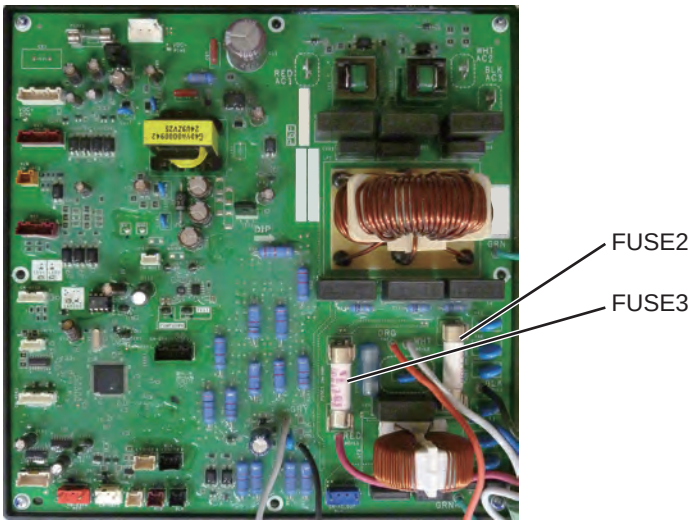


For 3-Phase Outdoor Unit PCB

■ **CR-PCB : ACXA73-3557* (U-71PZH3E8)**



■ **CR-PCB : ACXA73-3556* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)**



H02 PAM Trouble (Single-phase only)

1. Error Detection Method

- Error is detected by over-voltage and overcurrent of DC side.

2. Error Diagnosis

1 Power supply*	1-1	Not satisfied with ±10% rated supply voltage	Yes	Check power supply
			No	1-2
	1-2	Extreme voltage fluctuations	Yes	Check power supply
			No	1-3
	1-3	Extreme distortion of voltage waveform	Yes	Check power supply
			No	2-1
2 PC board wiring	2-1	Loose electrical wire connection	Yes	Correct connection
			No	2-2
	2-2	Replace HIC PC board.		

* Check not only in the outdoor unit stop mode but in the drive mode.

H03 Primary Current CT Sensor (current sensor) Failure

1. Error Detection Method

It is judged an error based on the criteria listed below.

- If 18A or greater is detected when the compressor is stopped (alarm triggered even if the connector is unplugged).
- If no current is detected even though a compressor is running.

2. Error Diagnosis

1 Check the control PC board	1-1	Turn the power on again and run the outdoor unit. Is alarm occurred after operation?	Yes	Replace CR board.
			No	See what happens.

- Check also the power supply.

H31 HIC Trouble

1. Error Detection Method

It is judged an error if the computer detects an error signal from the HIC.
An error signal is issued by the HIC if abnormal heat occurs inside the HIC or if there is an overcurrent.
However, it is judged an error in the same way if the signal line from the HIC is not connected properly or opened.

- HIC overcurrent due to HIC fault
- HIC abnormal heat caused by defective HIC or HIC radiation error
- Signal line is not connected properly or opened between the HIC and the outdoor CR board.

2. Error Diagnosis

1 Wiring between HIC & outdoor control PC board	1-1	The wiring (power cord and signal line) between the HIC and the outdoor CR board is connected properly.	Yes	1-2
			No	Correct wiring (connector)
	1-2	Everything is normal in the wiring (power cord & signal line) between the HIC and the outdoor CR board. Check the wiring one by one with a tester if there is opened and grounding.	Yes	2-1
			No	Replace wiring
2 HIC poor radiation	2-1	The heat dissipating surface on the back of the HIC is in good contact with the heat sink (heat dissipating fins) of the electrical box. Check for looseness in the fastening screws and the condition of the heat-conducting putty.	Yes	2-2
			No	Tighten screw(s), add putty
	2-2	A good flow of cooling air passes through the heat sink (heat dissipating fins) of the electrical box. Check for debris blocking the fins.	Yes	3-1
			No	Remove foreign matter
3 HIC overcurrent	3-1	The results of the pass / fail tests for the following HIC board IPM show it to be outside the range of the resistance of a conforming part.	Yes	Replace the HIC PC board
			No	3-2
	3-2	The inverter compressor was stopped / started more than 10 times and it triggered H31 at a high rate. If alarm code P16 occurs at times, refer to the alarm code P16.	Yes	Replace the HIC PC board
			No	Refer to alarm code P16

- **HIC board IPM Pass / Fail Tests**
  - Measure with an analog tester. (Set to the k ohm range)
  - Measure the board by itself. (Remove wires connected from other parts.)
  - Measure using IPM terminals.

★ Conforming part resistance value (measure with an analog tester)

Tester terminals								
+	P				NU			
-	U	V	W	NU	U	V	W	P
Resistance value (ohm)	1 k to 5 k	1 k to 5 k	1 k to 5 k	5 k to 10 k	100 k to ∞	100 k to ∞	100 k to ∞	100 k to ∞

Tester terminals								
-	P				NU			
+	U	V	W		U	V	W	
Resistance value (ohm)	100 k to ∞	100 k to ∞	100 k to ∞		1 k to 5 k	1 k to 5 k	1 k to 5 k	

- Excepting the parts of "100 k to ∞", it is acceptable if a small resistance value appears as a reference value unless the value is "0 = short-circuit".

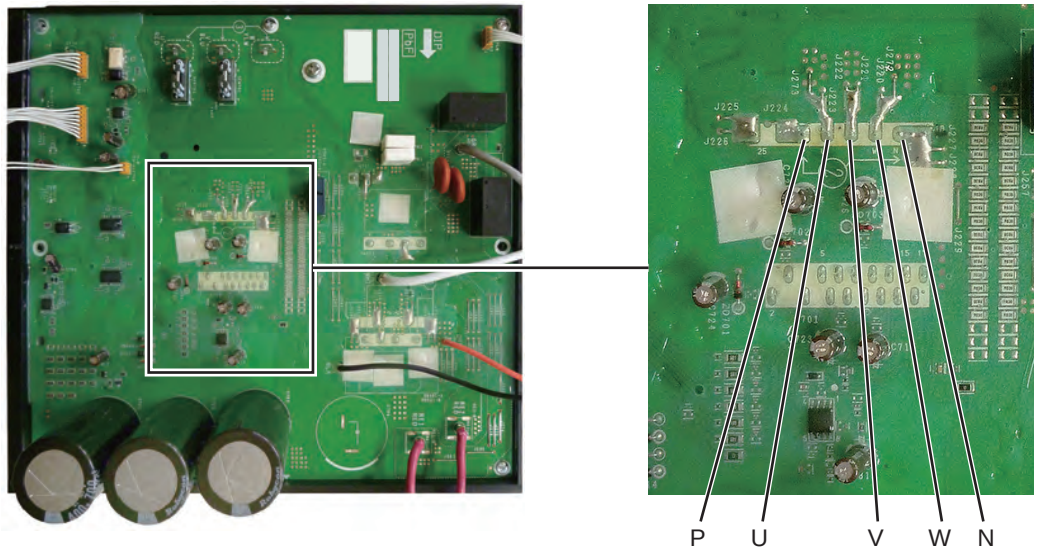
Tester terminals								
+	HIC+				HIC-			
-	U	V	W	HIC-	U	V	W	HIC+
Resistance value (ohm)	1 k to 10 k	1 k to 10 k	1 k to 10 k	5 k to 20 k	20 k to ∞	20 k to ∞	20 k to ∞	20 k to ∞

Tester terminals								
-	HIC+				HIC-			
+	U	V	W		U	V	W	
Resistance value (ohm)	20 k to ∞	20 k to ∞	20 k to ∞		1 k to 10 k	1 k to 10 k	1 k to 10 k	

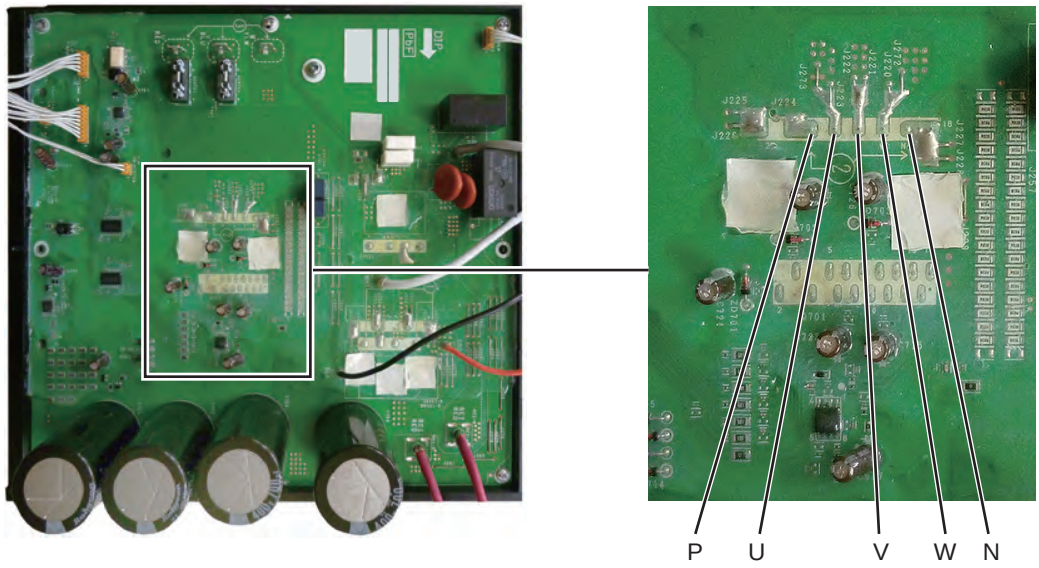
- Excepting the parts of “20 k to ∞ ”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

For Single-Phase Outdoor Unit HIC PCB

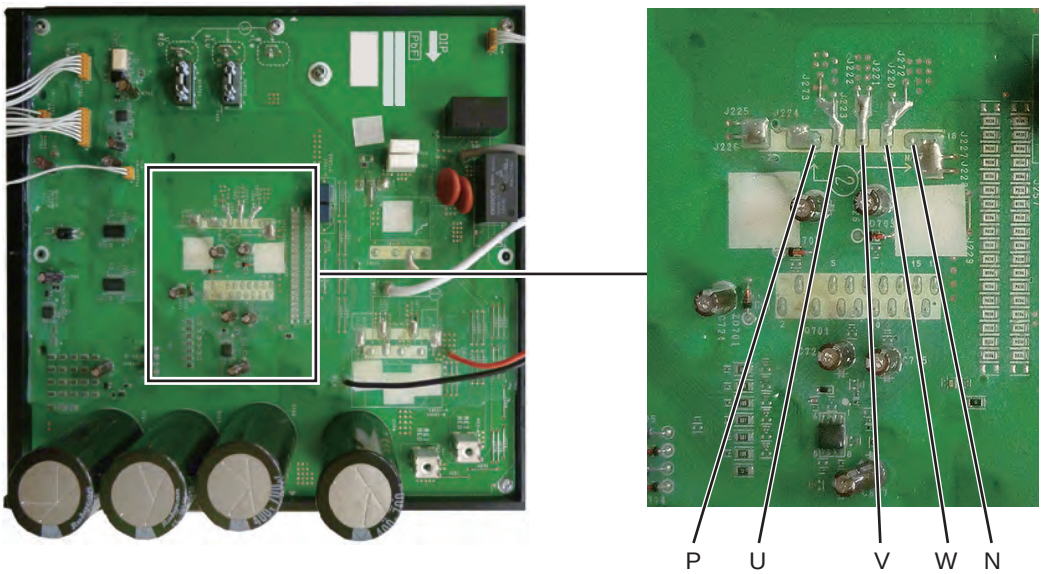
■ **HIC-PCB : ACXA73-3555* (U-71PZH3E5)**



■ **HIC-PCB : ACXA73-3554* (U-100PZH3E5)**

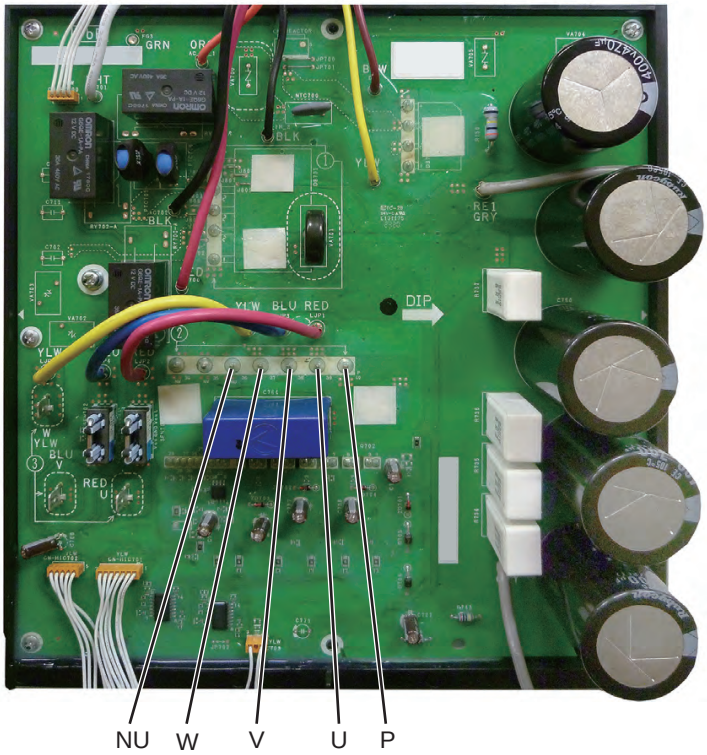


■ **HIC-PCB : ACXA73-3553* (U-125PZH3E5, U-140PZH3E5)**

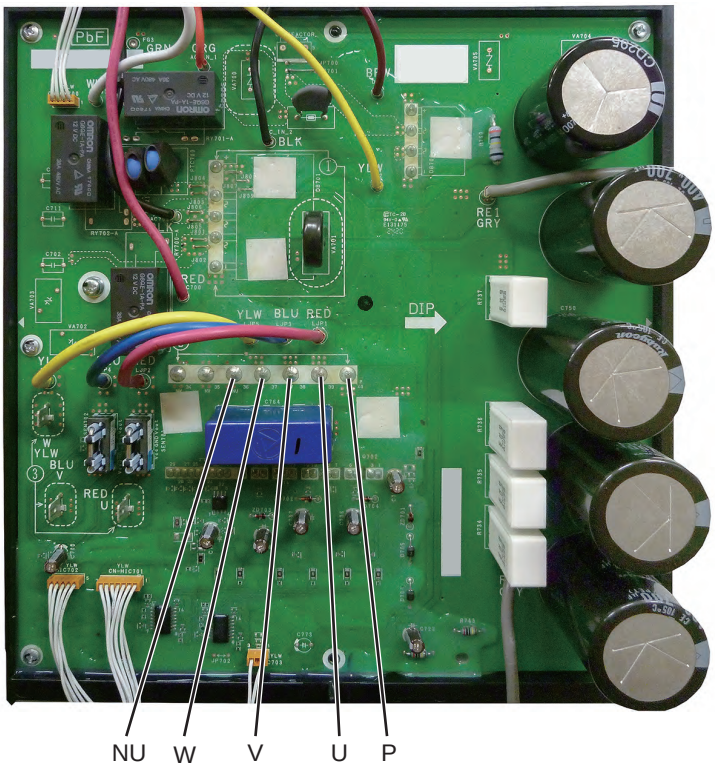


For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-3559* (U-71PZH3E8)**



■ **HIC-PCB : ACXA73-3558* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)**



L10 Outdoor Unit Capacity not Set or Invalid

1. Error Detection Method

It is judged an error when outdoor unit capacity not yet setup or systematically unauthorized setting.

2. Error Diagnosis

1 Check the control PC board	1-1	Was EEPROM replaced when PC board was replaced?

L13 Indoor Unit Type Setting Error

1. Error Detection method

- Discordance model(s) between outdoor and indoor units are detected.

1 Discordance Unit	1-1	Are models for outdoor and indoor units matched respectively? (Ex: Are multiple indoor units connected to commercial outdoor units?)	Yes	2-1
			No	Replace indoor units.
2 Installation Failure	2-1	Check the indoor unit's motor valve with the remote control detailed settings mode (2C code) and commercial indoor unit is set to "2" and multiple indoor unit is "0".	Yes	3-1
			No	Change installation.
3 Operating Wires for Indoor & Outdoor Units	3-1	Check whether or not indoor and outdoor unit operating wires are short circuit, disconnection, loose connection or earth fault.		

L18 4-Way Valve Operation Failure

1. Error Detection method

It is judged an error when during heating operation (Comp. ON), the highest detected temperature at an outdoor unit heat exchanger (C1) was 20°C or more above the outdoor air temperature (Air Temp.) continuously for 5 minutes or longer.

2. Error Diagnosis

1 PC board wiring	1-1	Is the connector wired from the 4-Way valve plugged in the CN-HOT or CN-HOT2 connector on the CR PC board properly?	Yes	1-2
			No	Correct connector
	1-2	Has the 4-Way valve wiring become opened?	Yes	Correct wiring
			No	1-3
	1-3	Is the wire from the coil for controlling the 4-Way valve firmly connected to the 4-Way valve?	Yes	2-1
			No	Correct connector
2 4-Way valve	2-1	During heating mode (Comp. ON), insert and remove the connector wired from the 4-Way valve into or from CN-HOT or CN-HOT2 connector on the CR PC board. At the same time, does the ON & OFF sounds occur from the 4-Way valve?	Yes	2-2
			No	Replace CR PC board
	2-2	During heating mode (Comp. ON), does the alarm code L18 reproduce for 5 minutes or longer after insertion and removal of CN-HOT or CN-HOT2 connector wired from the 4-Way valve connector on the CR PC board?	Yes	2-3
			No	See what happens
	2-3	The parts inside the 4-Way valve might have fixed at the cooling side. Replace the 4-Way valve		

P03 Compressor Discharge Temperature Trouble

1. Error Detection method

- When the discharge temperature is over 103°C.

2. Error Diagnosis

1 Adjustment to refrigerant charge	1-1	Not additional refrigerant charged	Yes	Additional refrigerant charge
			No	2-2
	1-2	Tends to have insufficient refrigerant charge in the system.	Yes	Adjust the refrigerant amount
			No	Replace CR board
2 Blockage in refrigerant circuit	2-1	Service valve inside the outdoor unit closed	Yes	Open service valve
			No	2-2
	2-2	Are the tubes clogged?	Yes	Avoid clogging
			No	2-3
	2-3	Is the outdoor unit's electronic control valve operating correctly? (Check for debris clogging the electronic control valve, a problem with the electronical coil and / or the control PC board.)	Yes	2-4
			No	Replace the electronic control valve
	2-4	Is it observable difference in status of the dew or frost between the strainer's primary and secondary sides?	Yes	Replace the strainer
			No	Replace CR board

P04 High Pressure Trouble

1. Error Detection Method

It is judged an error if the internal circuit of the high pressure switch is dead.
The electronic circuitry of the high pressure switch is cut off if the pressure at the pressure sensor port of the high pressure switch reaches 4.15 MPa. Once it is cut off, it remains cut off until the pressure drops to 3.05 MPa.

- The high pressure switch is malfunctioning.
- Service valve inside the outdoor unit closed
- There is a short air circuit through the outdoor unit's heat exchanger. (when cooling)
- The outdoor unit's fan is broken. (when cooling)
- The outdoor unit's heat exchanger is clogged. (when cooling)
- There is a short air circuit at the indoor unit. (when heating)
- The filter of the indoor unit is clogged. (when heating)
- The fan of the indoor unit is broken or the fan motor is malfunctioning. (when heating)
- The refrigerant circuit is closed and the high pressure is increasing abnormally high. (solenoid valve or expansion valve not activated, a stuck check valve, etc.)
- Refrigerant overcharged.
- Nitrogen or air contaminated in the refrigerant system

2. Error Diagnosis

1 High pressure switch	1-1	The socket of the high pressure switch is securely inserted in the PC board. The wiring is not opened.	Yes	1-2
			No	Correct connection and / or wiring
	1-2	Even if parts near the high pressure switch are shaken quite a lot, the high pressure cut off will be activated. Even if the covering is in good condition, in several cases vibration has caused wiring inside to open.	Yes	Replace the high pressure switch (wiring)
			No	2-1
2 Service valve	2-1	Service valve inside the outdoor unit closed	Yes	Open the service valve
			No	2-2
	2-2	There is an extreme difference in temperature in / out of the service valve.	Yes	2-3
			No	3-1
	2-3	Check the flare connection, someone may have forgotten to remove the bonnet. If there is a problem within the service valve, replace the valve.		
3 Problem around the heat exchanger	3-1	While cooling is operating an alarm is occurred.	Yes	3-2
			No	3-5
	3-2	The intake temperature (ambient temperature) of the outdoor unit's heat exchanger is above 48°C.	Yes	Prevent air short circuit
			No	3-3
	3-3	The outdoor unit's heat exchanger is clogged.	Yes	Clean the heat exchanger
			No	3-4
	3-4	Check whether the outdoor unit fan is normal or if the sockets are firmly pressed onto the plugs on the outdoor PC board, as well as if any wiring is opened. Are these checking finished without fail?	Yes	4-1
			No	Replace the outdoor unit fan. Correct connection and / or wiring
	3-5	While heating is operating an alarm is occurred.	Yes	3-6
			No	4-1

3 Problem around the heat exchanger	3-6	The intake temperature (ambient temperature) of the indoor unit is above 36°C.	Yes	Prevent air short circuit
			No	3-7
	3-7	The filter of the indoor unit is clogged.	Yes	Clean the filter
			No	3-8
	3-8	The fan of the indoor unit is broken or the fan motor is faulty.	Yes	Replace the indoor fan (motor)
			No	4-1
4 Blockage in the refrigerant circuit	4-1	Is the outdoor unit's electronic control valve operating correctly? (Check for debris clogging the electronic control valve, a problem with the electronical coil and / or the control PC board.)	Yes	4-3
			No	Repair the electronic control valve of the outdoor unit
	4-2	The indoor unit's expansion valve is operating correctly. (check for debris clogging the valve, a problem with the electronical coil and / or the control PC board)	Yes	4-3
			No	Repair the expansion valve of the indoor unit
	4-3	If an alarm is occurred with the high pressure below 4.15 MPa, with the pressure measured as displayed by the manifold gauge, check the check valve in the compressor discharge line. Are these checking finished without fail?	Yes	4-4
			No	Replace the check valve in the compressor discharge line
	4-4	The electronic control valve is faulty. In systems where the solenoid valve kits and the ice thermal storage tank are connected, check these solenoid valves.	Yes	Replace the electronic control valve and / or solenoid valve.
			No	5-1
5 Overcharging	5-1	Error occurs when the system is operating in cooling mode.	Yes	5-3
			No	5-2
	5-2	Error occurs when the system is operating in heating mode.	Yes	5-4
			No	5-5
	5-3	An alarm is occurred with the high pressure at 4.15 MPa, with the pressure measured either as displayed by the monitoring software or with a manifold gauge, at which time the temperature of liquid in the outdoor unit's heat exchanger is detected to be at the temperature of the outside air.	Yes	5-5
			No	Contact the service representative
	5-4	An alarm is occurred with the high pressure at 4.15 MPa, with the pressure measured either as displayed by the monitoring software or with a manifold gauge, at which time the temperature of liquid in the indoor heat exchanger is detected to be at room temperature (intake temperature).	Yes	5-5
			No	Contact the service representative
	5-5	The system may be overcharged. Check how much refrigerant was added during installation. When a system is inspected for airtightness, it is seldom that enough nitrogen has been expelled, so some remains in the circuit. In this case, it is necessary to collect the refrigerant and then recharge the system.		

P05 AC Power Supply Trouble

1. Error Detection Method

- Instantaneous blackout
- Zero-cross (waveform input of power supply) error
- DC voltage charge failure

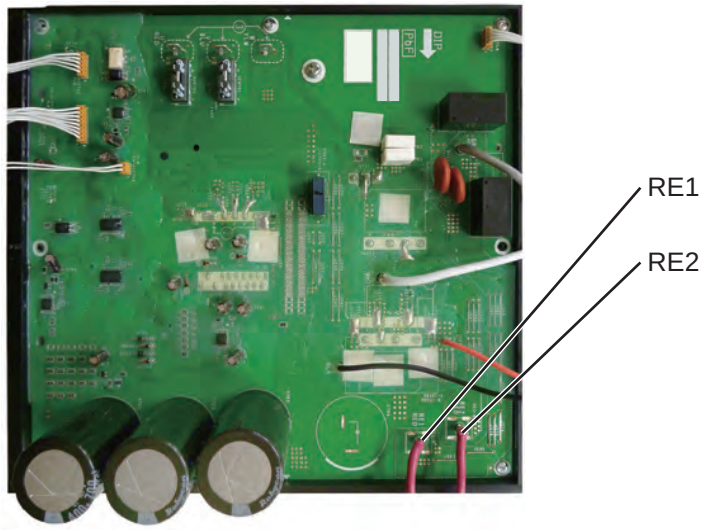
2. Error Diagnosis

Note : The work involved in diagnosing each of the items is extremely dangerous, so turn the power off at the breaker before performing the tests.

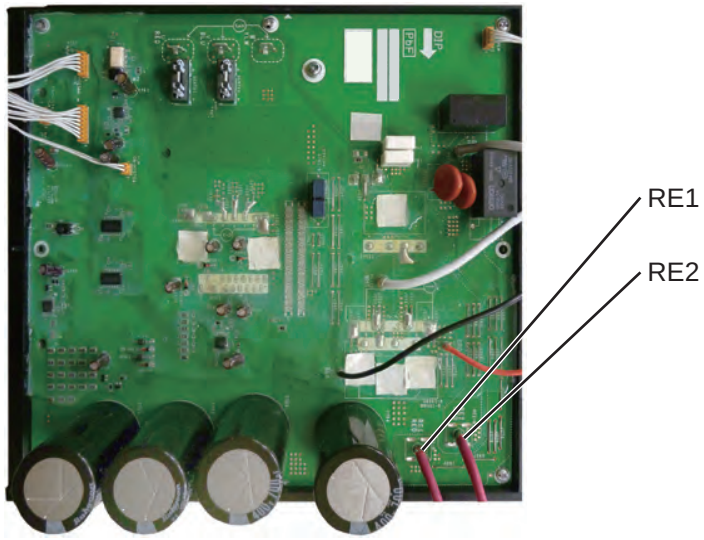
1 Check the power supply & the wiring	1-1	Is the voltage on each of the terminal boards within ±10% of the rated voltage?	Yes	1-3 : Single-phase model 1-2 : 3-phase model	
			No	Check for open circuit and the voltage at the breaker. If a problem is found, fix it and check again.	
	1-2	Power wiring L1 and L3 are connected.		Yes	Correct wiring
				No	1-3
	1-3	Turn the power back on and check again. Is the alarm triggered again?		Yes	2-1
				No	3-1
2 Check the outdoor unit HIC PC board	2-1	Are the wires (RE1, RE2) from the reactor firmly installed? Are the wires also connected to the side of the reactor?		Yes	2-2
				No	Correct wiring
	2-2	Turn the power back on and check again. Is the alarm triggered again?		Yes	Replace the outdoor unit HIC PC board.
				No	3-1
3 Final check	3-1	There may be a instantaneous blackout failure. If there is nothing abnormal, see what happens.			

For Single-Phase Outdoor Unit HIC PCB

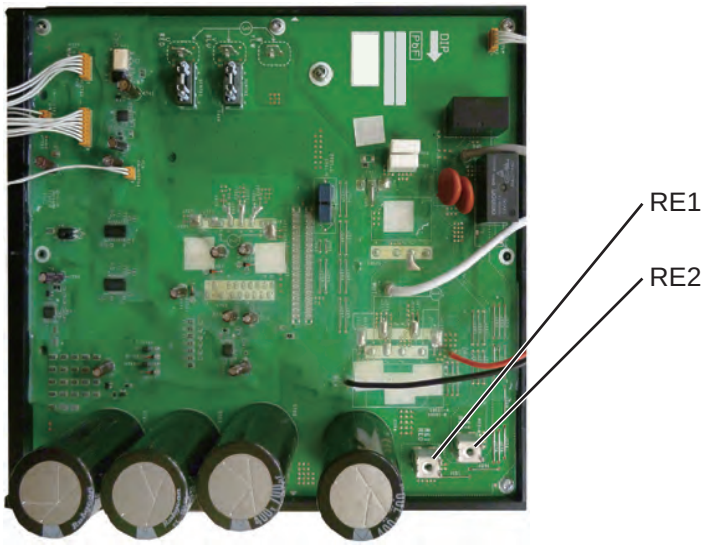
■ **HIC-PCB : ACXA73-3555* (U-71PZH3E5)**



■ **HIC-PCB : ACXA73-3554* (U-100PZH3E5)**

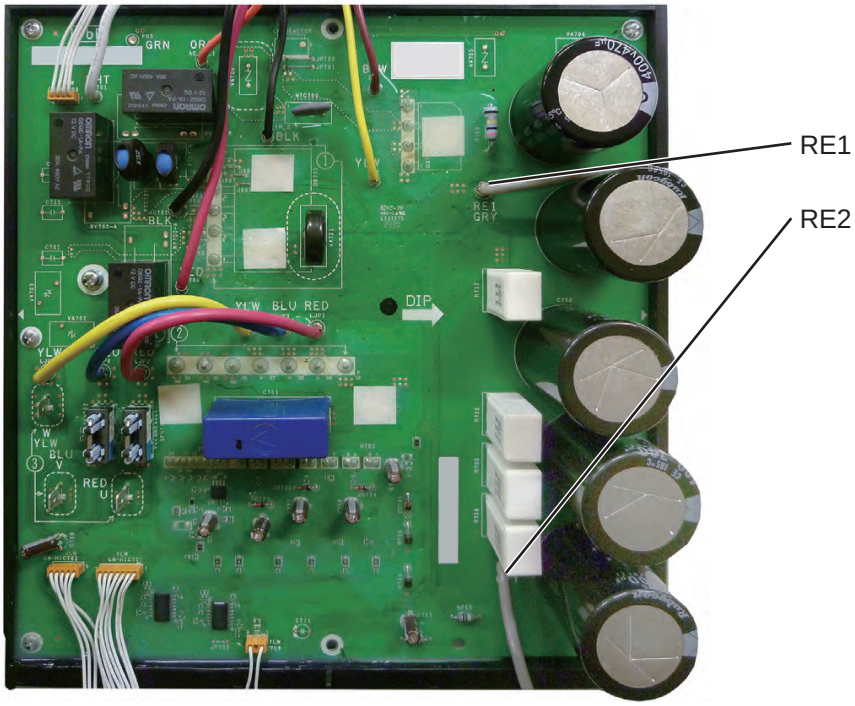


■ **HIC-PCB : ACXA73-3553* (U-125PZH3E5, U-140PZH3E5)**



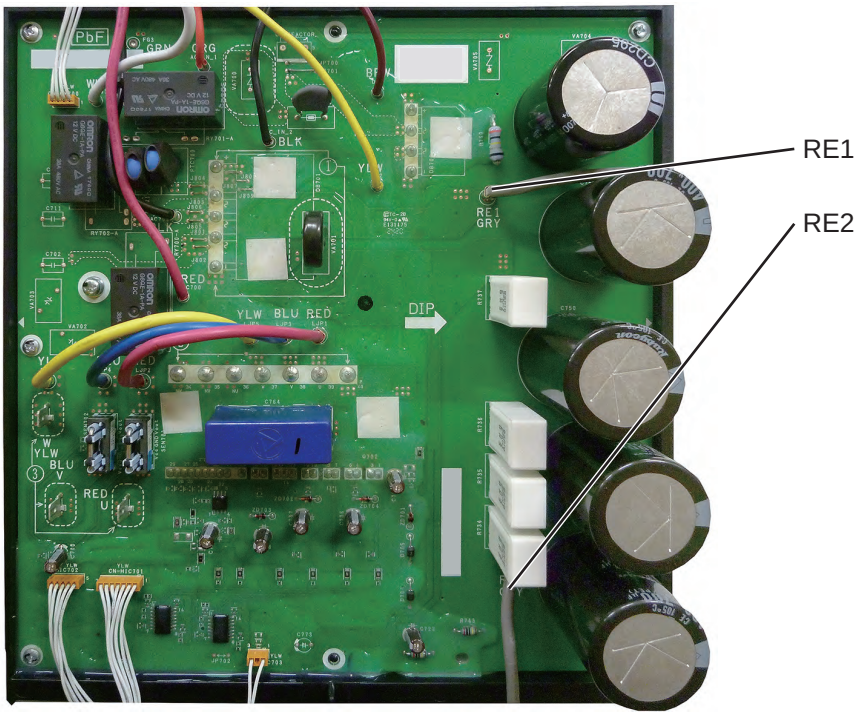
For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-3559* (U-71PZH3E8)**



5

■ **HIC-PCB : ACXA73-3558* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)**



P13 Alarm Valve Open

1. Error Detection Method

Detection is performed only in the test run. When once detected or the test run finished without any error, the second detection will not be done.

In case of forgetting to open a valve, P04 (high-pressure switch operational alarm) is occasionally preceded due to the following conditions.

- The status of small temperature change of the operating indoor unit continues for the first 7 minutes since the cooling test run has started.

2. Error Diagnosis

1 Service valve	1-1	Service valve inside the outdoor unit closed	Yes	Open the service valve
			No	2-1
2 Adjustment to refrigerant change	2-1	Not additional refrigerant charged	Yes	Additional refrigerant charge
			No	3-1
3 Blockage in refrigerant circuit	3-1	Are the tubes clogged?	Yes	Avoid clogging
			No	3-2
	3-2	Is the outdoor unit's electronic control valve operating correctly? (Check for debris clogging the electronic control valve, a problem with the electronical coil and / or the control PC board.)	Yes	3-3
			No	Replace the electronic control valve
	3-3	As the second detection is not done, restart and see what happens if there is no error.		

P15 Insufficient Gas Level Detected

1. Abnormal Detection Method

Alarm occurs in the following cases:

- Compressor's current value shows lower than a certain value.
- Compressor's discharge temperature exceeds 95°C.
- Electronic expansion valve is fully opened.
- The difference between indoor unit heat exchanger temperature and intake temperature is less than 4K.

2. Error Diagnosis

1 Adjustment of refrigerant amount	1-1	Insufficient gas level (Check whether or not pressure level is normal.)	Yes	Recharge with additional refrigerant.
			No	1-2
	1-2	Check leakage of refrigeration (leak test)	Yes	Replace leaking part with a new one.
			No	See what happens.

P16 Compressor Overcurrent Trouble

1. Meaning of Alarm

- Secondary current effective value detected the overcurrent (trip current value).

Type		PZH3							
Model name (U-)		71PZH3E5	100PZH3E5	125PZH3E5	140PZH3E5	71PZH3E8	100PZH3E8	125PZH3E8	140PZH3E8
Trip current value	Heating	13.0A	18.0A	19.0A	19.5A	9.0A	11.5A	12.5A	13.0A
	Cooling	13.0A	18.0A	19.0A	19.5A	9.0A	11.5A	12.5A	13.0A

2. Check of content

0 Multiple factors	0-1	Replaced the compressor (added oil, if it was necessary) but it occurred again immediately.	Yes	7-1
			No	-
	0-2	Replaced the board, but it occurred again immediately.	Yes	Replace compressor along with adding oil, then recheck from 1-1
			No	-
1 Power Source	1-1	Power cord connections are loose.	Yes	Correct the wiring
			No	1-2
	1-2	Rated power voltage is not within ±10%.	Yes	Test the power supply
			No	1-3
	1-3	Extreme fluctuations in voltage.	Yes	Test the power supply
			No	1-4
	1-4	An open phase state is observed.	Yes	Test the power supply
			No	2-1
2 Board wiring	2-1	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections on the CR board and / or in the connections of components that are connected by wiring from the CR board.	Yes	Correct
			No	2-2
	2-2	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of outdoor board(s) that are connected by wiring from the CR board.	Yes	Correct
			No	2-3
	2-3	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of outdoor board(s) that are connected by wiring from the HIC board.	Yes	Correct
			No	2-4
	2-4	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC boards connected by wiring from the CR board.	Yes	Correct
			No	2-5
	2-5	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC board(s) that are connected by wiring from the outdoor board.	Yes	Correct
			No	2-6
	2-6	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC board(s) that are connected by wiring to a compressor.	Yes	Correct
			No	3-1

3 Compressor wiring	3-1	Disconnections and / or miswiring are observed in the connecting location of the compressor terminals.	Yes	Correct
			No	3-2
	3-2	Conditions such as burned terminal covers and / or discolored terminals are observed in the connecting location of the compressor terminals.	Yes	Eliminate looseness by changing the terminals, or crimping the terminals again.
			No	4-1
4 Check the situation	4-1	Outdoor air intake temperature is high.	Yes	Take measures
			No	4-2
	4-2	May be caused by poor outdoor unit air flow (dirty or clogged heat exchanger, blocked discharge port, etc.)	Yes	Correct
			No	4-3
	4-3	Air short circuit has occurred. This is a phenomenon when discharged air (exhaust heat) from the outdoor unit is drawn back into the suction vent.	Yes	Prevent air short circuit
			No	4-4
	4-4	Indoor air intake temperature is high.	Yes	Take measures
			No	4-5
	4-5	The filter of the indoor unit is clogged.	Yes	Clean the filter
			No	4-6
	4-6	Air short circuit has occurred. This is a phenomenon when discharged air (exhaust heat) from the indoor unit is drawn back into the suction vent.	Yes	Prevent air short circuit
			No	5-1
5 Check operation	5-1	Possible to operate.	Yes	5-2
			No	6-1
	5-2	Operating pressure is affected by pressure overload.	Yes	5-3
			No	5-4
	5-3	Tends to have an overcharge of refrigerant in the system.	Yes	Adjust the amount of refrigerant
			No	5-4
	5-4	Tends to operate for a long time turning gas back into liquid.	Yes	Check the operation of functional parts
			No	5-5
	5-5	Tends to have insufficient refrigerant charge in the system.	Yes	Adjust the amount of refrigerant
			No	5-6
	5-6	Even though the high pressure saturation temperature is 48°C or less, the secondary current of the inverter is high. (The frequency (Hz) ends up dropping due to the current.)	Yes	Replace the compressor
			No	See what happens.
6 Check history	6-1	Dividing the outdoor EEPROM INV operation time by the number of times oil was supplied to the system yields 3 hours or less.	Yes	6-2
			No	6-2
	6-2	There is a history of H31 in the pre-trip counter of the outdoor EEPROM alarm history.	Yes	Replace the compressor and add oil. However, if 6-1 was “no”, it is not necessary to add oil.
			No	7-1
7 Check the HIC boards	7-1	The results of HIC board IPM Pass / Fail Tests show the outside the range of the resistance of a conforming part listed in the next page.	Yes	Replace HIC board
			No	8-1

8 Check the compressor	8-1	The compressor is causing a failure in the insulation.	Yes	Replace the compressor
			No	8-2
	8-2	The winding resistance of the compressor is abnormal. See “5-3. (3) Coil Resistance of Compressor ”.	Yes	Replace the compressor
			No	9-1
9 Check the HIC PC boards	9-1	Replace the HIC PC board and operate the unit. (Apply putty and screws must not be loose) Does it operate normally?	Yes	See what happens.
			No	10-1
10 Check the outdoor unit main PC board	10-1	Replace the control PC board and operate the unit.	See what happens.	

- (Check content of 7) The test check of the HIC board is only a check on the output level, so the input stage may not be working.
- With the filter board broken, alarm P16 may not be triggered.
- **HIC board IPM Pass / Fail Tests**
  - Measure with an analog tester. (Set to the k ohm range.)
  - Measure the board by itself. (Remove wires connected from other parts.)
  - Measure using IPM terminals.

★ Conforming part resistance value (measure with an analog tester)

Tester terminals								
+	P				NU			
-	U	V	W	NU	U	V	W	P
Resistance value (ohm)	1 k to 5 k	1 k to 5 k	1 k to 5 k	5 k to 10 k	100 k to ∞	100 k to ∞	100 k to ∞	100 k to ∞

Tester terminals								
-	P				NU			
+	U	V	W		U	V	W	
Resistance value (ohm)	100 k to ∞	100 k to ∞	100 k to ∞		1 k to 5 k	1 k to 5 k	1 k to 5 k	

- Excepting the parts of “100 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

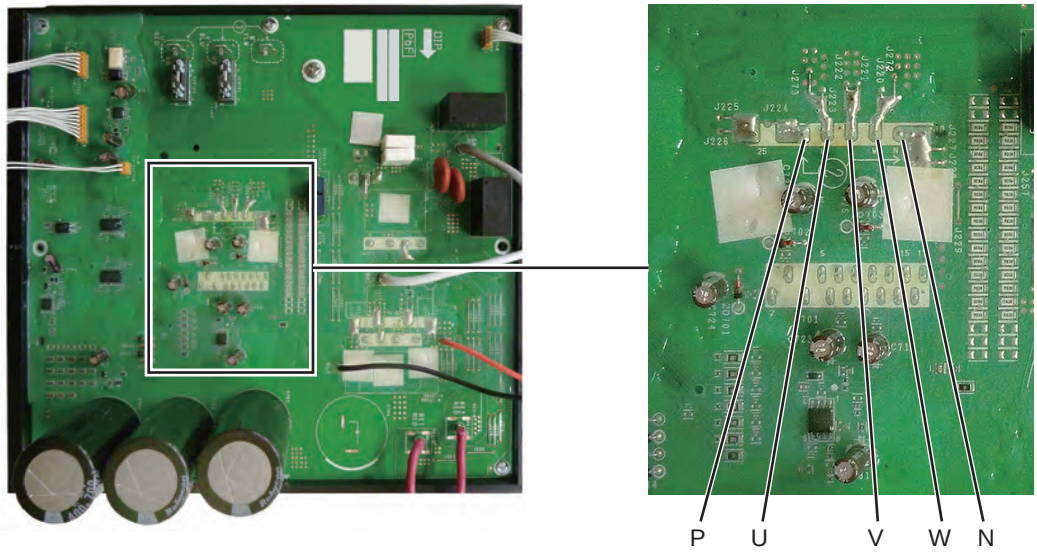
Tester terminals								
+	HIC+				HIC-			
-	U	V	W	HIC-	U	V	W	HIC+
Resistance value (ohm)	1 k to 10 k	1 k to 10 k	1 k to 10 k	5 k to 20 k	20 k to ∞	20 k to ∞	20 k to ∞	20 k to ∞

Tester terminals								
-	HIC+				HIC-			
+	U	V	W		U	V	W	
Resistance value (ohm)	20 k to ∞	20 k to ∞	20 k to ∞		1 k to 10 k	1 k to 10 k	1 k to 10 k	

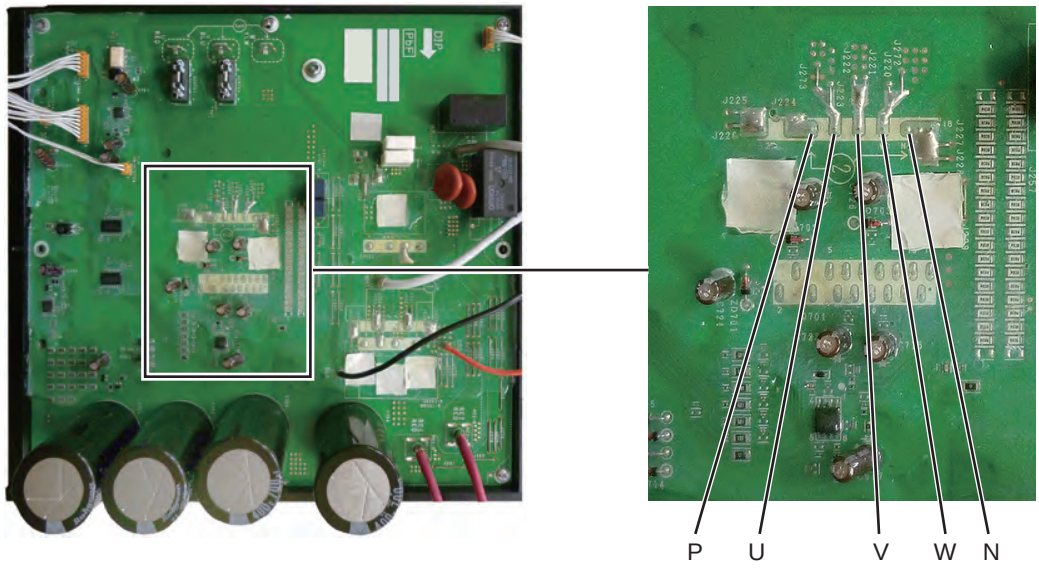
- Excepting the parts of “20 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

For Single-Phase Outdoor Unit HIC PCB

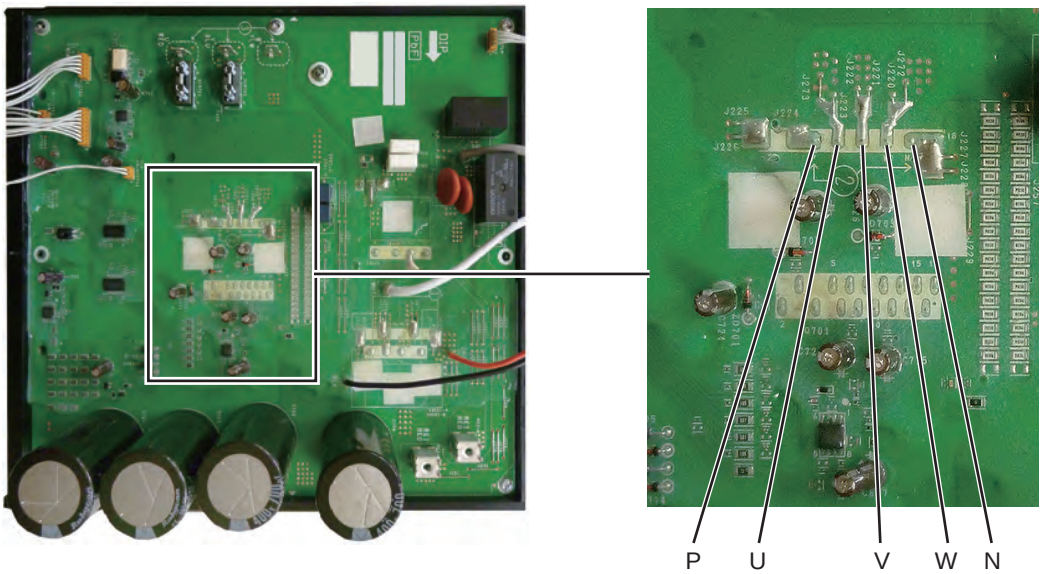
■ **HIC-PCB : ACXA73-3555* (U-71PZH3E5)**



■ **HIC-PCB : ACXA73-3554* (U-100PZH3E5)**

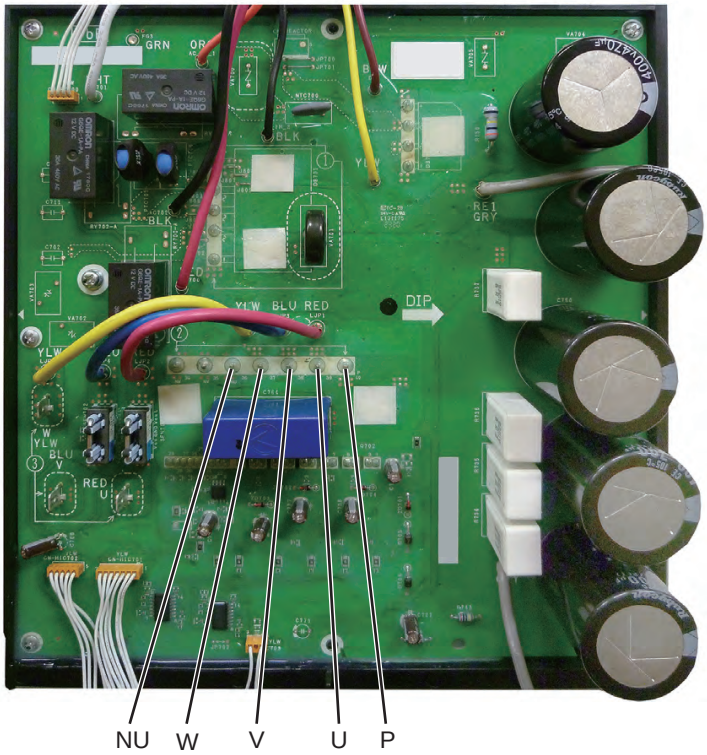


■ **HIC-PCB : ACXA73-3553* (U-125PZH3E5, U-140PZH3E5)**

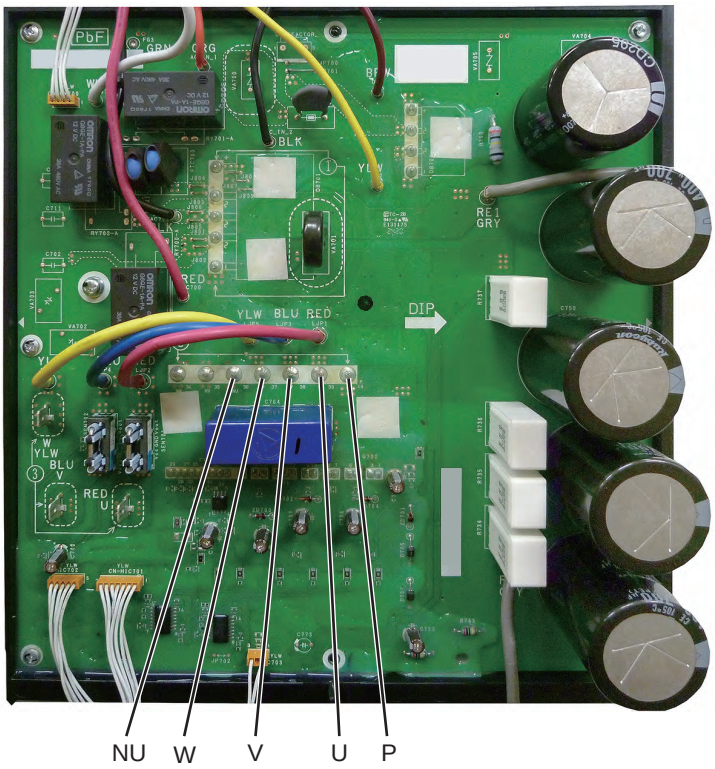


For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-3559* (U-71PZH3E8)**



■ **HIC-PCB : ACXA73-3558* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)**



P22 Outdoor Unit Fan Motor Trouble

1. Error Detection Method

- It is judged an error when the outdoor fan motor's rotating signal cannot be detected normally.

2. Error Diagnosis

1 Wiring	1-1	Is the connector "CN-FM" firmly connected to the outdoor control PC board (lock engaged)?	Yes	2-1
			No	Correct the connector connections
2 Outdoor fan motor	2-1	Disconnect the connector "CN-FM" from the outdoor control PC board and rotate the outdoor fan by hand; does it rotate freely? (Check the outdoor fan motor lock)	Yes	3-1
			No	Replace the outdoor fan motor
3 Outdoor control PC board	3-1	Turn the power on and run the unit again; is P22 triggered again? Or can you see or hear anything that is obviously wrong in its rotation?	Yes	3-2
			No	3-3
	3-2	Replace the outdoor control PC board. (If it fails to operate normally even after replacing the outdoor control PC board, replace the outdoor fan motor.)		
	3-3	If there is nothing particularly out of the ordinary, see what happens.		

P29 Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure

1. Error Detection Method

- Abnormal current is detected at DCCT before start-up.
- Start-up failed during overcurrent and / or step-out detected.
- Open-wire of compressor and / or backspin detected.
- Secondary current is not detected during INV compressor is running.

2. Error Diagnosis

1 Wiring	1-1	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of HIC PC board(s) that are connected by wiring to a compressor. *1	Yes	Correct wiring connections
			No	1-2
	1-2	Disconnected parts, miswiring and / or poor connections (loose) are observed in the connections of outdoor board(s) that are connected by wiring from the HIC PC board. *1	Yes	Correct wiring connections
			No	2-1
2 Compressor wiring	2-1	Disconnections and / or miswiring is observed in the connections of the compressor terminals. *1	Yes	Correct
			No	2-2
	2-2	Conditions such as burned terminal covers and / or discolored terminals are observed at the connectors of the compressor terminals. *1	Yes	Eliminate looseness by changing the terminals, or crimping the terminals again.
			No	3-1
3 Check the HIC PC boards	3-1	The results of the pass / fail tests for the following HIC PC board IPM show it to be outside the range of the resistance of a conforming part.	Yes	Replace the HIC board
			No	3-2
	3-2	Replace the HIC PC board and operate the unit. (Apply putty and screws must not be loose) Does it operate normally?	Yes	See what happens.
			No	4-1
4 Check the outdoor control PC board	4-1	Replace the control PC board and operate the unit.	See what happens.	

*1 Checking for looseness of compressor terminals by wiggling them has the adverse effect of loosening them, so do not do it.
Evaluate them by discoloration of wire insulation near the terminal.

- **HIC board IPM Pass / Fail Tests**
  - Measure with an analog tester. (Set to the k ohm range.)
  - Measure the board by itself. (Remove wires connected from other parts.)
  - Measure using IPM terminals.

★ Conforming part resistance value (measure with an analog tester)

Tester terminals								
+	P				NU			
-	U	V	W	NU	U	V	W	P
Resistance value (ohm)	1 k to 5 k	1 k to 5 k	1 k to 5 k	5 k to 10 k	100 k to	100 k to	100 k to	100 k to

Tester terminals								
-	P				NU			
+	U	V	W		U	V	W	
Resistance value (ohm)	100 k to	100 k to	100 k to		1 k to 5 k	1 k to 5 k	1 k to 5 k	

- Excepting the parts of “100 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

Tester terminals								
+	HIC+				HIC-			
-	U	V	W	HIC-	U	V	W	HIC+
Resistance value (ohm)	1 k to 10 k	1 k to 10 k	1 k to 10 k	5 k to 20 k	20 k to	20 k to	20 k to	20 k to

Tester terminals								
-	HIC+				HIC-			
+	U	V	W		U	V	W	
Resistance value (ohm)	20 k to	20 k to	20 k to		1 k to 10 k	1 k to 10 k	1 k to 10 k	

- Excepting the parts of “20 k to ∞”, it is acceptable if a small resistance value appears as a reference value unless the value is “0 = short-circuit”.

P31 Group Control Error

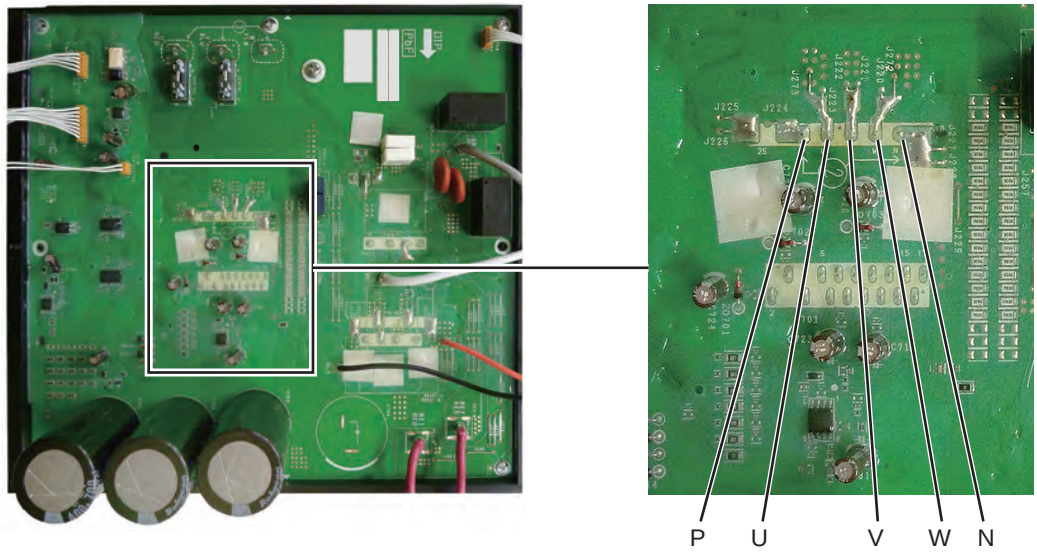
1. Error Detection Method

- Other indoor unit alarms within the group.

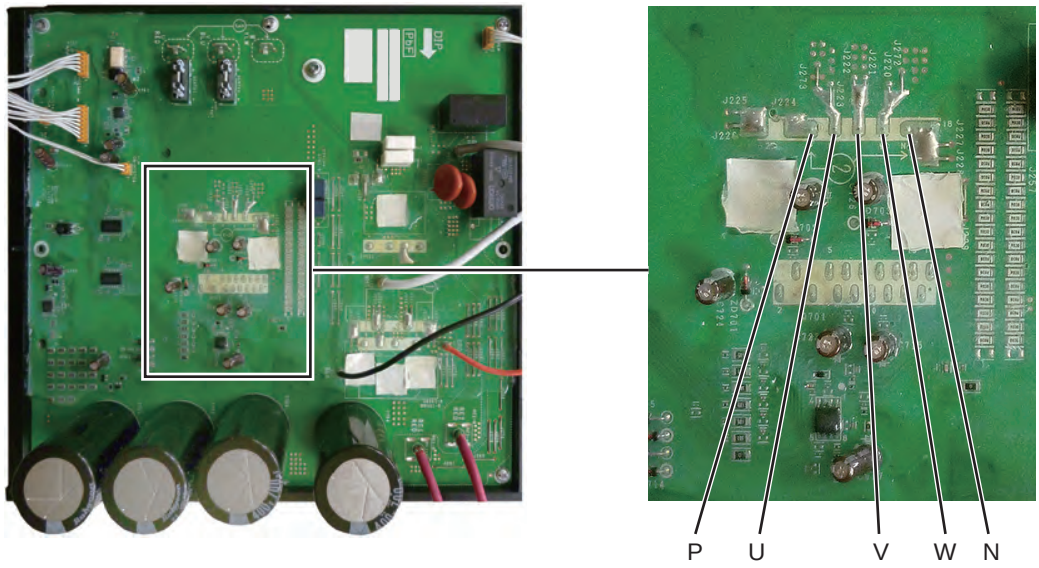
1 Other indoor unit	1-1	Survey the indoor unit that alarms other than “P31” in the indoor unit group and specify the causes of failure.

For Single-Phase Outdoor Unit HIC PCB

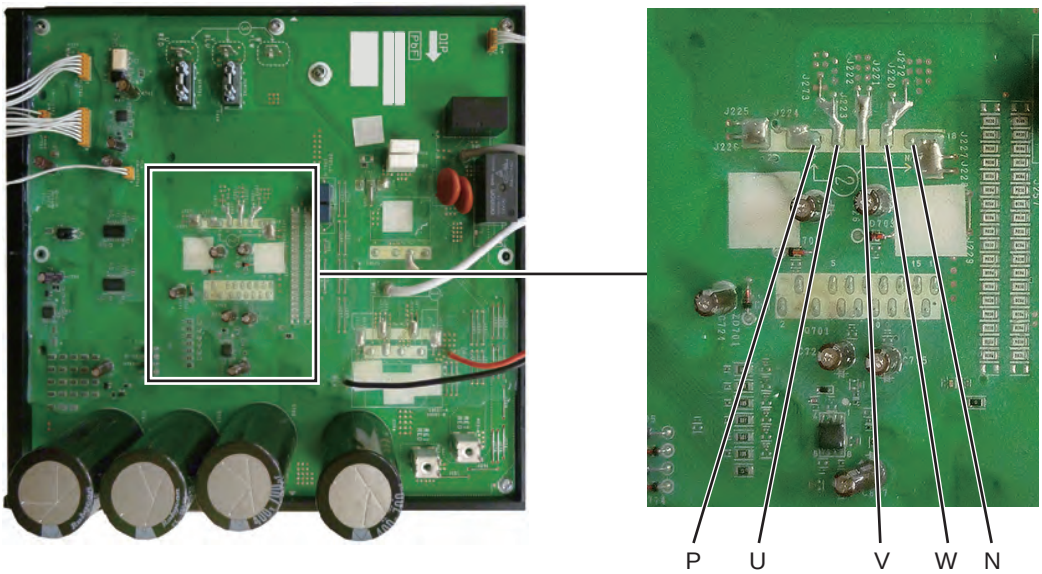
■ **HIC-PCB : ACXA73-3555* (U-71PZH3E5)**



■ **HIC-PCB : ACXA73-3554* (U-100PZH3E5)**



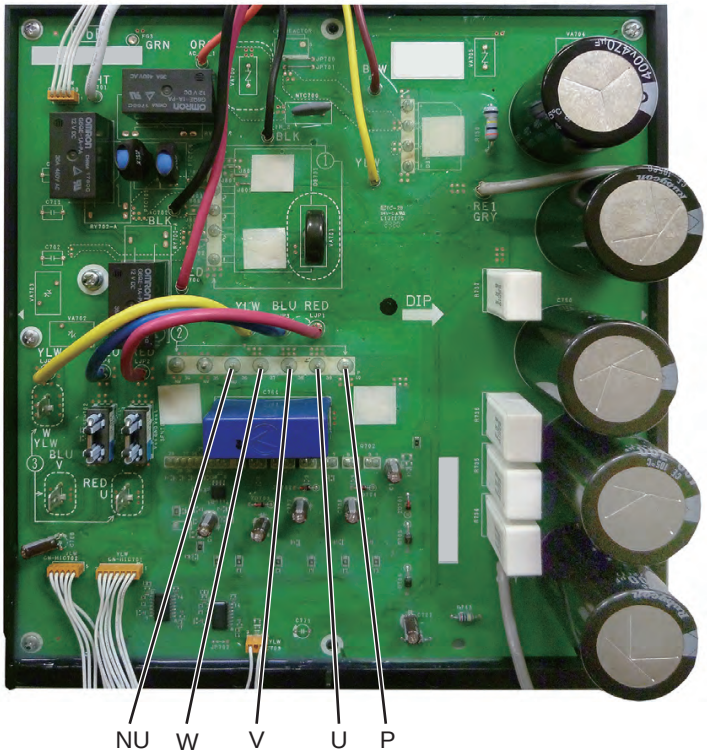
■ **HIC-PCB : ACXA73-3553* (U-125PZH3E5, U-140PZH3E5)**



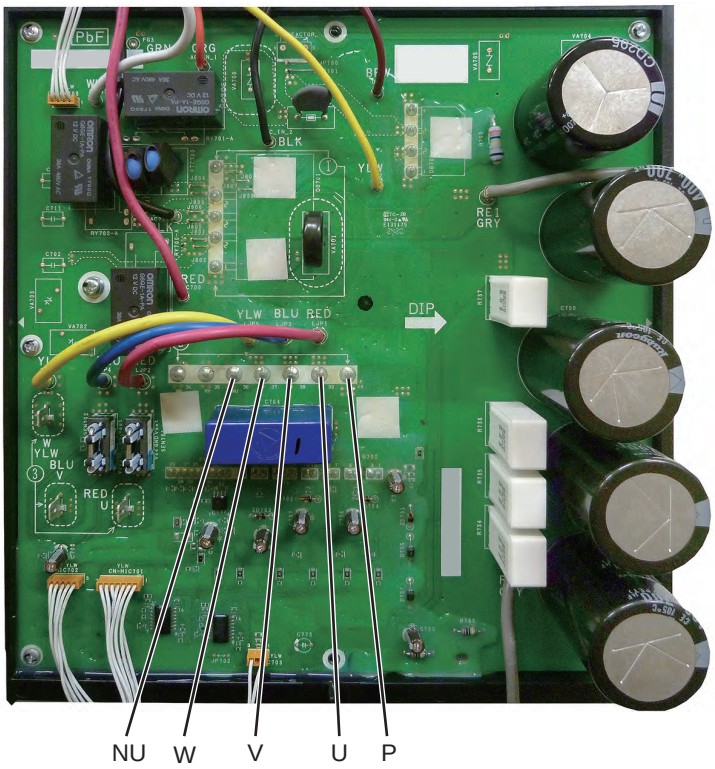
5

For 3-Phase Outdoor Unit HIC PCB

■ **HIC-PCB : ACXA73-3559* (U-71PZH3E8)**



■ **HIC-PCB : ACXA73-3558* (U-100PZH3E8, U-125PZH3E8, U-140PZH3E8)**



5-3. Inspection of Parts (Outdoor Unit)

(1) Electronic control valve (MOV1)

U-25PZ3E5, U-36PZ3E5, U-50PZ3E5, U-60PZ3E5A, U-71PZ3E5A
U-36PZH3E5, U-50PZH3E5, U-60PZH3E5

- STM / STM1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN-STM / CN-STM1 connector (white) on the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used.
  Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)
  If the voltage is normal, measure the resistance between connector pin 5 and pins 1 through 4.
  Resistance between pin 5 and pins 1 through 4 should be approximately 46 Ω for all. (If the result is 0 Ω or, ∞ then replace the coil.)

U-100PZ3E5, U-125PZ3E5, U-140PZ3E5
U-100PZ3E8, U-125PZ3E8, U-140PZ3E8

- MOV1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN-MOV1 connector (5P, white) on the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used.
  Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)
  If the voltage is normal, measure the resistance between connector pin 5 and pins 1 through 4.
  Resistance between pin 5 and pins 1 through 4 should be approximately 46 Ω for all. (If the result is 0 Ω or, ∞ then replace the coil.)

U-71PZH3E5, U-100PZH3E5, U-125PZH3E5, U-140PZH3E5
U-71PZH3E8, U-100PZH3E8, U-125PZH3E8, U-140PZH3E8

- MOV1: Measure the voltage between plug pin 5 and pins 1 through 4 at the CN-MOV1 connector (5P, white) on the outdoor unit control PCB. (Because of the pulse output, a simplified measurement method is used.
  Set the tester to the 12 V range; if the value displayed is approximately 4 V, then the voltage is normal.)
  If the voltage is normal, measure the resistance between connector pin 5 and pins 1 through 4.
  Resistance between pin 5 and pins 1 through 4 should be approximately 46 Ω for all. (If the result is 0 Ω or, ∞ then replace the coil.)

(2) Outdoor Unit Fan Motor

Model No.	Part No. (Panasonic)	Part No.
U-25PZ3E5	L6CAYYYL0064	NFD-52FV-D840-16
U-36PZ3E5	L6CAYYYL0064	NFD-52FV-D840-16
U-50PZ3E5	L6CAYYYL0064	NFD-52FV-D840-16
U-60PZ3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-71PZ3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-100PZ3E5	L6CBYYYL0302	ZKSP-160-8-1
U-125PZ3E5	L6CBYYYL0302	ZKSP-160-8-1
U-140PZ3E5	L6CBYYYL0302	ZKSP-160-8-1
U-100PZ3E8	L6CBYYYL0302	ZKSP-160-8-1
U-125PZ3E8	L6CBYYYL0302	ZKSP-160-8-1
U-140PZ3E8	L6CBYYYL0302	ZKSP-160-8-1
U-36PZH3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-50PZH3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-60PZH3E5	L6CAYYYL0076	NFD-62FV-D840-6
U-71PZH3E5	L6CBYYYL0283	NFD-71FW-D890-5
U-100PZH3E5	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-125PZH3E5	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-140PZH3E5	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-71PZH3E8	L6CBYYYL0283	NFD-71FW-D890-5
U-100PZH3E8	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-125PZH3E8	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6
U-140PZH3E8	L6CBYYYL0283 L6CBYYYL0284	NFD-71FW-D890-5 NFD-71FW-D890-6

(3) Coil Resistance of Compressor

Model No.	Part No. (Panasonic)	Part No.	Inverter compressor (at 20°C)		
			U - V	V - W	U - W
U-25PZ3E5	ACXB09-03470	9RS102XFA21	1.211	1.211	1.211
U-36PZ3E5	ACXB09-03470	9RS102XFA21	1.211	1.211	1.211
U-50PZ3E5	ACXB09-04960	9RD132XAB21	1.897	1.882	1.907
U-60PZ3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-71PZ3E5	ACXB09-04950	9KD240XBA21	0.720	0.708	0.726
U-100PZ3E5	ACXB09-05130	9VD330XAB21	0.872	0.884	0.859
U-125PZ3E5	ACXB09-05140	9VD420XAB21	0.659	0.670	0.650
U-140PZ3E5	ACXB09-05140	9VD420XAB21	0.659	0.670	0.650
U-100PZ3E8	ACXB09-05180	9VD330XBA21	3.071	3.125	3.031
U-125PZ3E8	ACXB09-05190	9VD420XBA21	2.510	2.561	2.475
U-140PZ3E8	ACXB09-05190	9VD420XBA21	2.510	2.561	2.475
U-36PZH3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-50PZH3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-60PZH3E5	ACXB09-04940	9RD132XAA21	1.897	1.882	1.907
U-71PZH3E5	ACXB09-08270	9RD198XAE21	1.313	1.298	1.308
U-100PZH3E5	ACXB09-06840	9VD420XAC21	0.659	0.670	0.650
U-125PZH3E5	ACXB09-06840	9VD420XAC21	0.659	0.670	0.650
U-140PZH3E5	ACXB09-06840	9VD420XAC21	0.659	0.670	0.650
U-71PZH3E8	ACXB09-08280	9RD198XBB21	5.176	5.185	5.176
U-100PZH3E8	ACXB09-06850	9VD420XBB21	2.510	2.561	2.475
U-125PZH3E8	ACXB09-06850	9VD420XBB21	2.510	2.561	2.475
U-140PZH3E8	ACXB09-06850	9VD420XBB21	2.510	2.561	2.475

5-4. How to Replace Fan Motor
Middle Static Pressure Duct Type
Removing Fan Motor

1. Turn off the power supply.

WARNING

ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

2. Remove the Lid of electrical component box and the wiring cover. (Screws × 5 locations: Fig. 1)
   Make sure the PC board should not be electrified.
   Power supply LED should be lit off on PC board. (Fig. 2)

Fig. 1

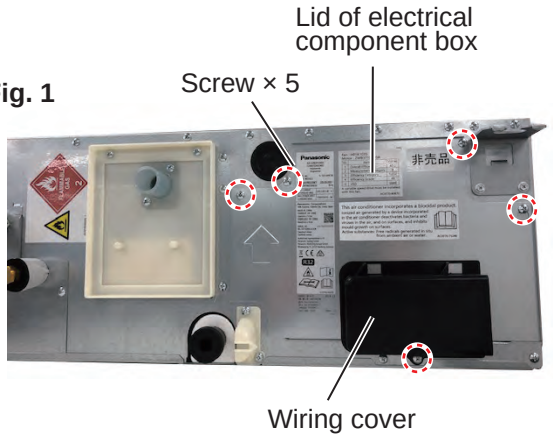
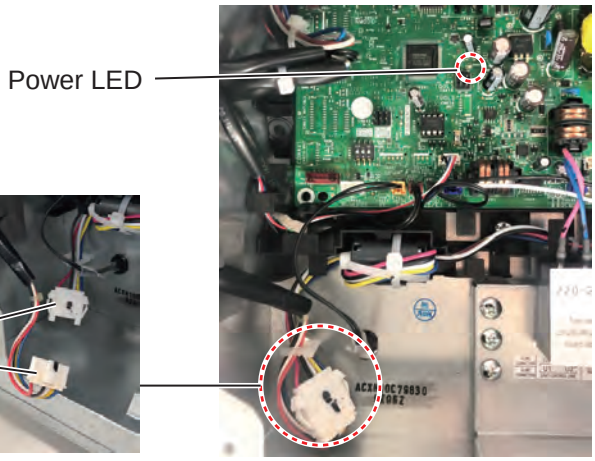
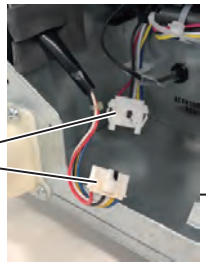


Fig. 2



3. Disconnect the interconnector in the middle of the wiring to the fan motor. (Fig. 2)

Fig. 3



4. Remove the bottom plate. (Fig. 3)

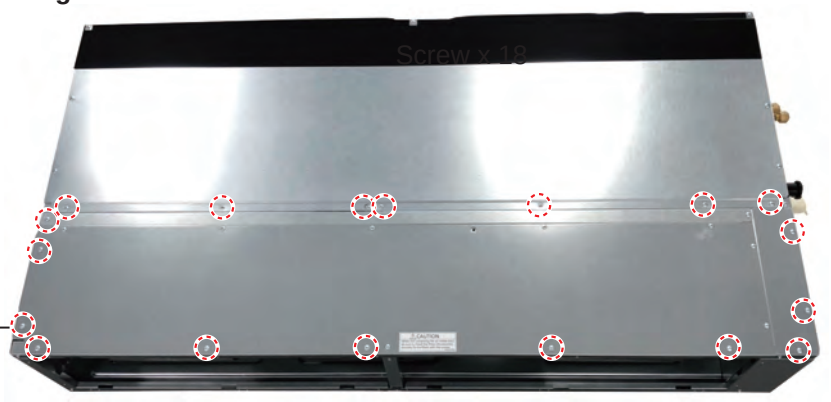
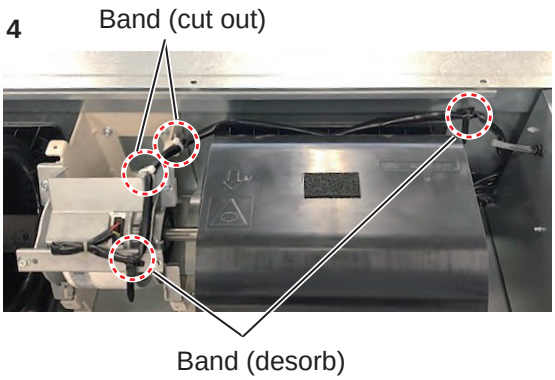


Fig. 4



5. Disconnect the wires. (Fig. 4)

6. Peel off the tape on the fan casing and remove two screws. (Fig. 6, Fig. 7, Fig. 8)
   Disconnect four (4) clutches (Fig. 7, Fig. 8) fixing the lower side of the fan casing.
   Then pull off the fan casing.

Fig. 5

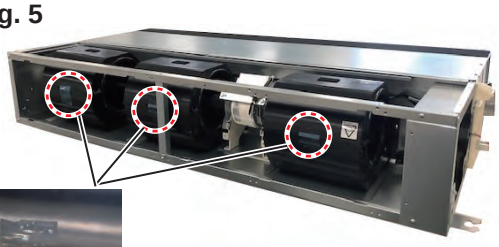


Fig. 6

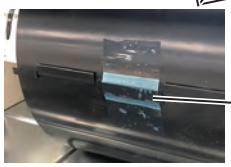


Fig. 7

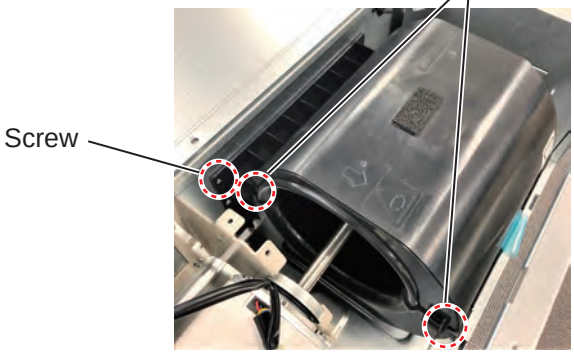


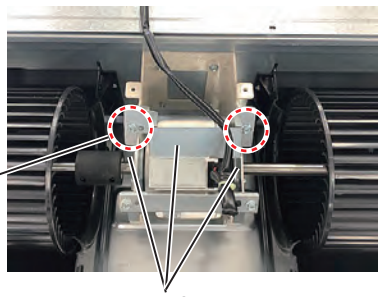
Fig. 8



7. Remove the screws (M5 × 2 locations: Fig. 9) fixing the fan motor. It is recommended that a nutdriver (8mm) be used.

8. Remove the bracket and then remove the fan and fan motor (Fig. 9).

Fig. 9



9. Loosen the fixed screw with a hexagon wrench (3mm, over 100mm in length) and remove the fan (Fig. 10).

Fig. 10

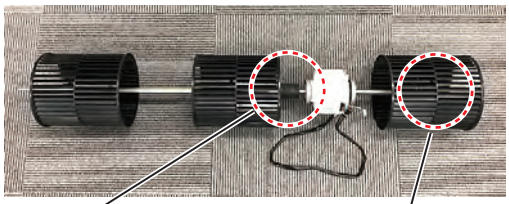
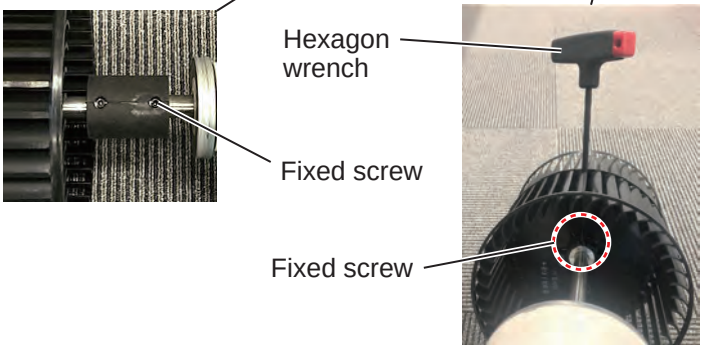


Fig. 11



Installing Fan Motor

1. For installation, reverse the procedure above.
2. Fine tune so that the fan can be positioned in the center of the fan casing.

Fig. 12

Wall Mounted Type
Removing Fan Motor

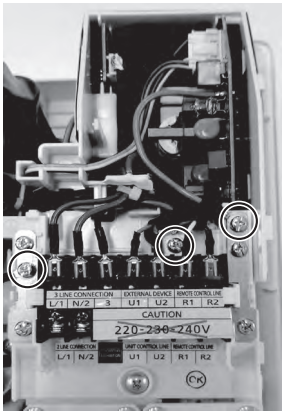


1. Remove 4 screws (4×16) and detach the front grille.

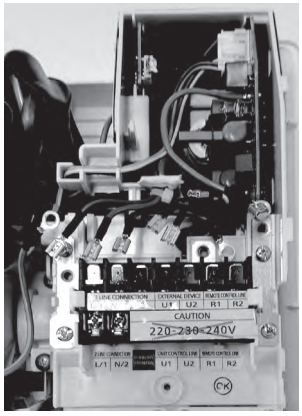
2. Remove the electrical cover.



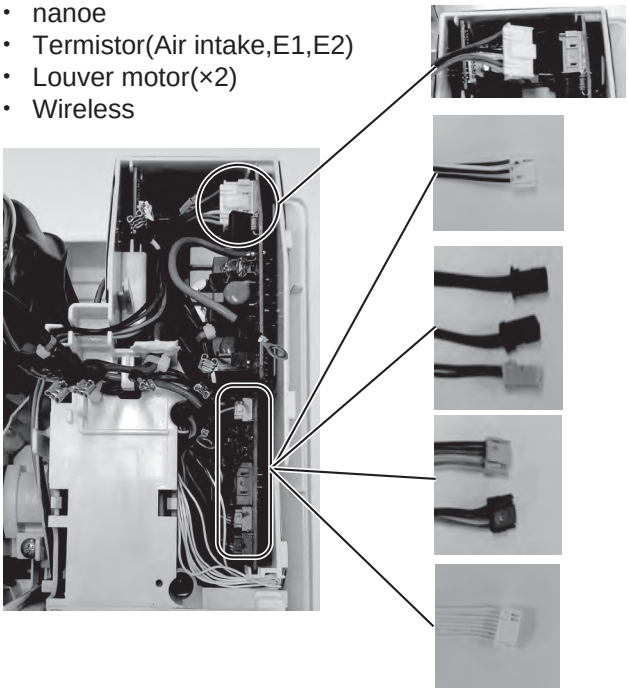
3. Remove 3 fixing screws from the terminal and ground wires.



4. Remove 1 screw (4×10) and lift the terminal cover.

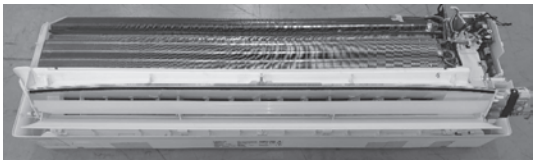


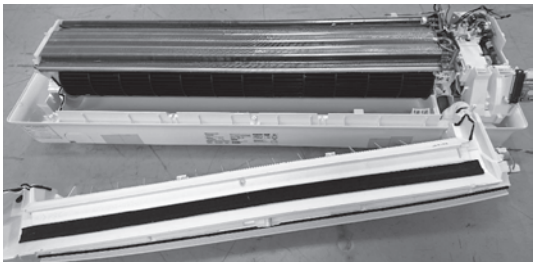
5. Remove the connector.
   - FAN motor
   - nanoe
   - Termistor(Air intake,E1,E2)
   - Louver motor(×2)
   - Wireless



5

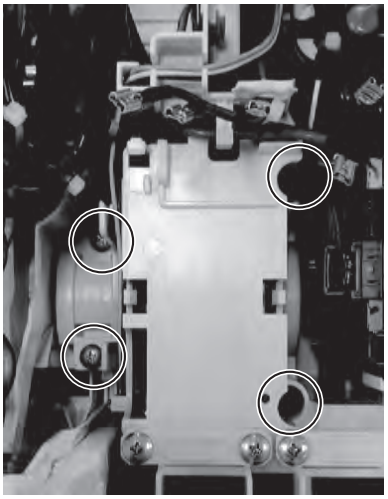
6. Remove the air discharge grille.



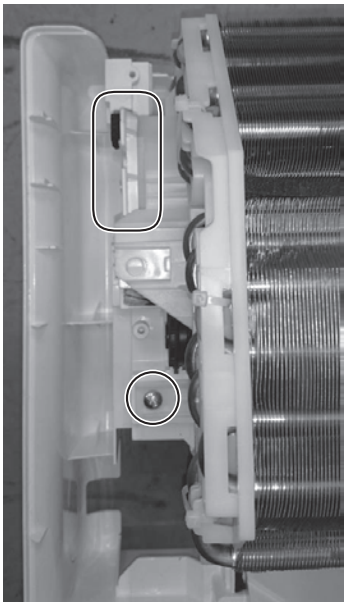


* Photo shows the right-hand drain.

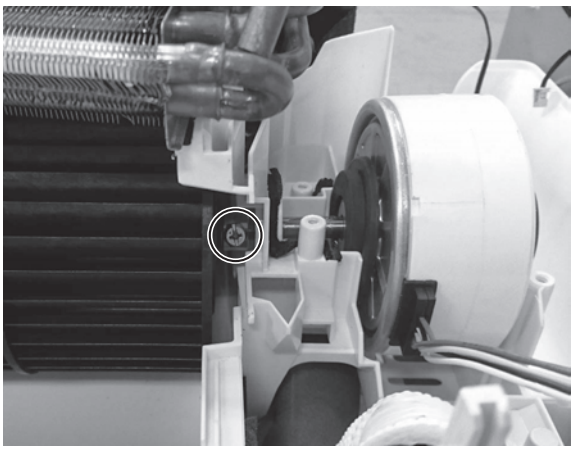
7. Remove 4 screws (4×16) and detach the electrical component box.



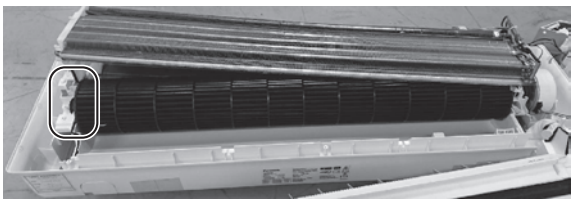
8. Remove 1 screw (4×12).
Disengage the tabs and lift the heat exchanger.



9. Remove the fixing screw of the fan.



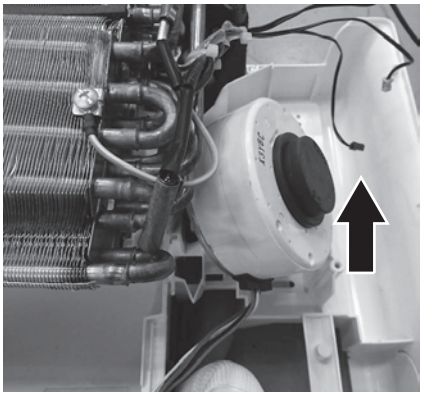
10. Disengage the fan shaft.



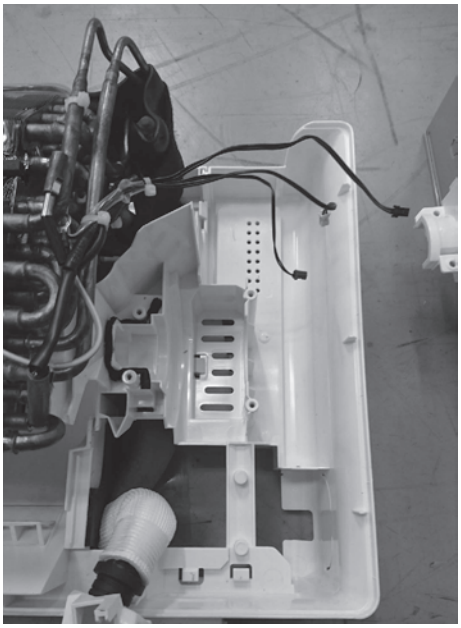
11. Pull the fan toward the front left side and remove it.



12. Lift the fan motor and remove it.

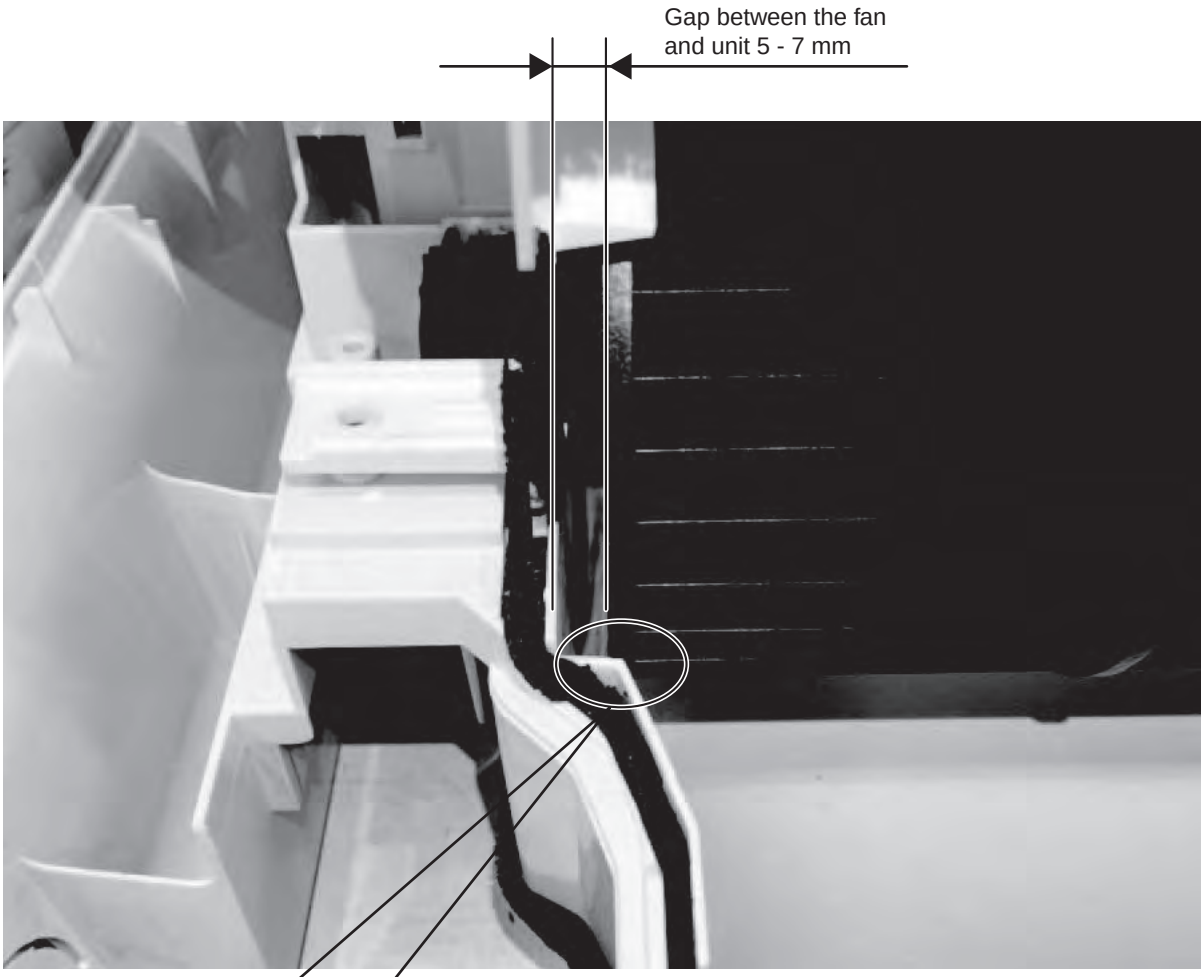


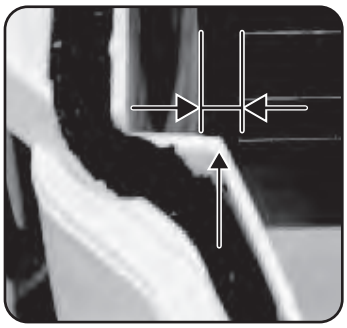
13. Uninstallation is completed.



Installing Fan Motor

Carry out installation in reverse order to assemble.
Fan installation should be made following the figure below while confirming the position.





Reference
Fan plate and corner of the wall of unit should be in the same position.

NOTE
Noise or damage to the fan can be caused by misalignment of the motor due to its mounting position.

4-Way Cassette 60 × 60 Type
Removing Fan Motor

Turn off the power supply.

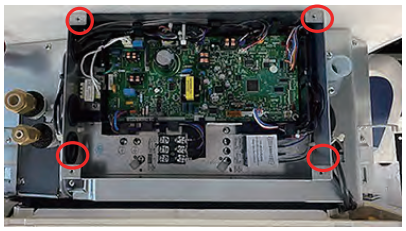
WARNING

ELECTRICAL SHOCK CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH.

■ Removing ceiling panel

(1) Disconnect the ceiling panel wiring from the terminal board of indoor unit.

① Remove the 4 screws on the power supply board and remove the cover of the power supply board.



② Remove the motor connector on the panel.

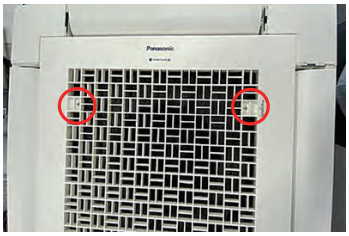


③ Remove the motor wire from the wiring band.



(2) Removing ceiling panel from the indoor unit.

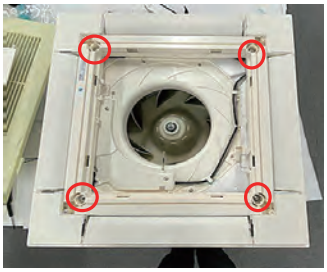
④ Remove the 2 screws on the latch of the air intake grille.



⑤ Remove the air intake grille fall prevention string.



⑥ Remove the 4 screws.



⑦ Remove the two temporary fixing latches of the panel and remove the panel.





5

■ Removing Air guider

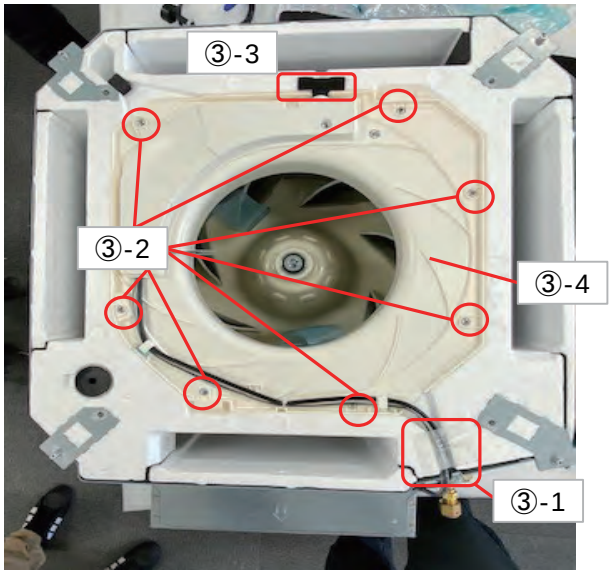
① Remove the air intake sensor and nanoe connector.



② Remove the wiring band on the side of the electrical box and remove the wiring. Use a tool such as a flat-blade screwdriver to loosen the wiring band.







③-1 Remove the tape that secures the wiring.

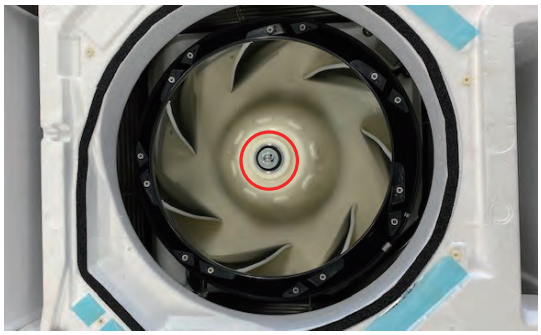
③-2 Remove 7 screws.

③-3 Remove the sealing material from the “nanoe” air outlet.
Do not dispose of the sealing material as it needs to be reused during installation. If it is damaged, use service parts described below.
(Service parts: Parts code / ACXG32-05500)

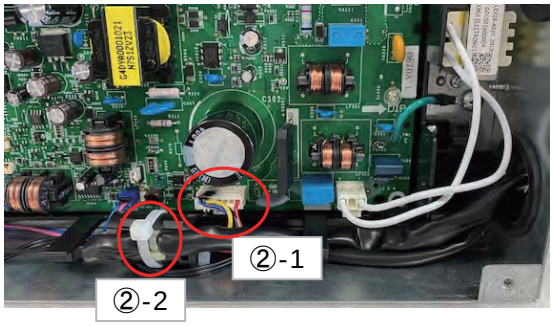
③-4 Remove the air guider.

■ Removing Fan Motor

① With the air guider removed,
remove the nut and remove the fan.



②-1 Remove the motor connector.
②-2 Cut the band that fixes the core.



③ Cut the band that fixes the core and remove the core.
Do not dispose the core as it will be reused.
If you disposed of it, be sure to arrange service parts.
(Service parts: Parts code / J0KF00000067)



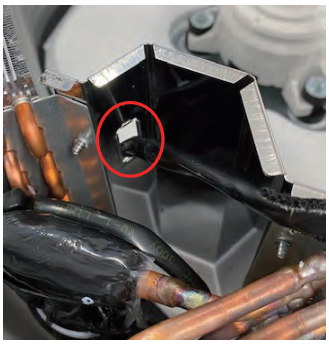


④ Remove the two screws and two claws,
and remove the piping fixing parts.
∗When installing, to confirm that the two
claws are fixed.



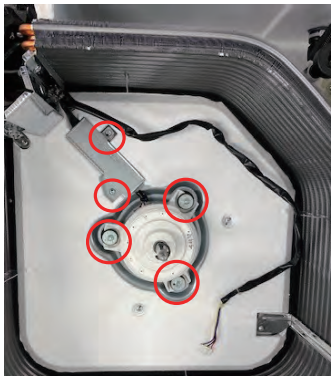
⑤ Remove the motor wiring. Since the sealing
material wrapped around the wiring cannot be
reused, be sure to arrange service parts and
attach them to the replaced motor.
(Service parts: Parts code / ACXG32-0570)





⑥ Remove the wiring band.
Remove the 2 screws and 3 nuts and remove the motor.





5-5. Removing Drain Pan
4-Way Cassette 60 × 60 Type

Turn off the power supply.

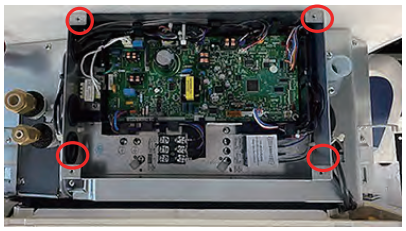
WARNING

ELECTRICAL SHOCK CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH.

■ Removing ceiling panel

(1) Disconnect the ceiling panel wiring from the terminal board of indoor unit.

① Remove the 4 screws on the power supply board and remove the cover of the power supply board.



② Remove the motor connector on the panel.

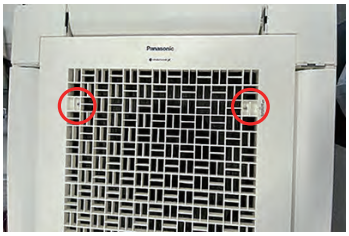


③ Remove the motor wire from the wiring band.



(2) Removing ceiling panel from the indoor unit.

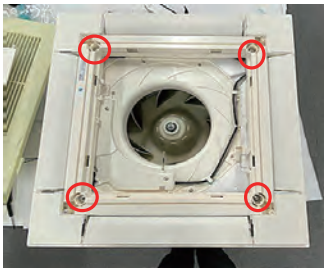
④ Remove the 2 screws on the latch of the air intake grille.



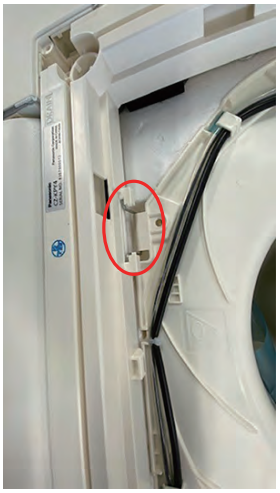
⑤ Remove the air intake grille fall prevention string.



⑥ Remove the 4 screws.



⑦ Remove the two temporary fixing latches of the panel and remove the panel.





5

■ Removing Air guider

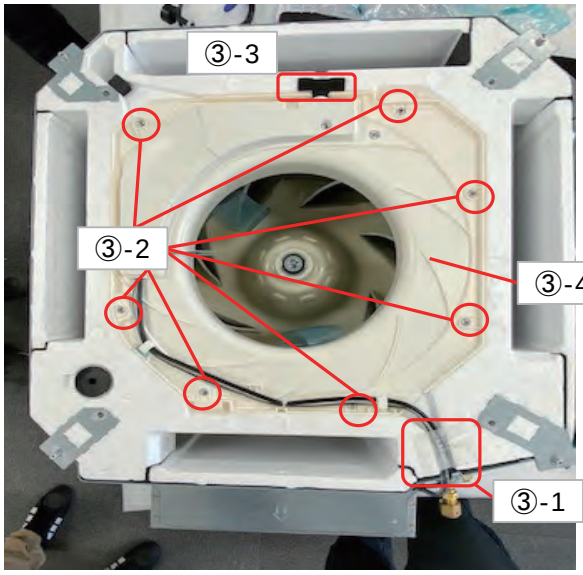
① Remove the air intake sensor and nanoe connector.



② Remove the wiring band on the side of the electrical box and remove the wiring. Use a tool such as a flat-blade screwdriver to loosen the wiring band.







③-1 Remove the tape that secures the wiring.

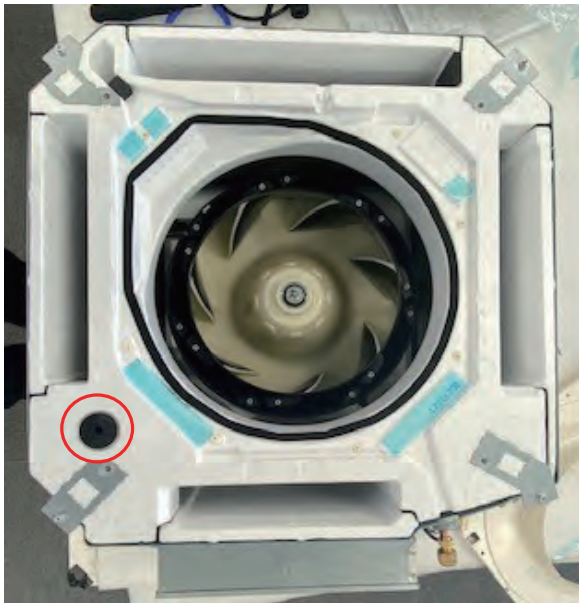
③-2 Remove 7 screws.

③-3 Remove the sealing material from the “nanoe” air outlet.
Do not dispose of the sealing material as it needs to be reused during installation. If it is damaged, use service parts described below.
(Service parts: Parts code / ACXG32-05500)

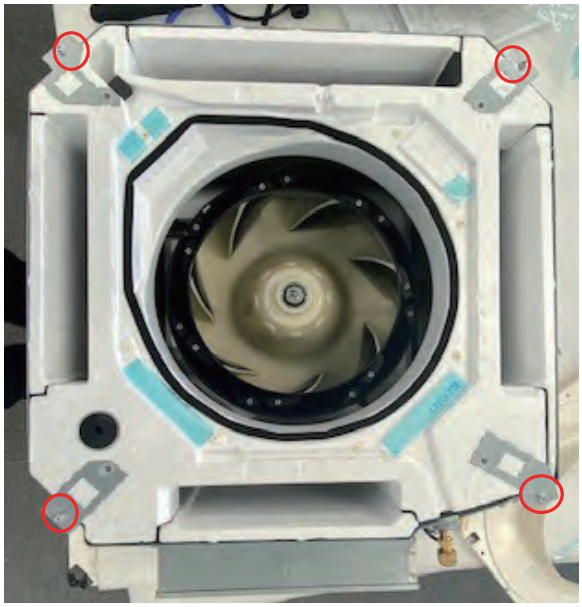
③-4 Remove the air guider.

■ Removing Drain Pan

① Remove the rubber cap and drain the drain water.



② Remove the 4 screws and remove the Drain Pan.



5-6. Replacing nanoe unit
4-Way Cassette 60 × 60 Type

Turn off the power supply.

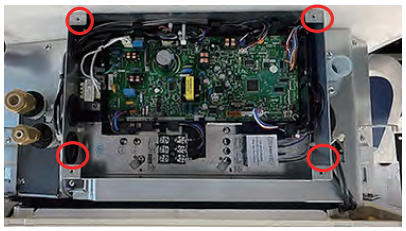
WARNING

ELECTRICAL SHOCK CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH.

■ Removing ceiling panel

(1) Disconnect the ceiling panel wiring from the terminal board of indoor unit.

① Remove the 4 screws on the power supply board and remove the cover of the power supply board.



② Remove the motor connector on the panel.

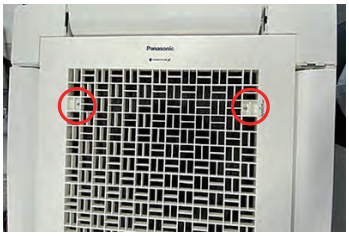


③ Remove the motor wire from the wiring band.



(2) Removing ceiling panel from the indoor unit.

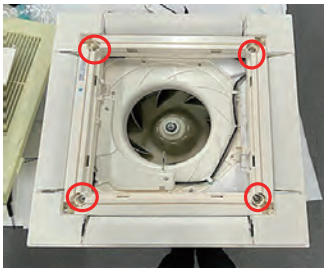
④ Remove the 2 screws on the latch of the air intake grille.



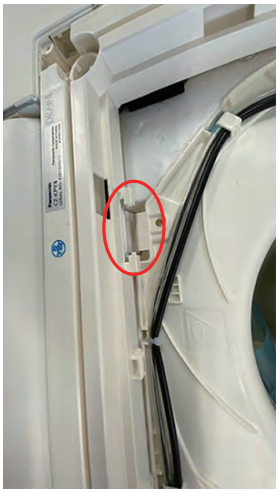
⑤ Remove the air intake grille fall prevention string.



⑥ Remove the 4 screws.



⑦ Remove the two temporary fixing latches of the panel and remove the panel.





■ Replacing nanoe unit

① Remove the air intake sensor and nanoe connector.

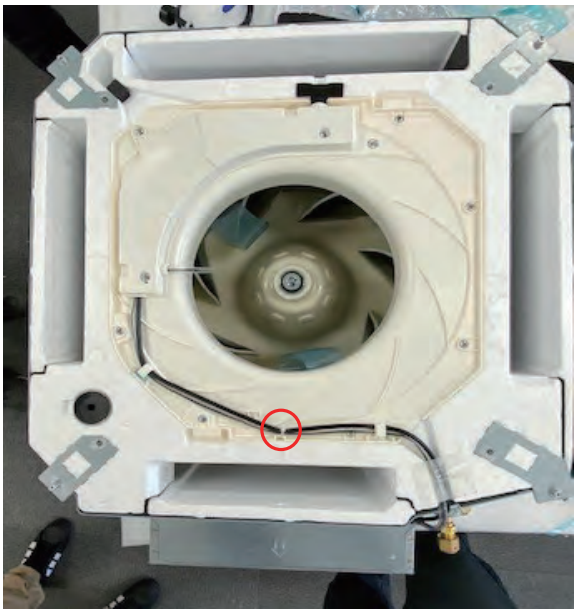


② Remove the wiring band on the side of the electrical box and remove the wiring. Use a tool such as a flat-blade screwdriver to loosen the wiring band.

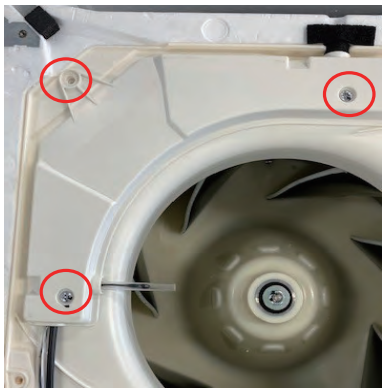




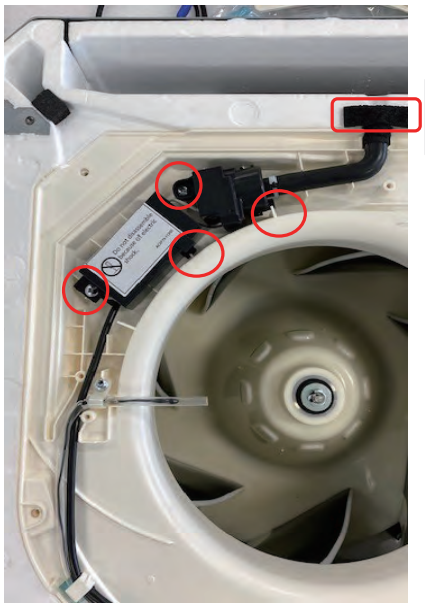
③ Cut the wiring band.



④ Remove the 3 screws and remove the cover.



⑤ Remove the two claws, two screws and the sealing material, and remove nanoe unit.
* When installing, to confirm that the two claws are fixed.
** Do not dispose of the sealing material as it needs to be reused during installation.
If it is damaged, use service parts described below.
(Service parts: Parts code / ACXG32-05500)



5-7. How to Replace Receiver PCB of Wireless remote controller CZ-RWRY3
Removing Receiver PCB

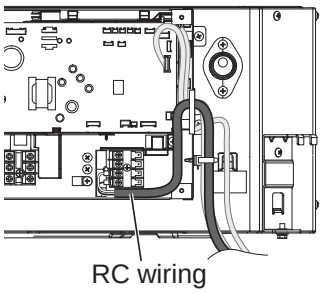
1. Turn off the power supply.

WARNING

ELECTRICAL SHOCK CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH.

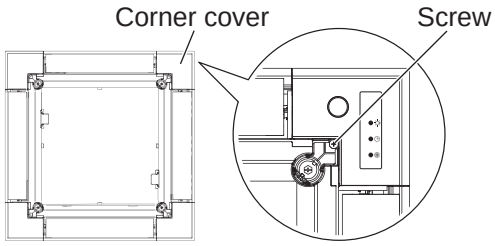
2. Disconnect the RC wiring from the terminal board of indoor unit. (Fig. 5-7-1)

Fig. 5-7-1



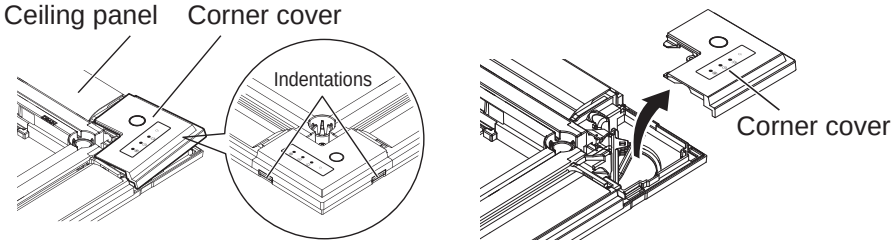
3. Remove the screw fixing the corner cover. (Fig. 5-7-2)

Fig. 5-7-2



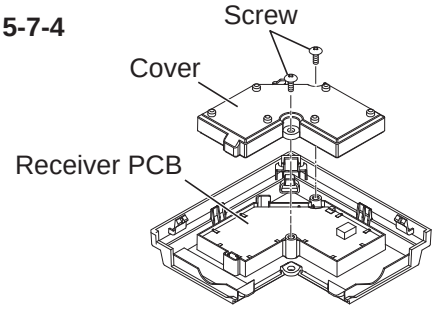
4. Put your hands into the indentations on the left and right of the ceiling panel and remove the corner cover. (Fig. 5-7-3)

Fig. 5-7-3



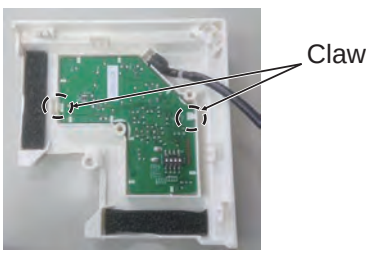
5. Remove the cover from the receiver. (Fig. 5-7-4)

Fig. 5-7-4



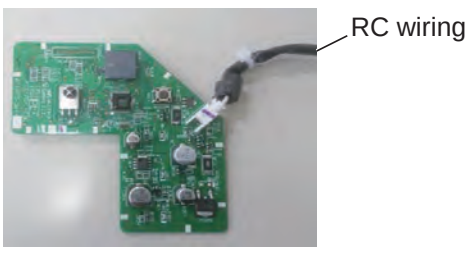
6. Remove from the claws and take out the Receiver PCB. (Fig. 5-7-5)

Fig. 5-7-5



7. Disconnect the RC wiring and replace the Receiver PCB. (Fig. 5-7-6)

Fig. 5-7-6



8. Return to the installed state by reversing the procedure.

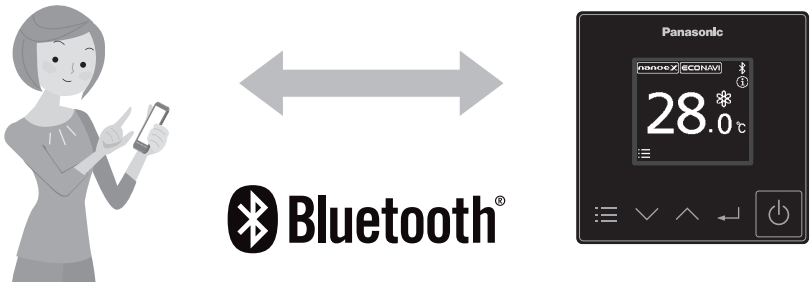
6. EEPROM Setting using the CZ-RTC6 series remote controller

6-1. Preparation for EEPROM Setting using the CZ-RTC6 series remote controller 6-1-1
6-2. EEPROM Setting using the CZ-RTC6 series remote controller 6-2-1
6-2-1. Detailed Settings Function 6-2-1
6-2-2. List of Detailed Setting Items 6-2-8

6-1. Preparation for EEPROM Setting using the CZ-RTC6 series remote controller

To set EEPROM, you can use the 6 series remote control (CZ-RTC6 series) or install the Panasonic H&C Control App.
You can use the "Panasonic H&C Control App" on your mobile device to operate the air conditioning unit, see "7-9 Panasonic H&C Control App" for details on installation and initial settings.

This app is compatible with the following remote controllers.
Check the model number shown in the label on the bottom of the remote controllers.
Models: CZ-RTC6BL / CZ-RTC6BLW (CZ-RTC6 incompatible)



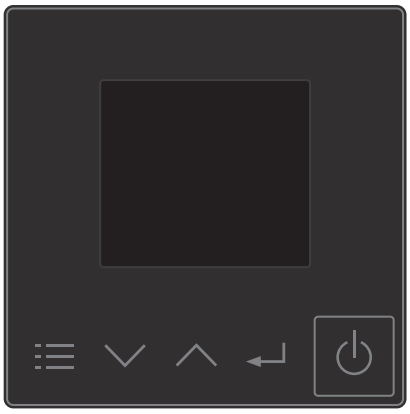
6

6-2. EEPROM Setting using the CZ-RTC6 series remote controller
6-2-1. Detailed Settings Function

This allows the system address, indoor unit address, and other settings to be made for the individual or group-control indoor unit to which the remote controller used for detailed settings is connected.
When detailed settings mode is engaged, operation stops at the individual or group-control indoor unit where the remote controller used for detailed settings is connected. Simple settings items can also be set at this time.

<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.



CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen (Fig. 6-2-1) appears on the LCD display.

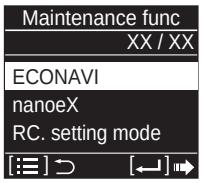


Fig. 6-2-1

(2) Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” (Fig. 6-2-2) on the LCD display and press the ↵ button.

The “Detailed settings” screen (Fig. 6-2-3) appears on the LCD display.

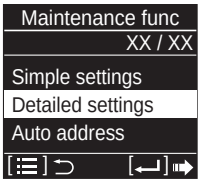


Fig. 6-2-2

(3) Select the “Unit no.” (Fig. 6-2-3) by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step (4).

NOTE

If the address setting is not set up correctly, the “ALL” will be displayed in the “Unit no.”.

If the ☰ button is pressed, proceed to Step (6).

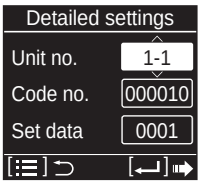


Fig. 6-2-3

(4) Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”. (Fig. 6-2-4)

Change the “Code no.” one digit at a time so that it becomes [0000XX] along with the following procedures.

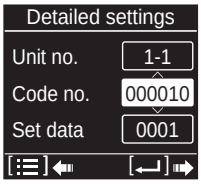


Fig. 6-2-4

Change the value (Fig. 6-2-5) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

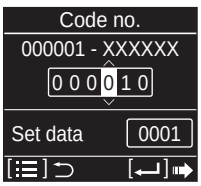


Fig. 6-2-5

Change the value (Fig. 6-2-6) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

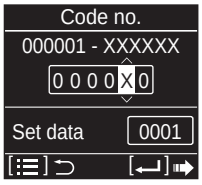


Fig. 6-2-6

6

Change the value (Fig. 6-2-7) by pressing the ▽ or △ button.
After changing all digits, press the ↵ button and proceed to Step (5).

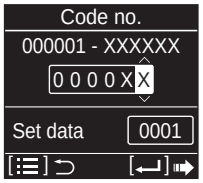


Fig. 6-2-7

(5) Select one of the Setting Data “YYYY” by pressing the ▽ or △ button.
After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from Fig. 6-2-5.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button twice (the display returns to Step (3)).

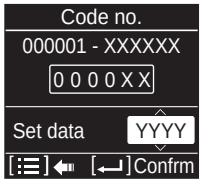


Fig. 6-2-8

(6) If the ☰ button is pressed under the display Step (3) the following display (Detailed setting-end screen) (Fig. 6-2-9) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button.
(Return to normal remote controller display.)

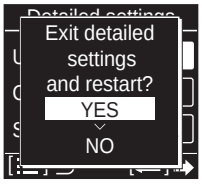


Fig. 6-2-9

6

<Procedure of Panasonic H&C Control App>

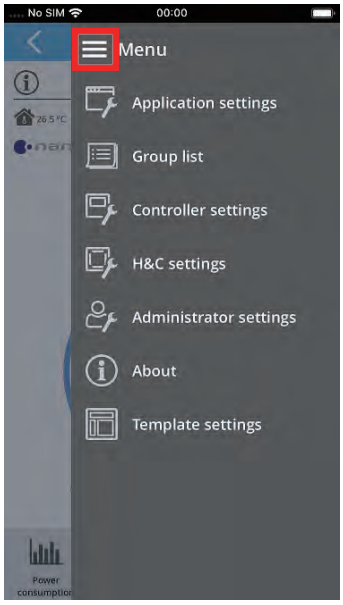
1. Tap “ ☰ ”

   Open Menu list.



2. Tap “ ☰ ” for 3 seconds or longer and release.

   Tap “ ☰ ” for 3 seconds or longer and release again.



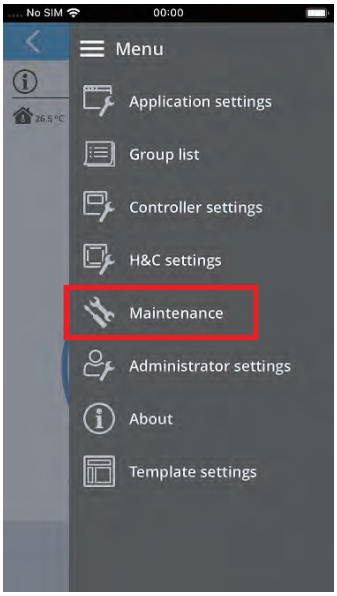
6

3. If successful, the menu screen will close. If Menu list does not close, perform step 2 again.



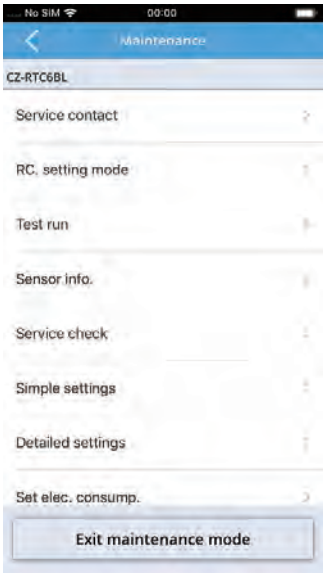
4. Open Menu list again,

Maintenance is displayed.



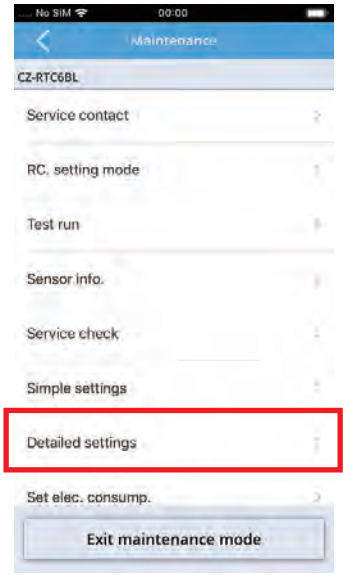
5. Tap “ Maintenance ”

Open Menu list of “Maintenance” .

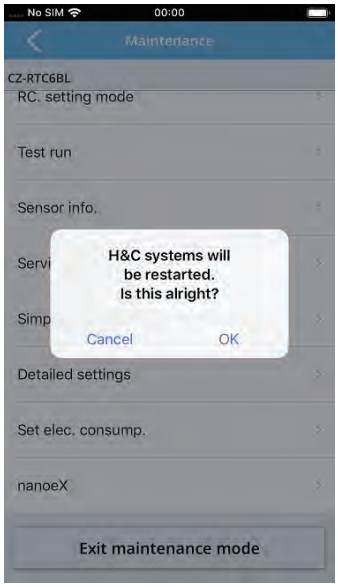


Menu list of “Maintenance”

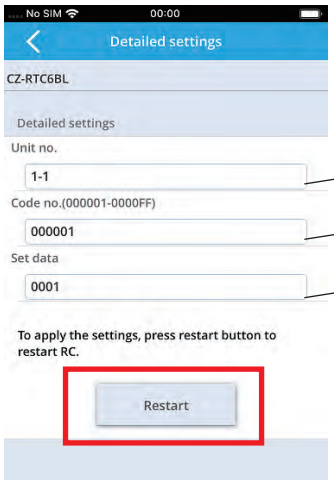
6. Tap “ Detailed settings ”



7. A dialog will appear stating that a reboot will occur. If there is no problem, tap “ OK ” .



8. Set “ Unit no.” / “ Code no.” / “ Set data ” .
Then tap “ Restart ”

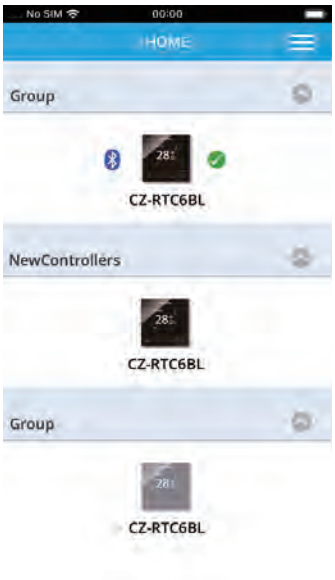


Change “Unit no”

Change “Code no” See “6-2-2. List of Detailed Setting Items”

Change “Set data” See “6-2-2. List of Detailed Setting Items”

9. The unit will restart and return to the HOME screen.



6-2-2. List of Detailed Setting Items

Item code	Item	Setting data	
0002ED	Silent mode	0000	normal (Setting at factory shipment)
		0001	Auto silent
		0002	Capacity priority
0002EE	OPT mode Setting	0000	Quiet/EXCT (Setting at factory shipment)
		0001	DEMAND
0002F0	Measures against smell when indoor unit cooling	0000	Invalid (Setting at factory shipment)
		0001	Measures against smell
0002F2	Demand 1 current (%)	0000	40%
		0001	45%
		0002	50%
		…	
		0007	75% (Setting at factory shipment)
		…	
		0012	100%
		…	
		0018	130%
		0019	No control
0002F3	Demand 2 current (%)	0000	40%
		0001	45%
		0002	50% (Setting at factory shipment)
		…	
		0007	75%
		…	
		0012	100%
		…	
		0018	130%
		0019	No control
0002F4	Energy saving current (%)	0000	40%
		0001	45%
		0002	50%
		…	
		0007	75% (Setting at factory shipment)
		…	
		0012	100%
		…	
		0018	130%
		0019	No control
000301	Outdoor unit silent mode	0001	Silent mode 1 (Setting at factory shipment)
		0002	Silent mode 2
		0003	Silent mode 3
000303	Capacity matching ignored	0000	Depending on the settings of the outdoor unit (Setting at factory shipment)
		0001	Invalid
		0002	Valid

7. REMOTE CONTROLLER FUNCTIONS SECTION

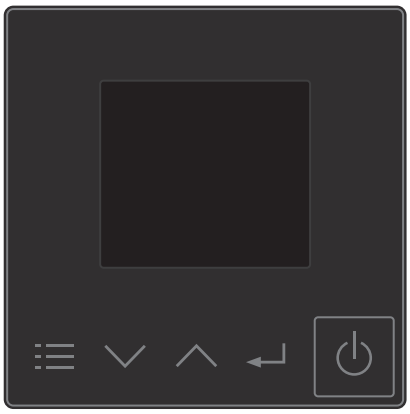
7-1. Simple Settings Function 7-1-1
7-2. List of Simple Setting Items 7-2-1
7-3. Detailed Settings Function 7-3-1
7-4. List of Detailed Setting Items 7-4-1
7-5. Simple Setting Items 7-5-1
7-6. Detailed Setting Items 7-6-1
7-7. Remote Controller Servicing Functions 7-7-1
7-8. Test Run Function 7-8-1
7-9. Panasonic H&C Control App 7-9-1-1

7-1. Simple Settings Function

This allows the filter lifetime, operating mode priority change, central control address, and other settings to be made for an individual or groupcontrol indoor unit to which the remote controller used for simple settings is connected. When simple settings mode is engaged, operation stops at the individual or group-control indoor unit to which the remote controller for simple settings is connected.

<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.



CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen (Fig. 7-1-1) appears on the LCD display.

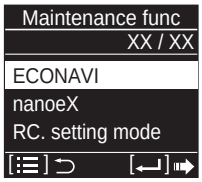


Fig. 7-1-1

(2) Press the ∨ or ∧ button to see each menu.
Select “Simple settings” (Fig. 7-1-2) on the LCD display and press the ↵ button.

The “Simple settings” screen (Fig. 7-1-3) appears on the LCD display.

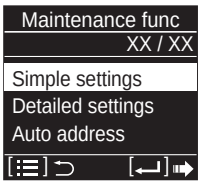


Fig. 7-1-2

(3) Select the “Unit no.” (Fig. 7-1-3) by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step (4).

NOTE

If the ☰ button is pressed, proceed to Step (6).

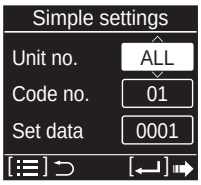


Fig. 7-1-3

(4) Select the “Code no.” (Fig. 7-1-4) by pressing the ∨ or ∧ button.
After selecting “Code no.”, press the ↵ button and proceed to Step (5).

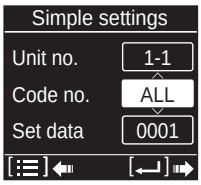


Fig. 7-1-4

(5) Select the “Set data” (Fig. 7-1-5) by pressing the ∨ or ∧ button.
After selecting “Set data”, press the ↵ button.

The “Simple settings” screen (Fig. 7-1-6) appears on the LCD display (proceed to Step (6)).

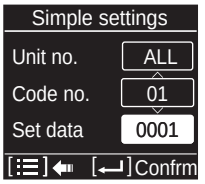


Fig. 7-1-5

(6) If the ☰ button is pressed under the display (Fig. 7-1-6), the following display (Simple setting-end screen) (Fig. 7-1-7) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button. (Return to normal remote controller display.)

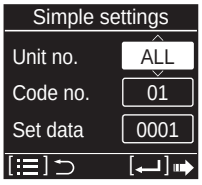


Fig. 7-1-6

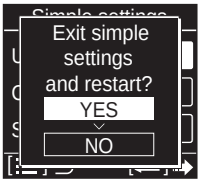
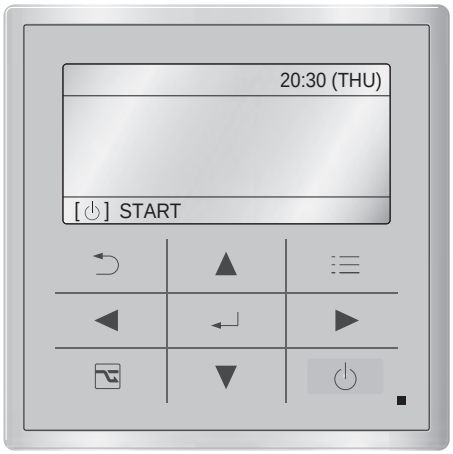


Fig. 7-1-7

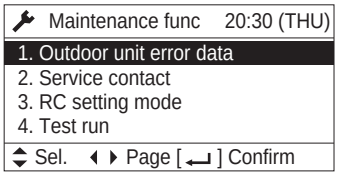
7

<Procedure of CZ-RTC5B>

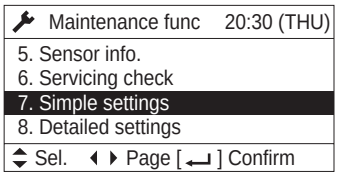


CZ-RTC5B

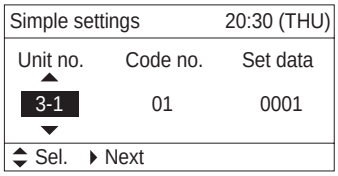
(1) Keep pressing the ⮌, ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



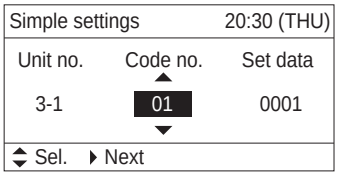
(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “7. Simple settings” on the LCD display and press the ↵ button.



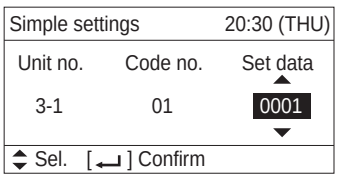
The “Simple settings” screen appears on the LCD display.
Select the “Unit no.” by pressing the ▼ or ▲ button for changes.



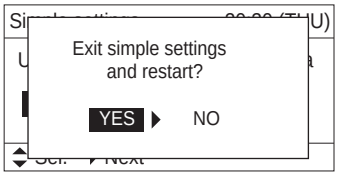
(3) Select the “Code no.” by pressing the ◀ or ▶ button.
Change the “Code no.” by pressing the ▼ or ▲ button.



(4) Select the “Set data” by pressing the ◀ or ▶ button.
Select one of the “Set data” by pressing the ▼ or ▲ button.
Then press the ↵ button.



(5) Select the “Unit no.” by pressing the ◀ or ▶ button and press the ⮌ button.
The “Exit simple settings and restart?” (Simple setting-end) screen appears on the LCD display.
Select “YES” and press the ↵ button.



7

<Procedure of CZ-RTC4>

(1) Press and hold the ⏻ and 🏠/🏢 buttons simultaneously for 4 seconds or longer.

(2) "SETTING", unit No. "1- 1" (or "ALL" in the case of group control), item code "01," and settings data "00XX" are displayed blinking on the remote controller LCD display (figure at right). At this time, the indoor unit fan (or all indoor unit fans in the case of group control) begins operating.

(3) If group control is in effect, press the UNIT button and select the address (unit No.) of the indoor unit to set. At this time, the fan at the indoor unit begins operating.

*If unit No. "ALL" is displayed, the same setting will be made for all indoor units.

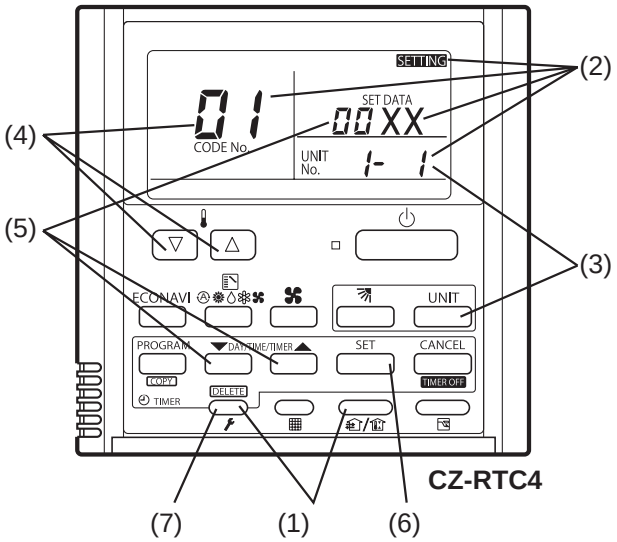
(4) Press the temperature setting ▽ / △ buttons to select the item code to change.

(5) Press the timer time DAY/ / /TIMER buttons to select the desired setting data.

*For item codes and setting data, see the following page.

(6) Press the SET button. (The display stops blinking and remains lit, and setting is completed.)

(7) Press the ⏻ button to return to normal remote controller display.



CZ-RTC4

7

7-2. List of Simple Setting Items

Code no.	Item	Set data		
		No.	Description	
01	Filter sign ON time (filter life time)	0000	Not displayed	
		0001	150 hours	
		0002	2,500 hours	
		0003	5,000 hours	
		0004	10,000 hours	
		0005	Use the filter clogging sensor.	
02	Degree of filter fouling	0000	Standard (setting at time of shipping)	
		0001	Highly fouled (Filter sign ON time is reduced to one-half the set time.)	
03	Central control address	0001	Central control address 1	
		0002	Central control address 2	
		0003	Central control address 3	
		)	)	
		0064	Central control address 64	
		0099	No central control address set (setting at time of shipping)	
04	Operating mode priority change	0000	Normal (setting at time of shipping)	
		0001	Priority	
05	Fan speed when heating thermostat is OFF		Compressor ON	Compressor OFF
		0000	Lo 1 min., LL 3 min.	LL
		0001	Lo	LL
		0002	LL	LL
		0004	Lo 1 min., LL 3 min. Lo	Lo
		0005	Lo	Lo
		0006	LL	Lo
06	Heating intake temperature shift	0000	No shift	
		0001	Shifts intake temperature 1 °C down.	
		0002	Shifts intake temperature 2 °C down.	
		0003	Shifts intake temperature 3 °C down.	
		0004	Shifts intake temperature 4 °C down.	
		0005	Shifts intake temperature 5 °C down.	
		0006	Shifts intake temperature 6 °C down.	
07	Electric heater installation	0000	No heater	
		0001	Heater installed	
08	Humidifying when heater thermostat is OFF	0000	No (setting at time of shipping)	
		0001	Yes	
0d	Permit/prohibit automatic heating/cooling	0000	Permit	
		0001	Prohibit	
0F	Cool-only	0000	Normal	
		0001	Cool only (Set “1” for item code 0D.)	

NOTE

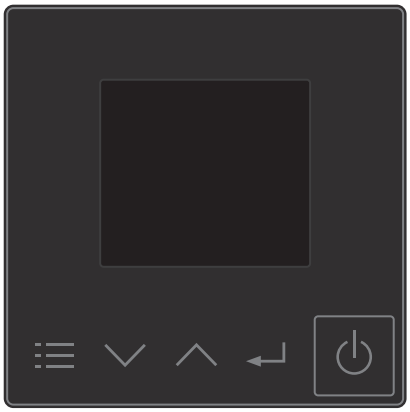
- In order to avoid water leakage and damage to the fan, do not set for humidifying when the thermostat is OFF unless a vaporizing humidifier is used.
- Consider the device purpose and type when changing the settings. Incorrect settings may result in malfunction.
- Do not change any setting data that does not appear in this list.

7-3. Detailed Settings Function

This allows the system address, indoor unit address, and other settings to be made for the individual or group-control indoor unit to which the remote controller used for detailed settings is connected.
When detailed settings mode is engaged, operation stops at the individual or group-control indoor unit where the remote controller used for detailed settings is connected. Simple settings items can also be set at this time.

<Procedure of CZ-RTC6 series>

Stop the system before performing these steps.



CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen (Fig. 7-3-1) appears on the LCD display.

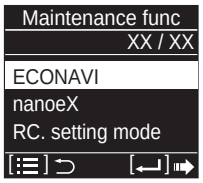


Fig. 7-3-1

(2) Press the ∨ or ∧ button to see each menu.
Select “Detailed settings” (Fig. 7-3-2) on the LCD display and press the ↵ button.

The “Detailed settings” screen (Fig. 7-3-3) appears on the LCD display.

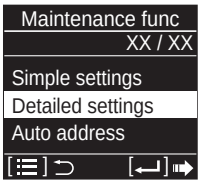


Fig. 7-3-2

(3) Select the “Unit no.” (Fig. 7-3-3) by pressing the ∨ or ∧ button.
After selecting “Unit no.”, press the ↵ button and proceed to Step (4).

NOTE

If the address setting is not set up correctly, the “ALL” will be displayed in the “Unit no.”.

If the ☰ button is pressed, proceed to Step (6).

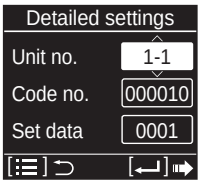


Fig. 7-3-3

(4) Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”. (Fig. 7-3-4)

Change the “Code no.” one digit at a time so that it becomes [0000XX] along with the following procedures.

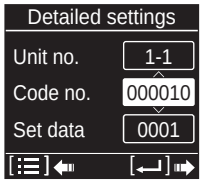


Fig. 7-3-4

Change the value (Fig. 7-3-5) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

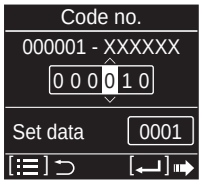


Fig. 7-3-5

Change the value (Fig. 7-3-6) by pressing the ∨ or ∧ button.
After changing the value, press the ↵ button and set the next digit.

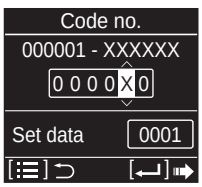


Fig. 7-3-6

7

Change the value (Fig. 7-3-7) by pressing the ▽ or △ button.
After changing all digits, press the ↵ button and proceed to Step (5).

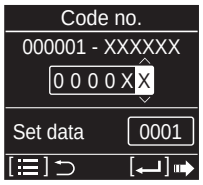


Fig. 7-3-7

(5) Select one of the Setting Data “YYYY” by pressing the ▽ or △ button.
After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from Fig. 7-3-5.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button twice (the display returns to Step (3)).

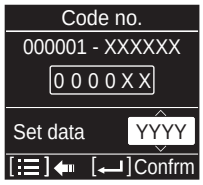


Fig. 7-3-8

(6) If the ☰ button is pressed under the display Step (3) the following display (Detailed setting-end screen) (Fig. 7-3-9) appears.
Then select “YES” by pressing the ▽ or △ button and press the ↵ button. (Return to normal remote controller display.)

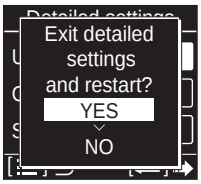


Fig. 7-3-9

7

<Procedure of CZ-RTC5B>



CZ-RTC5B

(1) Keep pressing the ⮌, ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
⬍ Sel. ◀ ▶ Page [↵] Confirm

(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “8. Detailed settings” on the LCD display and press the ↵ button.

Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
⬍ Sel. ◀ ▶ Page [↵] Confirm

The “Detailed settings” screen appears on the LCD display.
Select the “Unit no.” by pressing the ▼ or ▲ button for changes.

Detailed settings		20:30 (THU)
Unit no.	Code no.	Set data
3-1	10	0001
⬍ Sel. ▶ Next		

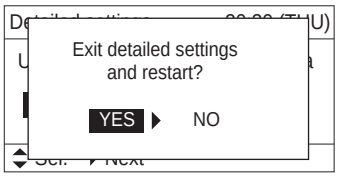
(3) Select the “Code no.” by pressing the ◀ or ▶ button.
Change the “Code no.” by pressing the ▼ or ▲ button (or keeping it pressed).

Detailed settings		20:30 (THU)
Unit no.	Code no.	Set data
3-1	10	0001
⬍ Sel. ▶ Next		

(4) Select the “Set data” by pressing the ◀ or ▶ button.
Select one of the “Set data” by pressing the ▼ or ▲ button.
Then press the ↵ button.

Detailed settings		20:30 (THU)
Unit no.	Code no.	Set data
3-1	10	0001
⬍ Sel. [↵] Confirm		

(5) Select the “Unit no.” by pressing the ◀ or ▶ button and press the ⮌ button.
The “Exit detailed settings and restart?” (Detailed setting-end) screen appears on the LCD display.
Select “YES” and press the ↵ button.



7

<Procedure of CZ-RTC4>

(1) Press and hold the , SET and CANCEL buttons simultaneously for 4 seconds or longer.

(2) " SETTING ", unit No. " 1- 1 " (or " ALL " in the case of group control), item code " 10 ," and settings data " 00 XX " are displayed blinking on the remote controller LCD display (figure at right). At this time, the indoor unit fan (or all indoor unit fans in the case of group control) begins operating.

(3) If group control is in effect, press the UNIT button and select the address (unit No.) of the indoor unit to set. At this time, the fan at the indoor unit begins operating.

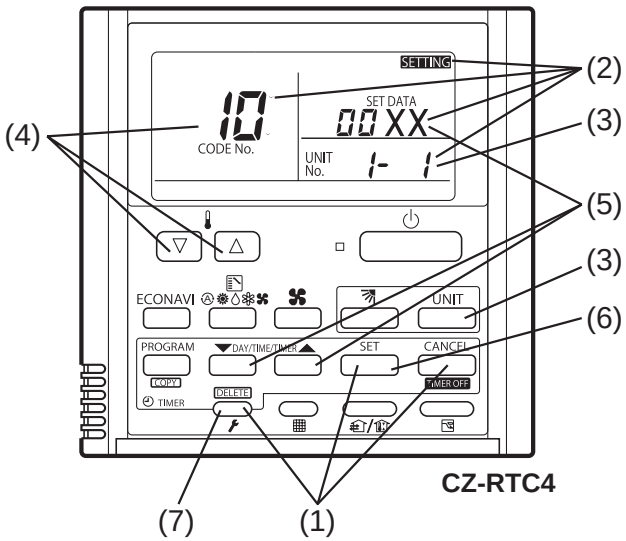
(4) Press the temperature setting ▽ / △ buttons to select the item code to change.

(5) Press the timer time DAY/ / /TIMER buttons to select the desired setting data.

*For item codes and setting data, see the following page.

(6) Press the SET button. (The display stops blinking and remains lit, and setting is completed.)

(7) Press the button to return to normal remote controller display.



CZ-RTC4

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7-4. List of Detailed Setting Items

Code no.	Item	Set data					
		No.	Description		No.	Description	
10	Type	0001	4-Way Cassette (U3) 4-Way Cassette 60 × 60 (Y3)		0005	Middle Static Pressure Duct (F3)	
		0007	Ceiling (T3)		0008	Wall Mounted (K3)	
11	Indoor unit capacity				0003	28	S-25PY3E Y3
		0005	36	S-3650PU3E (36) U3 S-3650PF3E (36) F3 S-3650PK3E (36) K3 S-3650PT3E (36) T3 S-36PY3E Y3	0007	45	S-3650PU3E (45) U3 S-3650PF3E (45) F3 S-3650PK3E (45) K3 S-3650PT3E (45) T3
		0009	56	S-3650PU3E (50) U3 S-3650PF3E (50) F3 S-3650PK3E (50) K3 S-3650PT3E (50) T3 S-50PY3E Y3	0011	71	S-6071PU3E (60) U3 S-6071PF3E (60) F3 S-6010PK3E (60) K3 S-6071PT3E (60) T3 S-60PY3E Y3
		0012	80	S-6071PU3E (71) U3 S-6071PF3E (71) F3 S-6010PK3E (71) K3 S-6071PT3E (71) T3	0015	112	S-1014PU3E (100) U3 S-1014PF3E (100) F3 S-6010PK3E (100) K3 S-1014PT3E (100) T3
		0017	140	S-1014PU3E (125) U3 S-1014PF3E (125) F3 S-1014PT3E (125) T3	0018	160	S-1014PU3E (140) U3 S-1014PF3E (140) F3 S-1014PT3E (140) T3
12	System address	0001	Unit no. 1				
		0002	Unit no. 2				
		0003	Unit no. 3				
		〈	〈				
		0030	Unit no. 30				
		0099	Not set				
13	Indoor unit address	0001	Unit no. 1				
		0002	Unit no. 2				
		0003	Unit no. 3				
		〈	〈				
		0064	Unit no. 64				
		0099	Not set				
14	Group control address	0000	Individual (1:1 = Indoor unit with no group wiring)				
		0001	Main unit (One of the group-control indoor units)				
		0002	Sub unit (All group-control indoor units except for main unit)				
		0099	Not set				
17	Cooling intake temperature shift	−010	Shifts intake temperature 10°C down.				
		−009	Shifts intake temperature 9°C down.				
		〈	〈				
		−001	Shifts intake temperature 1°C down.				
		0000	No intake temperature shift				
		0001	Shifts intake temperature 1°C up.				
		〈	〈				
		0009	Shifts intake temperature 9°C up.				
		0010	Shifts intake temperature 10°C up.				

(Continued)

Code no.	Item		Set data	
			No.	Description
18	Automatic stop time after operation start *Can be set in 5-minute units.		0000	Function disabled
			0001	Stops automatically 5 minutes after operation starts.
			0002	Stops automatically 10 minutes after operation starts.
			〜	〜
			0123	Stops automatically 615 minutes after operation starts.
			0124	Stops automatically 620 minutes after operation starts.
			0125	Stops automatically 625 minutes after operation starts.
1b (1B)	Forced thermostat ON time		0000	5 minutes
			0001	4 minutes
1E	Temperature shift for cooling/heating change in auto heat/cool mode		0001	± 1°C
			0002	± 2°C
			0003	± 3°C
			〜	〜
			0007	± 7°C
1F (Upper limit) 20 (Lower limit)	Change to remote control temperature setting range	Cooling	0018	18°C (Lower limit at shipment)
			0019	19°C
			〜	〜
			0029	29°C
			0030	30°C (Upper limit at shipment)
21 (Upper limit) 22 (Lower limit)		Heating	0016	16°C (Lower limit at shipment)
			0017	17°C
			〜	〜
			0029	29°C
			0030	30°C (Upper limit at shipment)
23 (Upper limit) 24 (Lower limit)		Drying	0018	18°C (Lower limit at shipment)
			0019	19°C
			〜	〜
			0029	29°C
			0030	30°C (Upper limit at shipment)
25 (Upper limit) 26 (Lower limit)		Auto heat/cool	0017	17°C (Lower limit at shipment)
			0018	18°C
			〜	〜
			0026	26°C
			0027	27°C (Upper limit at shipment)
29	Humidifier operation		0000	Normal
			0001	Ignore heat exchanger temperature conditions.
2A	Filter (CN70) input switching		0000	Filter input (differential pressure switch input)
			0001	Alarm input (for trouble input about air cleaner or similar device)
			0002	Humidifier input (Operates linked with drain pump when humidifier is ON.)
2C	Indoor unit electronic control valve		0000	None
			0002	Present (Setting at shipment)
2E	T10 terminal switching		0000	Normal (Used as optional relay PCB or JEMA standard HA terminal.)
			0001	Used for OFF reminder
			0002	Fire prevention input

(Continued)

Code no.	Item	Set data	
		No.	Description
2F	Automatic drain pump operation	0000	No forced operation
		0001	Forced operation for 1 minute
		≀	≀
		0060	Continuous operation
31	Ventilation fan operation	0000	None
		0001	Ventilation fan operated by remote controller.
32	Wired remote controller sensor	0000	Not used. (Body sensor is used.)
		0001	Remote control sensor is used.
34	"Operation change control in progress" display	0000	Normal (displayed)
		0001	Not displayed
35	OFF reminder function for when weekly timer is used	0000	None
		0001	Only stop time setting is enabled.
3C	Heat exchanger temperature for cold air discharge (Heat exchanger control point for control to prevent cold air)	-001	Control temperature -1°C
		0000	Control temperature 0°C
		≀	≀
		0025	Control temperature 25°C
		0026	Control temperature 26°C
3d	Fan output switching	0000	Output linked with fan.(ON when indoor unit fan is operating.)
		0001	Fan mode operation output
3E	Drain pump delayed stop time	0000	No delayed stop
		0001	1minutes delayed stop
		0002	2minutes delayed stop
		≀	≀
		0058	58minutes delayed stop
		0059	59minutes delayed stop
		0060	60minutes delayed stop
40	Humidifier setting	0000	Humidifier output OFF. Drain pump stopped.
		0001	Humidifier output ON. Drain pump operates.
		0002	Humidifier output ON. Drain pump operates for 1 minute when total humidifier operating time reaches 60 minutes.
		0003	Humidifier output ON. Drain pump stopped.
45	Flap operation mode	0000	Standard setting
		0001	Draft reduction mode (Flap lower-limit position is shifted upwards.)
46	Flap swing mode	0000	Smudging reduction mode (Flap swing upper-limit position is shifted downwards.)
		0001	Normal mode
		0002	Draft reduction mode (Flap swing lower-limit position is shifted upwards.)

(Continued)

Code no.	Item	Set data	
		No.	Description
5d	Fan tap setting (Fan tap change in order to prevent drop in air discharge caused by filter installation)		Purpose
		0000	Standard (factory setting)
		0001	High ceiling setting 1 (U3, T3)
			Air-flow blocking kit (when a duct is connected : U3)
			Air-flow blocking kit (for 3-way air flow : U3)
		0003	High ceiling setting 2 (U3)
		0006	Air-flow blocking kit (for 2-way air flow : U3)
5E	Humidifier ON time (ON time per 60 seconds)	0000	No humidifier output
		0001	1 second
		0002	2 seconds
		≀	≀
		0058	58 seconds
		0059	59 seconds
		0060	Continuously ON
60	Timer function change prohibit	0000	Function disabled
		0001	Function enabled
62	Smudging control	0000	No smudging control
86	Fan speed when cooling thermostat OFF	0000	Fan speed setting
		0003	LL 3min.→Fan speed setting
		0009	LL
FC	Refrigerant adaptability	0000	None
		0001	Standard (factory setting)

NOTE

- Consider the device purpose and type when changing the settings. Incorrect settings may result in malfunction.
- Do not change any setting data that does not appear in this list.

7-5. Simple Setting Items

Code no.	Item	Description
01	Filter sign ON time (filter life time)	Changes the indoor unit filter lifetime when a high-performance filter or other optional product is installed.
02	Degree of filter fouling	Reduces the filter sign ON time to 1/2 of the standard time (setting at the time of shipping) for cases when filter fouling is more severe than normal.

Filter sign ON times for each model

Item code 10 Model data	Model	Filter sign ON time			
		Standard		Long-life	
		Standard	High fouling	Standard	High fouling
0001	4-Way Cassette (U3) 4-Way Cassette 60 × 60 (Y3)	×	×	2500	1250
0007	Ceiling (T3)	×	×	1500	750
0008	Wall Mounted (K3)	150	75	×	×

NOTE

- × indicates that there is no corresponding filter.
- ■ indicates the filter sign ON time that is set at shipment.
- High fouling: Set when 0001 is selected for the degree of filter fouling (item code 02).

Code no.	Item	Description
03	Central control address	Set when using a central control device. Used when setting the central control address manually from the remote controller.
04	Operating mode priority change	Note (1)

NOTE

There are other methods to avoid control in which the mode selected first takes priority.

Methods of remotely controlling the operating mode
(1) Use the central functions of a central control device.
(2) Use a remote control relay PCB at the outdoor unit.

When the operating mode at the priority remote controller is changed, the operating modes of other remote controllers change as shown below.

Mode change at priority remote controller		Operating modes at other remote controllers	
Current mode	**New mode**	**Current mode**	**New mode**
Cooling or dry	Heating	Cooling or dry	Heating
		Fan	Fan (not changed)
Heating	Cooling	Heating	Cooling
		Fan	Fan (not changed)
Cooling	Dry	Cooling	Cooling (not changed)
		Dry	Dry (not changed)
Heating	Dry	Heating	Cooling
		Fan	Fan (not changed)
Cooling or dry	Fan	Cooling	Cooling (not changed)
		Dry	Dry (not changed)
		Fan	Fan (not changed)
Heating	Fan	Heating	Heating (not changed)
		Fan	Fan (not changed)

Code no.	Item	Description
05	Fan speed setting when heating thermostat is OFF	Changes the fan speed setting when the heating thermostat is OFF.
06	Heating intake temperature shift	Shifts the intake temperature during heating. Can be set when the body thermostat is used.
07	Electric heater installation	Set when cost distribution is performed using an AMY central control system or similar system, and when an optional electric heater is installed. (This is unrelated to control of the electric heater.)
08	Humidifying when heater thermostat is OFF	Normally humidifying does not occur when the thermostat is OFF during heating operation. However, this setting can be changed in order to increase the amount of humidifying. Caution: In order to avoid water leakage and damage to the fan, do not use this setting unless a vaporizing humidifier is used.
0D	Permit/prohibit automatic heating/cooling	This setting can be used to prevent the automatic heating/cooling display on the remote control if the unit configuration permits automatic heating/cooling operation.
0F	Cooling-only	This setting allows a heat pump indoor unit to be operated as a cooling only unit.

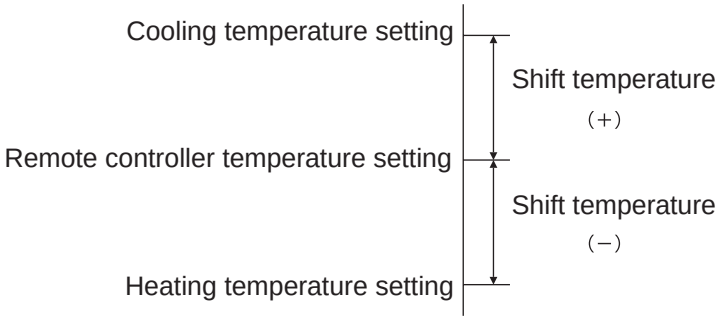
NOTE

- In order to avoid water leakage and damage to the fan, do not set for humidifying when the thermostat is OFF unless a vaporizing humidifier is used.
- Consider the device purpose and type when changing the settings. Incorrect settings may result in malfunction.
- Do not change any setting data that does not appear in this list.

7-6. Detailed Setting Items

Code no.	Item	Description
10	Unit type	Number for each type of indoor unit
11	Indoor unit capacity	(U3, F3, K3, T3) These are not set at the time of shipping from the factory. These need to be set by auto address setting after installation. (Y3) Number for each type of indoor unit
12	System (outdoor unit) address	These are not set at the time of shipping from the factory. These need to be set by auto address setting after installation.
13	Indoor unit address	
14	Group address	
17	Cooling intake temperature shift	Shifts the intake temperature during cooling and dry operation. (Enabled only when the body thermostat is used.) Increase this value when it is difficult to turn the thermostat ON.
18	Automatic stop time after operation start	The time at which an indoor unit is automatically stopped after operation starts can be set in increments of 5 minutes
1b	Forced thermostat ON time	Use this setting to change the time for forced operation at installation or servicing from 5 minutes to 4 minutes. (Enabled only with PAC models.)
1E	Temperature shift for cooling/heating change in “auto heat/cool” mode	“Auto heat/cool” selects the operating mode automatically based on the difference between the room temperature and the temperature set on the remote controller. This setting establishes a shift temperature for the heating/cooling temperature setting relative to the remote controller temperature setting.

(Continued)



Code no.	Item		Description
1F (Upper limit) **20** (Lower limit)	Change to the remote control temperature setting range	Cooling	This setting changes the temperature range (upper limit and lower limit) which is set from the remote controller or central control device. The set upper limit must be greater than or equal to the lower limit. If the temperature setting is to be a single point, set the upper limit and lower limit to the same temperature.
21 (Upper limit) **22** (Lower limit)		Heating	
23 (Upper limit) **24** (Lower limit)		Drying	
25 (Upper limit) **26** (Lower limit)		Auto heat/cool	
29	Humidifier operation which ignores the heat exchanger temperature		During heating operation, the humidifier operates when the heat exchanger temperature is suitable for humidifying. This setting is used to ignore this condition for humidifier operation and operate the humidifier more.
2A	Filter input switching		This setting switches the filter input according to the purpose of use.
2C	Indoor unit electronic control valve		This setting indicates whether or not an indoor unit electronic control valve is present. At the time of shipping, this setting is set according to the conditions of the indoor unit.
2E	T10 terminal input switching		Ordinarily, the T10 terminal is used as the HA terminal at the time of shipping. However, this setting is used when the T10 terminal is used for OFF reminder or for fire prevention input.
31	Ventilation fan operation from remote controller		It is possible to install a total heat exchanger and ventilation fan in the system, which can be started and stopped by the wired remote controller. The ventilation fan can operate linked with the start and stop of the indoor unit, or can be operated even when the indoor unit is stopped. Use a ventilation fan that can accept the no-voltage A contact as the external input signal. In the case of group control, the fans are operated together. They cannot be operated individually.
32	Switching to remote controller sensor		This setting is used to switch from the body sensor to the remote controller sensor. Check that “remote controller sensor” is displayed. Do not use this setting with models that do not include a remote controller sensor. Do not use this setting if both the body sensor and remote sensor are used.
34	ON/OFF of “Operation change control in progress” display		In a MULTI system with multiple remote controllers, switching between heating and cooling is restricted, and “Operation change control in progress” is displayed. This setting is used to prevent this display from appearing. See the item concerned with operating mode priorities.
35	OFF reminder function for weekly timer		This setting switches the operation when the weekly timer is connected to the remote controller. This can be used to prevent cases in which the unit is accidentally left ON. There is no change when this setting is ON, however, it is necessary to set the weekly timer ON time.

(Continued)

(Continued from previous page)

Code no.	Item	Description
3C	Heat exchanger temperature for cold air discharge	The heat exchanger temperature control point for prevention of cold air discharge during heating operation can be changed.
3d	Fan output switching	The indoor unit PCB optional output for the fan can be switched according to the purpose of use.
3E	Drain pump delayed stop time	The drain pump stops for the set time delay after cooling operation stops.
40	Humidifier drain pump setting	This specifies the humidifier and drain pump setting.
45	DC flap operation mode	Changes flap operation to draft reduction mode.
46	DC flap swing mode	Selects the swing operation mode for the flap.
5d	DC fan tap setting	Sets the DC fan tap according to the purpose of use. Change the settings data at the same time.
5E	Humidifier ON time	Sets the humidifier output ON time for when the humidifier is operating. ON/OFF control is performed during humidifier operation. This setting therefore sets the ON time per 60-second interval.
60	Timer function change prohibit	This function prohibits changes from being made to the remote controller time setting.
62	Smudging control	Smudging control is disabled when 0000 is set.
FC	Refrigerant adaptability	This item is set to 01 when the indoor unit model adapted with both R410A and R32.

NOTE

- Consider the device purpose and type when changing the settings. Incorrect settings may result in malfunction.
- Do not change any setting data that does not appear in this list.

DC Fan Tap Change Procedure (in the case of 4-way Cassette Type)

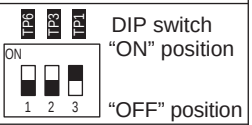
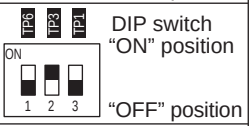
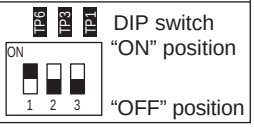
It is necessary to set the fan speed in accordance with the intended application and the optional parts to be used if any such part is used. (Table 7-6-1)
If this speed is not changed, a reduction in the air flow may result, causing the air outlet temperature to drop and condensation to form during cooling.
There are two ways to set the fan speed: either (1) change the positions of the DIP switches on the indoor unit control PCB or (2) set the speed using the wired remote controller. Select one of these ways.
* Priority is given to setting the fan speed by changing the positions of the DIP switches.

Table 7-6-1 DC fan motor tap setting table

Setting No	Item code 5D/5d setting data	Intended application / name of optional parts	Setting No	Item code 5D/5d setting data	Intended application / name of optional parts
	0000	Standard (factory setting)	(1)	0001	Air-flow blocking kit (for 3-way air flow)
(1)	0001	High-ceiling setting 1 (with standard, ECONAVI panel)	(3)	0003	High-ceiling setting 2 (with standard, ECONAVI panel)
		Air-flow blocking kit (when a duct is connected.)	(6)	0006	Air-flow blocking kit (for 2-way air flow)

When setting the fan speed by changing the positions of the DIP switches on the indoor unit control PCB

<Procedure> Be absolutely sure to turn off the power (earth-leakage circuit breaker).
<1> On Table 7-6-1, check out the "Setting No." that corresponds to the intended application and the optional parts to be used.
<2> Open the cover of the electrical parts box, and check the indoor unit control PCB. (Fig. 7-6-1)
<3> Select the Setting No. which was checked out on Table 7-6-1, and change the positions of the DIP switches on the indoor unit control PCB.

Setting No.	DIP switch
(1)	 DIP switch "ON" position "OFF" position
(3)	 DIP switch "ON" position "OFF" position
(6)	 DIP switch "ON" position "OFF" position

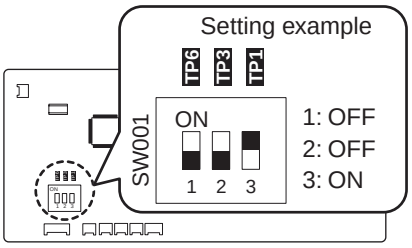
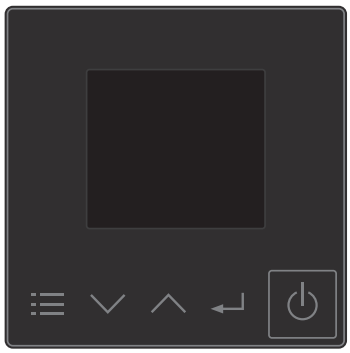


Fig. 7-6-1
Indoor unit control PCB

7

When setting the fan speed using a wired remote controller

<Procedure of CZ-RTC6 series>



CZ-RTC6 series

(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen (Fig. 7-6-2) appears on the LCD display.

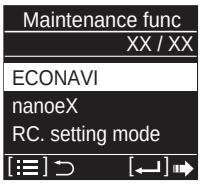


Fig. 7-6-2

(2) Press the ∨ or ∧ button to see each menu. Select “Detailed settings” (Fig. 7-6-3) on the LCD display and press the ↵ button.

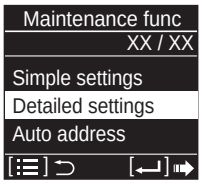


Fig. 7-6-3

The “Detailed settings” screen (Fig. 7-6-4) appears on the LCD display.

(3) Select the “Unit no.” (Fig. 7-6-4) by pressing the ∨ or ∧ button.

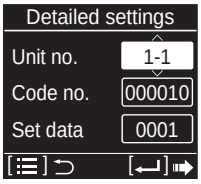


Fig. 7-6-4

After selecting “Unit no.”, press the ↵ button and proceed to Step (4).
If the ☰ button is pressed, proceed to Step (6) .

(4) Keep pressing the ↵ button for 2 seconds or more during selecting “Code no.”.

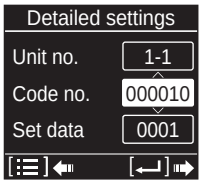


Fig. 7-6-5

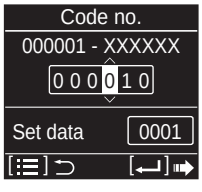


Fig. 7-6-6

Change the “Code no.” one digit at a time so that it becomes [00005D] along with the following procedures. (Fig. 7-6-7)

Change the value by pressing the ∨ or ∧ button. After changing the value, press the ↵ button and set the next digit.

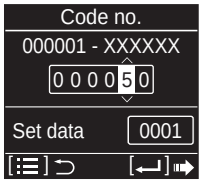


Fig. 7-6-7

Change the value by pressing the ∨ or ∧ button. After changing the value, press the ↵ button and set the next digit.
(Fig. 7-6-8)

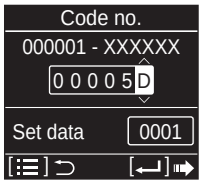


Fig. 7-6-8

Change the value by pressing the ∨ or ∧ button. After changing all digits, press the ↵ button and proceed to Step (5).

(5) Select one of the “Set data” in “Table for DC Fan Motor Tap Setting” by pressing the ∨ or ∧ button.
(Fig. 7-6-9)

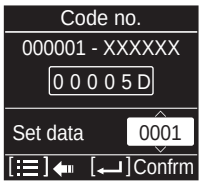


Fig. 7-6-9

After selecting “Set data”, press the ↵ button. (If setting continuously, follow the procedures from Fig. 7-6-6.)
If you wish to change the selected indoor unit or finish setting, press the ☰ button (the display returns to Step (3)).

(6) If the ☰ button is pressed under the display Step (3), the following display (Detailed setting-end screen) appears. (Fig. 7-6-10)
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.

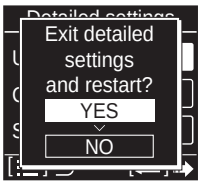


Fig. 7-6-10

<Procedure of CZ-RTC5B>

On Table 7-6-1, check out the “Item code 5D setting data” that corresponds to the intended application and the optional parts to be used.

<Procedure> Ensure that the unit has stopped operating before changing the fan speed.

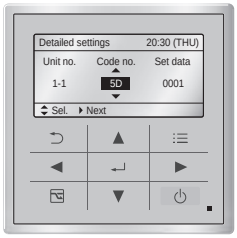
<1> Hold down the [↩] + [↵] + [►] buttons together for at least 4 seconds.
The maintenance function screen is displayed.

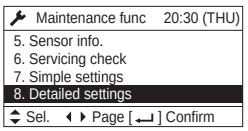
<2> Use the [▲] / [▼] buttons to select the display and the [◄] / [►] buttons to select the page.
Select “8.Detailed settings” and press the [↵] button.
The [Detailed settings screen] appears.
Using the [▲] / [▼] buttons, select the unit No.

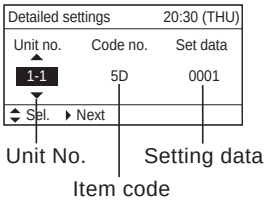
<3> Using the [◄] / [►] buttons, select the item code.
Using the [▲] / [▼] buttons, change the item code to “5D.”

<4> Using the [◄] / [►] buttons, select the setting data.
Using the [▲] [▼] buttons, change the setting data to the value checked out on Table 7-6-1, and press the [↵] button.

<5> After selecting the unit No. using the [◄] / [►] buttons, press the [↩] button.
The [Detailed settings completion screen] appears. Select “Yes” , and press the [↵]







<Procedure of CZ-RTC4>

On Table 7-6-1, check out the “Item code 5d setting data” that corresponds to the intended application and the optional parts to be used.

<Procedure> Ensure that the units have stopped operating before changing the fan speed.

<1> Hold down the [⏻] + [SET] + [CANCEL] buttons together for at least 4 seconds.

<2> Each time the [UNIT] button is pressed, the numbers of the indoor units under group control are displayed in sequence.
The fan motor of only the indoor unit that has been selected will run.

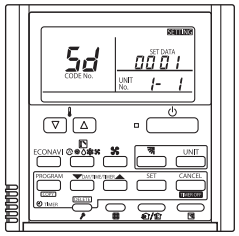
<3> Specify item code “5d” using the temperature setting [▽] / [△] buttons.

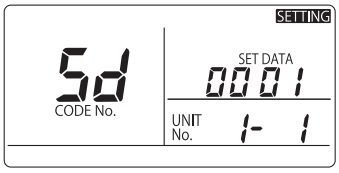
<4> Change the setting data using the hour [DAY/TIME/TIMER▼] [DAY/TIME/TIMER▲] buttons. The setting data details are as given on Table 7-6-1.

<5> Press the [SET] button. (OK if the display changes from flashing to lighted.)

<6> Press the [⏻] button. The normal stop status is established.
Go to step <2> to change the selected indoor unit.

<7> Press the [⏻] button. The normal stop status is established.





7-7. Remote Controller Servicing Functions

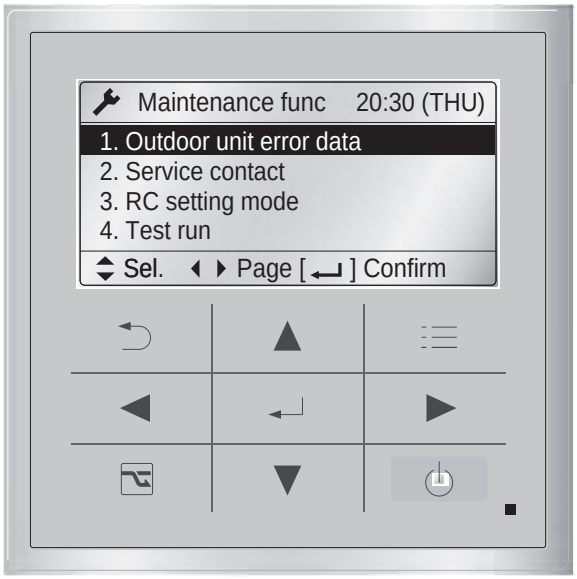
The remote controller includes a number of servicing functions. Use these as needed for test runs and inspections.

<Procedure of CZ-RTC5B>

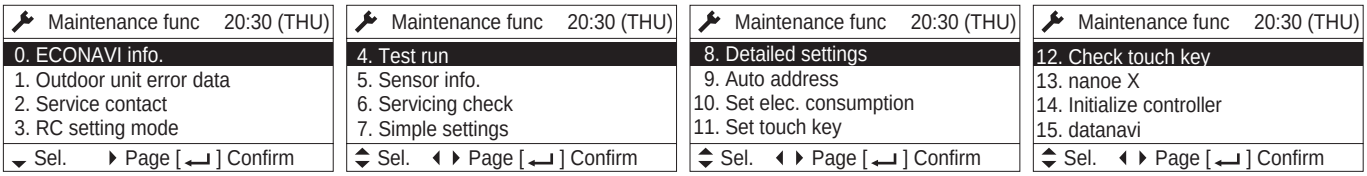
Display of "maintenance function" screen

(1) Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds. The “Maintenance func” screen appears on the LCD display.

(2) Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.



CZ-RTC5B

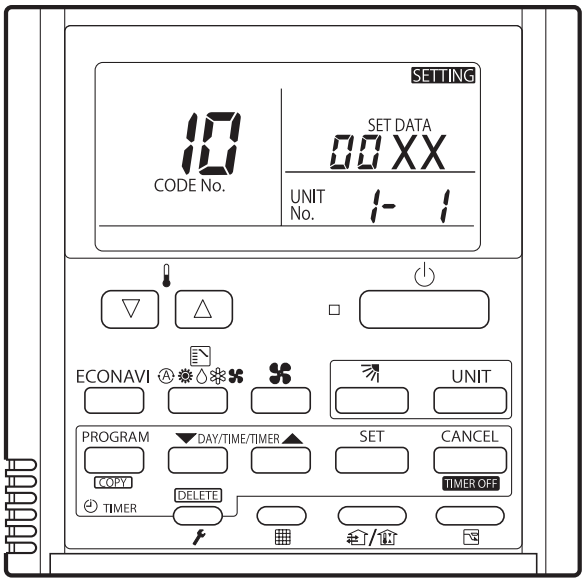


Maintenance function screen

List of Servicing Functions

Functions	Description	Menu selection	Reset operation	Unit status
ECONAVI • CZ-KPU3A • CZ-KPU3AW • CZ-KPY4 • CZ-CENSC1	Display from each sensor	0. ECONAVI info.	Press the [↩] button.	
Test run	Operation with forced thermostat ON	4. Test run		
Sensor temperature display	Temperature display from each sensor	5. Sensor info		
Servicing check display	Alarm history display	6. Service check		
Simple settings	Filter lifetime, operating mode priority, central control address, and other settings.	7. Simple settings	Press the [↩] button. (Restart)	When settings are made from a remote controller, the indoor unit where that remote controller is connected stops.
Detailed settings	System address, indoor unit address, central control address, and other settings	8. Detailed settings		
Auto address	Auto address setting based on command from the wired remote controller	9. Auto address	Automatic reset	Entire system stops.
nanoe™ X (CZ-RTC5B only)	Display status of nanoe™ X	13. nanoe X	Press the [↩] button.	

<Procedure of CZ-RTC4>



CZ-RTC4

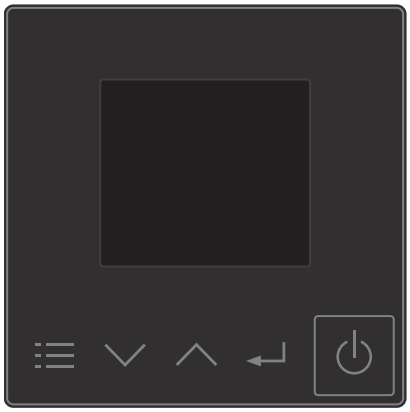
List of Servicing Functions

Functions	Description	Button operation	Reset operation	Unit status
Test run	Operation with forced thermostat ON	Press and hold the button for 4 seconds or longer.	Press the button.	Current operation is maintained.
Sensor temperature display	Temperature display from each sensor	Press and hold the and CANCEL buttons for 4 seconds or longer.		
Servicing check display	Alarm history display	Press and hold the and SET buttons for 4 seconds or longer.		
Simple settings	Filter lifetime, operating mode priority, central control address, and other settings	Press and hold the and buttons for 4 seconds or longer.		When settings are made from a remote controller, the indoor unit where that remote controller is connected stops.
Detailed settings	System address, indoor unit address, central control address, and other settings	Press and hold the , CANCEL and SET buttons for 4 seconds or longer.		
Auto address	Auto address setting based on command from the wired remote controller	Press and hold the and the timer operation buttons for 4 seconds or longer.	Automatic reset	Entire system stops.
Address change	Change of indoor unit address	Press and hold the and the timer operation buttons for 4 seconds or longer.	Press the button.	

7

7-8. Test Run Function

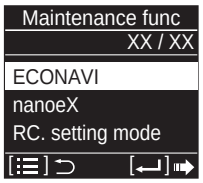
Test Run Using the Remote Controller
<Procedure of CZ-RTC6 series>



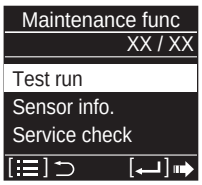
CZ-RTC6 series

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

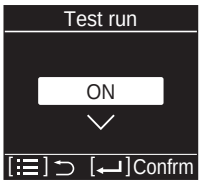
(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



(2) Press the ∨ or ∧ button to see each menu.
Select “Test run” on the LCD display and press the ↵ button.



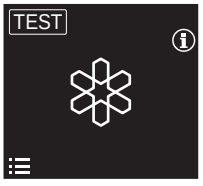
Change the display from “OFF” to “ON” by pressing the ∨ or ∧ button.
Then press the ↵ button.



(3) Press the ☰ button.
“TEST” will be displayed on the LCD display.



(4) Press the ⏻ button. Test run will be started.
Test run setting mode screen appears on the LCD display.



- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display.
  (Regarding the alarm contents, see “2-3-1-5. Contents of Remote Controller Switch Alarm Display”.)

(5) After the test run is completed, proceed from Step (1) and change to “OFF” at Step (2).

- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.

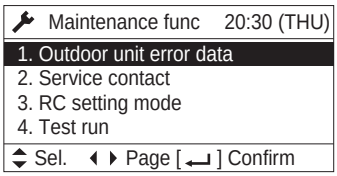
NOTE

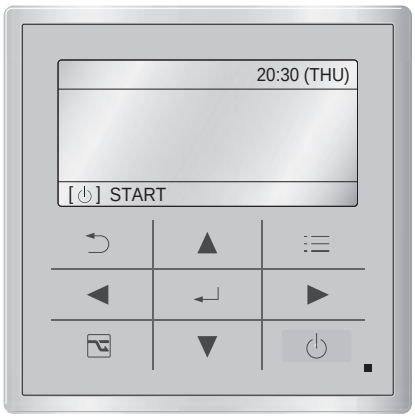
- The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.
- If the test run is performed using the wired remote controller, operation is possible even if the cassette-type ceiling panel has not been installed. (“P09” display does not occur.)

<Procedure of CZ-RTC5B>

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

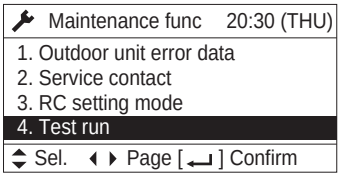
(1) Keep pressing the [↩], [↵] and [▶] buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



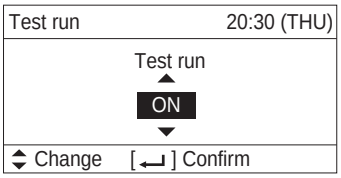


CZ-RTC5B

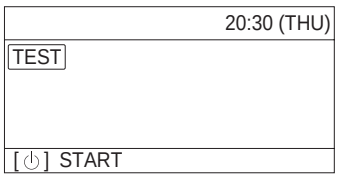
(2) Press the [▼] or [▲] button to see each menu.
If you wish to see the next screen instantly, press the [◀] or [▶] button.
Select “4. Test run” on the LCD display and press the [↵] button.



Change the display from “OFF” to “ON” by pressing the [▼] or [▲] button. Then press the [↵] button.

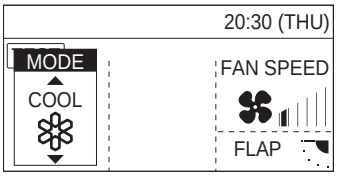


(3) Press the [↩] button. “TEST” will be displayed on the LCD display.

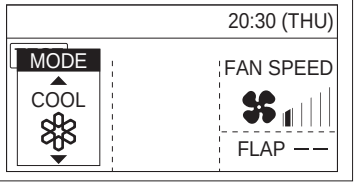


(4) Press the [⏻] button. Test run will be started.
Test run setting mode screen appears on the LCD display.
- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, see “2-3-1-5. Contents of Remote Controller Switch Alarm Display”.)

- **4-Way Cassette Type**
- **Wall Mounted Type**
- **Ceiling Type**
- **4-Way Cassette 60 × 60 Type**



- **Middle Static Pressure Duct Type**



(5) After the test run is completed, proceed from Step (1) and change to “OFF” at Step (2).
- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.

NOTE

- The outdoor units will not operate for approximately 3 minutes after the power is turned ONand after operation is stopped.
- If the test run is performed using the wired remote controller, operation is possible even if the cassette-type ceiling panel has not been installed. (“P09” display does not occur.)

<Procedure of CZ-RTC4>

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

(1) Press the remote controller button for 4 seconds or longer.

Then press the button.

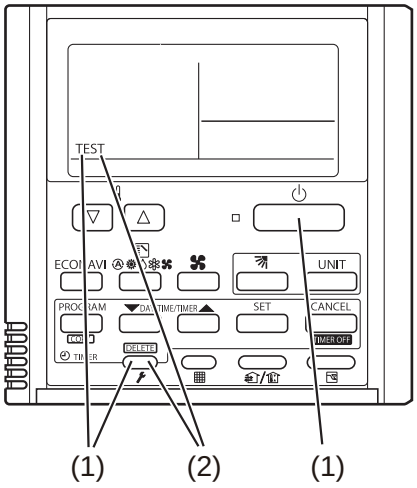
"TEST" appears on the LCD display while the test run is in progress.

- The test run can be performed using the HEAT, COOL, or FAN operation mode.
- The temperature cannot be adjusted when in test run mode.
- If correct operation is not possible, a code is displayed on the remote controller LCD display. (Regarding the alarm contents, see "2-3-1-5. Contents of Remote Controller Switch Alarm Display")

(2) After the test run is completed, press the button again.

Check that "TEST" disappears from the LCD display.

- To prevent continuous test run, this remote controller includes a timer function that cancels the test run after 60 minutes.



CZ-RTC4

NOTE

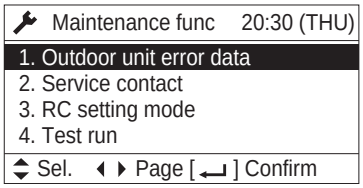
- The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.
- If the test run is performed using the wired remote controller, operation is possible even if the cassette-type ceiling panel has not been installed. ("P09" display does not occur.)

Sensor Temperature Display Function (displayed regardless of whether unit is operating or stopped)

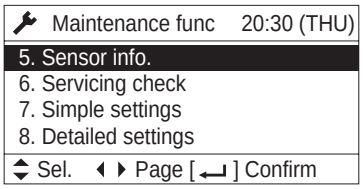
The procedure below displays the sensor temperatures from the remote controller, indoor unit, and outdoor unit on the remote controller.

<Procedure of CZ-RTC5B>

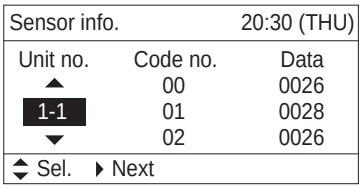
(1) Keep pressing the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



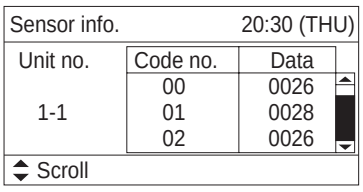
(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select "5. Sensor info." on the LCD display and press the ↵ button.



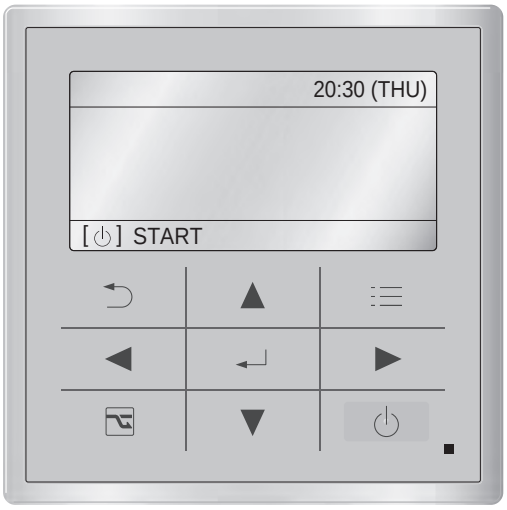
Select the “Unit no.” by pressing the ▼ or ▲ button for changes.



Then press the ▶ button.
Display sensor information of the unit.



Refer the information by pressing the ▼ or ▲ button.



CZ-RTC5B

7

<Procedure of CZ-RTC4>

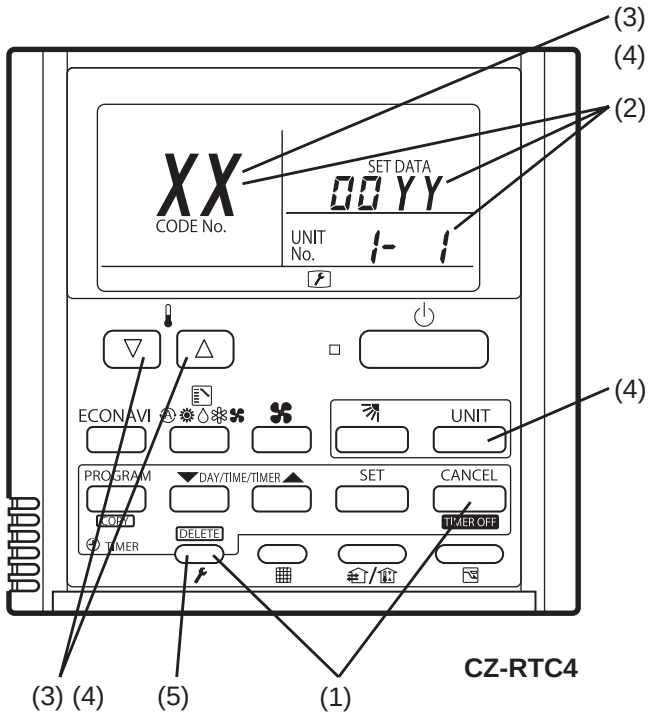
(1) Press and hold the [flash] and [CANCEL] buttons simultaneously for 4 seconds or longer.

(2) The unit No. "X-X" (main unit No.), item code "XX" (sensor address), and servicing monitor "00 YY" (sensor temperature) are displayed on the remote controller LCD display (figure at right).

(3) Press the temperature setting [▽] / [△] buttons and select the item code to the address of the sensor to monitor.

(4) If group control is in effect, press the [UNIT] button to select the unit to monitor.
Press the temperature setting buttons to select the item code to change.

(5) Press the [flash] button to return to normal remote controller display.



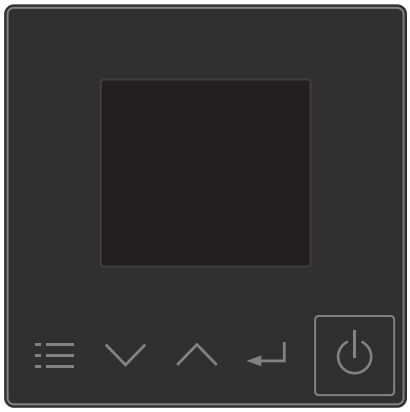
CZ-RTC4

	Item code	Meaning of Code
Indoor unit data	02	Indoor unit intake temp.
	03	Indoor unit heat exchanger temp. (E1)
	04	Indoor unit heat exchanger temp. (E2)
	05	–
	06	–
	07	–
	08	–
	09	
Outdoor unit data	0A	Discharge temp. (TD)
	0b	–
	0C	–
	0d	Intake temp. (TS)
	0E	Outdoor unit heat exchanger temp. (C1)
	0F	Outdoor unit heat exchanger temp. (C2)
	10	–
	11	Outdoor air temp. (TO)
	12	–
	13	Current value (CTL2)
	14	Current value (CTL1)
	15	Outdoor MV value (MOV1)
	16	–
	19	Frequency

* Depending on the model, some items may not be displayed.

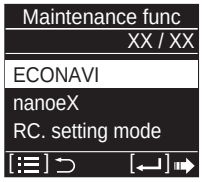
Auto Address Setting

<Procedure of CZ-RTC6 series>

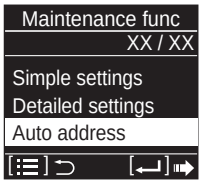


CZ-RTC6 series

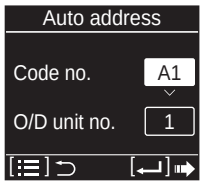
(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



(2) Press the ∨ or ∧ button to see each menu.
Select “Auto address” on the LCD display and press the ↵ button.

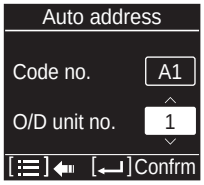


(3) The “Auto address” screen appears on the LCD display.
Select the “Code no.” to “A1” by pressing the ∨ or ∧ button.

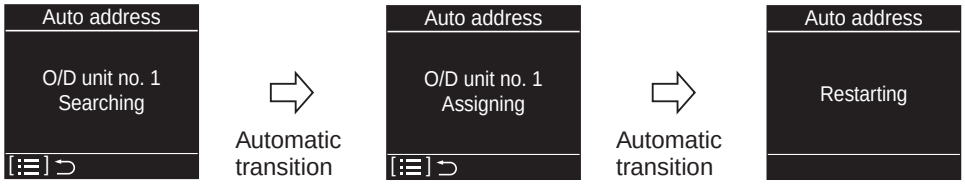


After selecting “Code no.”, press the ↵ button and proceed to Step (4).
If the ☰ button is pressed, proceed to Step (5).

(4) Select one of the “O/D unit no.” for auto address by pressing the ∨ or ∧ button.

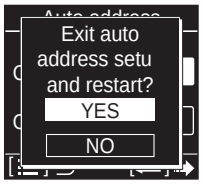


After selecting “O/D unit no.”, press the ↵ button.



Approximately 10 minutes are required.
When auto address setting is completed, the units return to normal stopped status.

(5) If the ☰ button is pressed under the display Step (3), the following display (Auto address-end screen) appears.
Then select “YES” by pressing the ∨ or ∧ button and press the ↵ button.



7

<Procedure of CZ-RTC5B>

(1) Keep pressing the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “9. Auto address” on the LCD display and press the ↵ button.

Maintenance func 20:30 (THU)
9. Auto address
10. Set elec. consumption
11. Set touch key
12. Check touch key
⇕ Sel. ◀ ▶ Page [↵] Confirm

(3) The “Auto address” screen appears on the LCD display.
Change the “Code no.” to “A1” by pressing the ▼ or ▲ button.

Auto address	20:30 (THU)
Code no.	O/D unit no.
A1	1
⇕ Sel. ▶ Next	



CZ-RTC5B

(4) Select the “O/D unit no.” by pressing the ◀ or ▶ button.
Select one of the “O/D unit no.” for auto address by pressing the ▼ or ▲ button for auto address setting.
Approximately 10 minutes are required.
When auto address setting is completed, the units return to normal stopped status.

<Procedure of CZ-RTC4>

NOTE

- Selecting each refrigerant system individually for auto address setting
- Auto address setting for each system : Item code “A1”

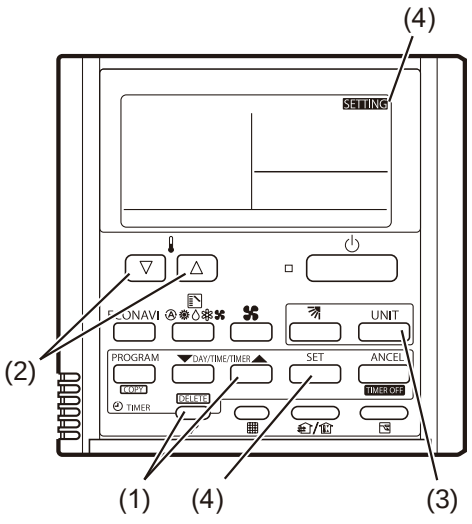
(1) Press the remote controller timer time /TIMER button and button at the same time.
(Press and hold for 4 seconds or longer.)

(2) Next, press either the temperature setting ▽ / △ button.
(Check that the item code is “A1”.)

(3) Use either the UNIT button to set the system No. to perform auto address setting.

(4) Then press the SET button.
(Auto address setting for one refrigerant system begins.)
(When auto address setting for one system is completed, the system returns to normal stopped status.)
<Approximately 4 – 5 minutes is required.>
(During auto address setting, “SETTING” is displayed on the remote controller.
This message disappears when auto address setting is completed.)

(5) Repeat the same steps to perform auto address setting for each successive system.

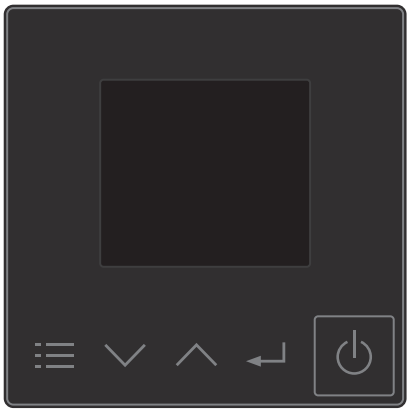


CZ-RTC4

Checking indoor unit addresses

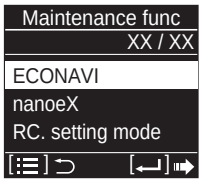
Use the remote controller to check the indoor unit address.

<Procedure of CZ-RTC6 series>

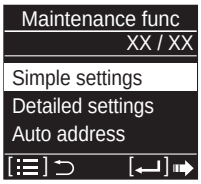


CZ-RTC6 series

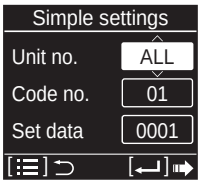
(1) Keep pressing the ☰, ∧ and ↵ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.



(2) Press the ∨ or ∧ button to see each menu.
Select “Simple settings” on the LCD display and press the ↵ button.



(3) The “Simple settings” screen appears on the LCD display.
Select the “Unit no.” by pressing the ∨ or ∧ button for changes.



* The initial display is “ALL”.

The indoor unit fan operates only at the selected indoor unit.

(4) Press the ☰ button and select “YES” to restart.

7

<Procedure of CZ-RTC5B>



CZ-RTC5B

(1) Keep pressing the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds.
The “Maintenance func” screen appears on the LCD display.

Maintenance func 20:30 (THU)
1. Outdoor unit error data
2. Service contact
3. RC setting mode
4. Test run
▲▼ Sel. ◀ ▶ Page [↵] Confirm

(2) Press the ▼ or ▲ button to see each menu.
If you wish to see the next screen instantly, press the ◀ or ▶ button.
Select “7. Simple settings” on the LCD display and press the ↵ button.

Maintenance func 20:30 (THU)
5. Sensor info.
6. Servicing check
7. Simple settings
8. Detailed settings
▲▼ Sel. ◀ ▶ Page [↵] Confirm

(3) The “Simple settings” screen appears on the LCD display.
Select the “Unit no.” by pressing the ▼ or ▲ button for changes.
* The initial display is “ALL”.
The indoor unit fan operates only at the selected indoor unit.

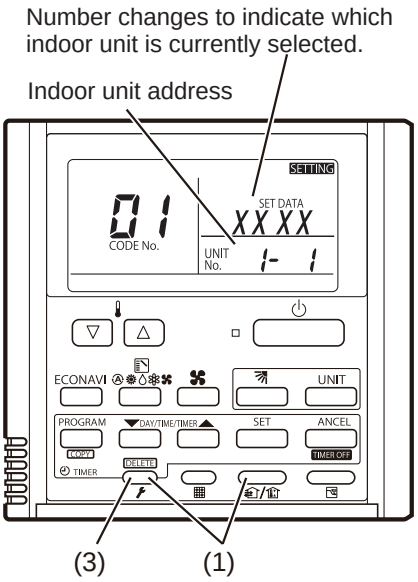
Simple settings		20:30 (THU)
Unit no.	Code no.	Set data
ALL	01	0001
▲▼ Sel. ▶ Next		

(4) Press the ⮌ button and select “YES” to restart.

7

<Procedure of CZ-RTC4>
<If 1 indoor unit is connected to 1 remote controller>

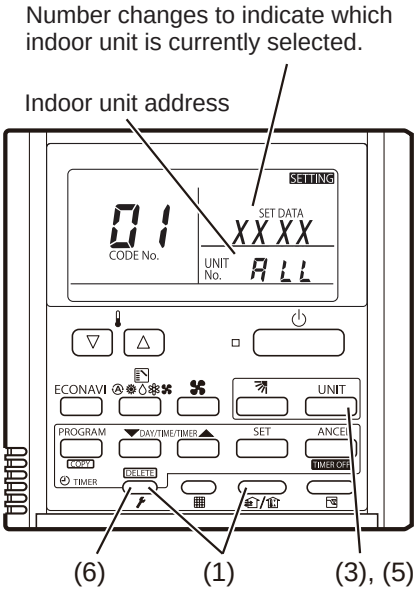
(1) Press and hold the button and button for 4 seconds or longer (simple settings mode).
(2) The address is displayed for the indoor unit that is connected to the remote controller.
(Only the address of the indoor unit that is connected to the remote controller can be checked.)
(3) Press the button again to return to normal remote controller mode.



CZ-RTC4

<If multiple indoor units are connected to 1 remote controller (group control)>

(1) Press and hold the button and button for 4 seconds or longer (simple settings mode).
(2) “ALL” is displayed on the remote controller.
(3) Next, press the UNIT button.
(4) The address is displayed for 1 of the indoor units which is connected to the remote controller. Check that the fan of that indoor unit starts and that air is discharged.
(5) Press the UNIT button again and check the address of each indoor unit in sequence.
(6) Press the button again to return to normal remote controller mode.



CZ-RTC4

Check of ECONAVI Operational Status

The status of ECONAVI operation can be checked instantly.
It is available to check the operation when installing the indoor unit.

<Procedure of CZ-RTC5B>

(1) Keep pressing the [⮌], [↵] and [▶] buttons simultaneously for 4 or more seconds. The "Maintenance func" screen appears on the LCD display.

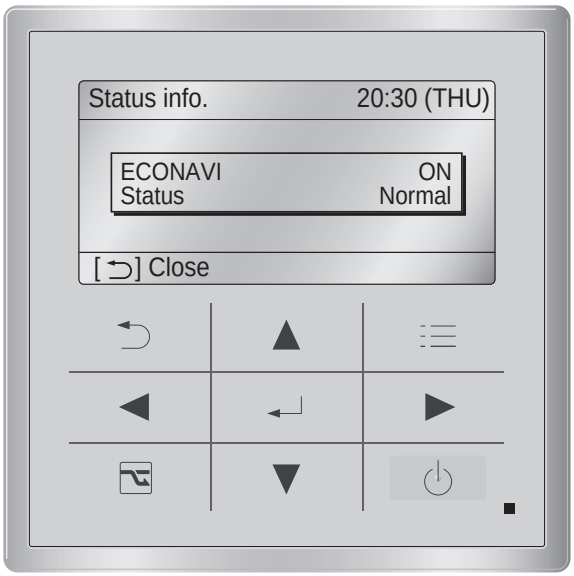
(2) Select "0. ECONAVI info." on the LCD display and press the [↵] button.

Maintenance func 20:30 (THU)
0. ECONAVI info.
1. Outdoor unit error data
2. Service contact
3. RC setting mode
▼ Sel. ▶ Page [↵] Confirm

(3) Press the [▼] or [▲] button to see each menu.

Select "Status info." on the LCD display and press the [↵] button.

ECONAVI info. 20:30 (THU)
Setting info.
Sensor unit info.
System settings
Status info.
▲▼ Sel. [↵] Check



CZ-RTC5B

(4) There are four patterns of operational status display as shown below.

1. Under normal operation

Status info. 20:30 (THU)
ECONAVI ON Status Normal
[⮌] Close

State of no energy-saving operation

2. Under temperature shift

Status info. 20:30 (THU)
ECONAVI ON Status Shift
[⮌] Close

State of energy-saving (temperature shift) operation

3. Under suspension with absentee

Status info. 20:30 (THU)
ECONAVI ON Status Vacant
[⮌] Close

State of energy-saving (suspended) operation

*Shows that air conditioner operation was suspended because no person was detected for a certain period.

This state remains until operation is restarted.

4. Under sensor communication error

Status info. 20:30 (THU)
ECONAVI ON Status Error
[⮌] Close

Shows that the connected ECONAVI sensor is in error state.

7

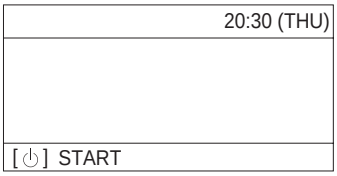
nanoe™ X Display

When the ⚠ nanoe appears on the remote controller (CZ-RTC5B), the status of the nanoe™ X can be checked in the following way.

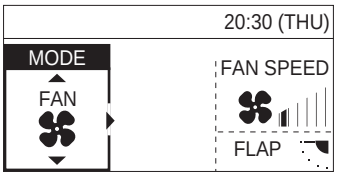
<Procedure of CZ-RTC5B>

(1) Switch On the earth leakage circuit breaker.

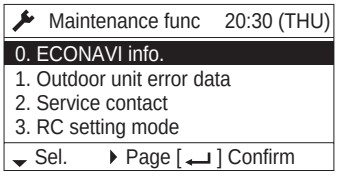
(2) Wait until the remote control display returns to normal.



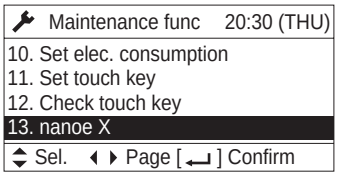
(3) Operate the unit in FAN mode.

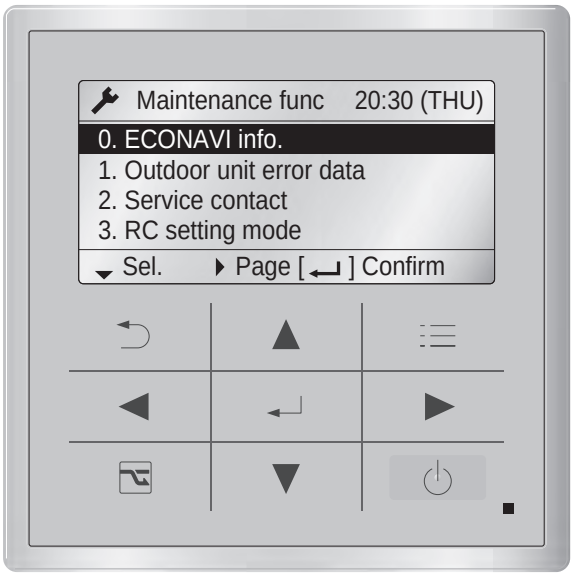


(4) While operating in FAN mode (more than 5 minutes have elapsed), press the ⮌ , ↵ and ▶ buttons simultaneously for 4 or more seconds. The “Maintenance func” screen appears on the LCD display.



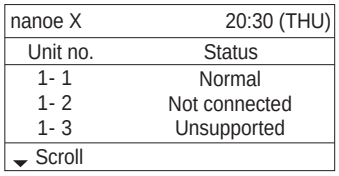
(5) Press the ▼ or ▲ button to see each menu. Select “13. nanoe X” on the LCD display and press the ↵ button.





CZ-RTC5B

(6) Check that the nanoe™ X module status is “Normal”. The indoor unit on the display can be scrolled up or down using ▼ / ▲ buttons.



The nanoe™ X module status of all indoor units will be displayed.

Normal : The nanoe™ X module is operating normally.

Unsupported : The indoor unit is not available to the nanoe™ X function.

*1-1 and 1-2 represent the unit number.

*In the case of “Unsupported”, select “8. Detailed settings” and check the setting data of the Code no. 9.

*If the setting data is “0000”, the nanoe™ X module is not recognized. Check the status of the connection.

If the display other than “Normal” or “Unsupported” appears, check the Step (7) next page.

7

(7) In the case of the nanoe™ X module status other than “Normal” or “Unsupported”

If the menu “13. nanoe X” is not displayed or the module status becomes other than “Normal” or “Unsupported” even though the nanoe™ X module is connected, there is a probability that the following symptoms happen.

Display	Symptom	Countermeasure
Discharge error	The probability of occurrence of nanoe™ X is deviated from the room temperature and humidity conditions. Outside the range of temperature: Below 5°C or over 35°C Outside the range of humidity: Over 86%	There is no abnormality in the nanoe™ X module. Use in the range of appropriate temperature and humidity.
Humidity error	Humidity sensor not connected or sensor failure	Check if connected to the indoor unit PCB of the humidity sensor or replace the sensor.
Faulty connection	The wiring between the indoor unit and nanoe™ X module is not connected.	Specialize the target indoor unit and check the connection to the indoor unit PCB of the nanoe™ X module.
Not connected	There is no abnormality in the nanoe™ X module. Use in the range of appropriate room temperature and humidity.	

*Specialization of the indoor unit can be checked by the operation of the airflow.

Checking method:

1. Stop the maintenance function.

   Press the button to show the maintenance func display. Then press the button.

2. Operate the airflow.

   Select the Unit no. under the “2. Airflow setting”. Make the airflow setting.

   The unit which is corresponded to the preset flap operation will become the target unit.

When the unit is specialized, switch off the earth leakage circuit breaker and unplug the connector of the nanoe™ X module wiring from the PCB. Then plug it in again. Switch on the earth leakage circuit breaker and once again check the Steps 1 to 3. Then check the status by selecting the menu “13. nanoe X”. If “Disconnection failure” or “Not connected” appears on the display, it is necessary to replace the nanoe™ X module with a new one.

7-9. Panasonic H&C Control App

Panasonic H&C Control App

You can use the "Panasonic H&C Control App" on your mobile device to operate the air conditioning unit, make detailed settings for functions such as the energy saving function, etc.

This app is compatible with the following remote controllers.
Check the model number shown in the label on the bottom of the remote controllers.
Models: CZ-RTC6BL / CZ-RTC6BLW (CZ-RTC6 incompatible)



Functions that can be set with the "Panasonic H&C Control App" (some examples)

- **Weekly timer**
  The operation ON/OFF schedule or temperature setting schedule can be set by setting the day and time.
- **Energy saving operation On/Off**
  Operates in an energy saving mode.
- **Power consumption monitor *1**
  Displays the approximate power consumption for a day, a week or a year.
- **Rotation and Backup functions *2**
  The rotation functions helps you equalize the operating times.
  The backup function allows operation to continue even when an error has occurred.

*1 Supported only by models that support the power consumption monitor

*2 Rotation operation is available only when there is a control group of 2 PAC systems (each system being a combination of 1 outdoor unit and 1 indoor unit).

7-9-1. Bluetooth® settings

Before use, confirm the version of the OS on the mobile device and the Bluetooth® version see table below, and install the "Panasonic H&C Control App" onto the mobile device. In addition, be sure to read the "General precautions for Bluetooth® functionality" see page 7-9-1-2.

Required environment

OS version on the mobile device for "Panasonic H&C Control App"	iOS: 10.0 or later Android™: 6.0 or later
Bluetooth® version	4.2 or later

- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.
- iOS is the name of the OS of Apple Inc. IOS is a trademark or registered trademark of Cisco in the US and other countries which has been licensed for use.
- Apple and the Apple logo are trademarks of Apple Inc. that are registered in the US and other countries. App Store is a service mark of Apple Inc.
- Android™, Google Play™ and Google Play™ logos are registered trademarks of Google LLC.

[General precautions for Bluetooth® functionality]

⚠ WARNING

- Do not use the remote controller where pacemaker users may be around. If used, turn off Bluetooth® functionality.
  – Bluetooth® functionality may cause pacemakers to malfunction and lead to an accident.
- Do not use the remote controller near electrical medical devices. If used, turn off Bluetooth® functionality.
  – Bluetooth® functionality may cause these devices to malfunction and lead to an accident.
- Do not use the remote controller near automatic doors, fire alarms, or other automatically controlled devices. If used, turn off Bluetooth® functionality.
  – Bluetooth® functionality may cause these devices to malfunction and lead to an accident.

⚠ CAUTION

- This product is permitted for use only in the country where it was purchased.
- This product uses signals in the 2.4 GHz band.
  – Signals in the 2.4 GHz band are used by medical devices, other similar devices, and nonlicensed amateur radio stations (hereafter referred to as other radio stations).
    1. Before using this product, make sure there are no other radio stations in the vicinity.
    2. If a radio interference occurs between this product and other radio stations, move the product or stop using the product (turn off Bluetooth® functionality).
    3. If problems with radio interference occur, consult the dealer from which the product was purchased.
- Keep an appropriate distance between the product and radio-emitting devices, such as cordless phones, microwave ovens, and wireless LANs, to prevent Bluetooth® interference from these devices that can affect normal operation and performance of the product.
- The following actions may be punishable by law.
  – Disassembling or alteration of this product
  – Removal of certification labels
- The maximum line-of-sight distance of this product is 10 meters.
  This distance will be shorter when obstacles or people are in the path of radio waves or radio interference from appliances (e.g., microwave ovens) exists.

7-9-2. Installing the “Panasonic H&C Control App”

For iOS user	For Android™ user
• Open Download on the App Store.	• Open GET IT ON Google Play.
• Search for “Panasonic H&C Control App”.	• Search for “Panasonic H&C Control App”.
• Download and install.	• Download and install.

- The “Panasonic H&C Control App” is free, but the communication fees for downloading it and updating it are at the customer’s expense.
- The “Panasonic H&C Control App” screen may change without notice due to updates.
- Functions are not displayed in the “Panasonic H&C Control App” screen if the air conditioner does not support them.
- The screen operations are the same on iOS and Android™. The iOS screen has been used in the examples.

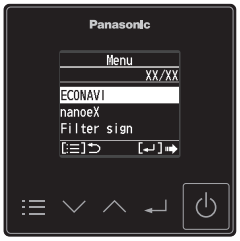
Bluetooth® functionality

1 **Display the menu screen.**

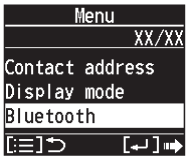
■ **When stopped**
Press [≡].

■ **When operating**
Press [≡] repeatedly until the menu screen is displayed.

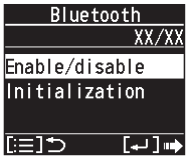
- To return to the top screen, press [≡].



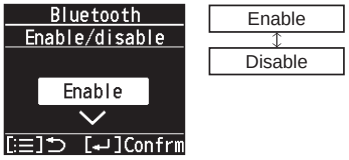
2 **Select [Bluetooth].**
Press [∧] [∨] → [↵].



3 **Select [Enable/disable].**
Press [∧] [∨] → [↵].



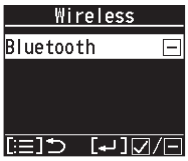
4 **Select [Enable].**
Press [∧] [∨] → [↵] → [≡].
(Press twice to finish.)



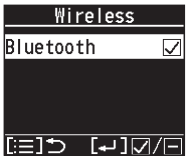
To disable Bluetooth® functionality
1. Start with step 1 and select [Disable] in step 4.
2. Press [↵].
3. Press [≡] twice to finish.

You can also set [Enable/disable] wireless communication with the following procedure.

1. Display the wireless setting screen.
Press [≡] on the top screen.
(Press and hold for 4 seconds or more.)



2. Select ☑ (enable) or − (disable).
Press [↵] → [≡].
(Press to finish.)
- This setting is the same as step 4 on this page.



7

Connecting with the “Panasonic H&C Control App”

Before connecting, set Bluetooth® functionality to [Enable] on the remote controller. (See page 7-9-2-1)
When connecting, try getting the mobile device as close as possible to the remote controller.

1 **Start the “Panasonic H&C Control App”.**

- Remote controllers in the vicinity are displayed on the Home screen.
- Remote controllers that have been paired have “” displayed to the left.

: Remote controller last connected
: Unconnected remote controller within Bluetooth® communication range
: Connected remote controller outside Bluetooth® communication range

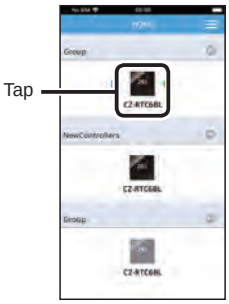




2 **Select the remote controller you want to operate.**

■ **Mobile device**
Tap “ ”.

- If the remote controller is not displayed, slide down to update and the remote controller is detected.



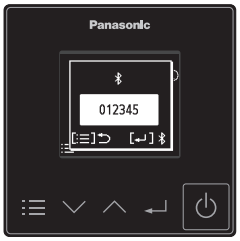


■ **When making Bluetooth® connection for the first time, go to step 3.**
■ **For the second and subsequent Bluetooth® connections, go to step 5.**

3 **Confirm the numbers on the mobile device match the 6 digits on the remote controller.**

- If the numbers do not match, check the remote controller you want to connect again. (step 2)





4 **Start connecting.**

■ **Mobile device**
Tap “Pair”.

■ **Remote controller**
Press .





5 **Confirm that the Bluetooth® connection is completed.**

- “ ” is displayed on the top screen when connection is complete.
- After the first time, connection is automatic and “ ” is displayed on the top screen when connection is complete.



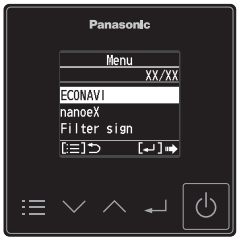


When Bluetooth® connection is complete, mobile device information is stored, and the above steps 3 and 4 are unnecessary next time Bluetooth® connection is made. See “■ To delete all mobile device information stored” on page 7-9-2-3.

■ To delete all mobile device information stored

At first, set Bluetooth® functionality to [Enable].
See “Bluetooth® functionality” on page 7-9-2-1.

1. Display the menu screen.

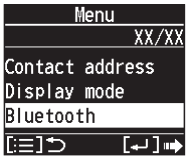


■ **When stopped**
Press .

■ **When operating**
Press repeatedly until the menu screen is displayed.

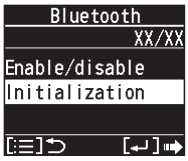
- To return to the top screen, press .

2. Select [Bluetooth].



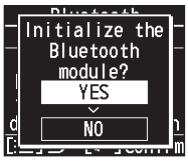
Press → .

3. Select [Initialization].



Press → .

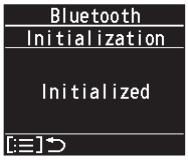
4. Start initialization.



Press → → .
(Select [YES])

- Do not connect the mobile device via Bluetooth® functionality while initializing.

5. Confirm that initialization has completed.



Confirm, then press .
(Press 3 times to finish.)

Note

- Delete information of Bluetooth® connection with the remote controller stored on the mobile device as well.

7-9-3. Simple Settings Function

This App allows the filter lifetime, operating mode priority change, central control address, and other settings to be made for an individual or groupcontrol indoor / outdoor unit.
When simple settings mode is engaged, operation stops at the individual or group-control indoor / outdoor unit.

<Procedure of Panasonic H&C Control App>

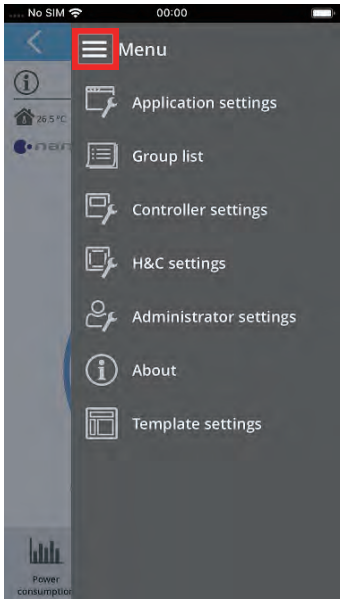
1. Tap “ ☰ ”

   Open Menu list.



2. Tap “ ☰ ” for 3 seconds or longer and release.

   Tap “ ☰ ” for 3 seconds or longer and release again.

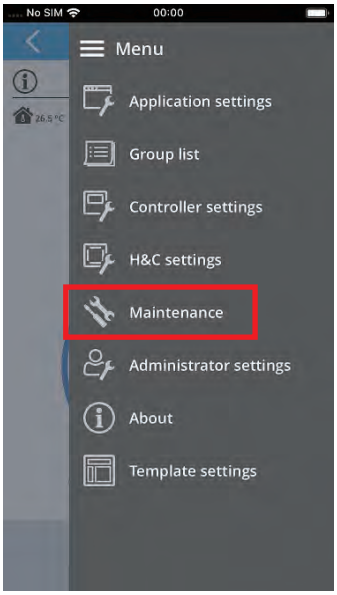


3. If successful, the menu screen will close. If Menu list does not close, perform step 2 again.



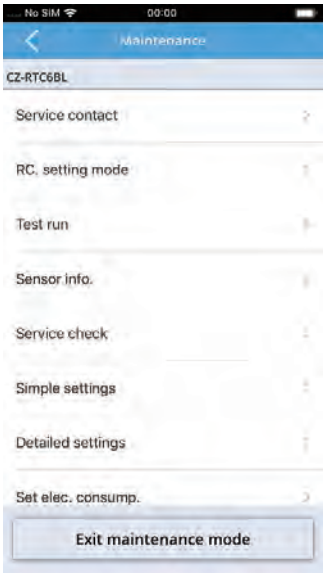
4. Open Menu list again,

Maintenance is displayed.



5. Tap “ Maintenance ”

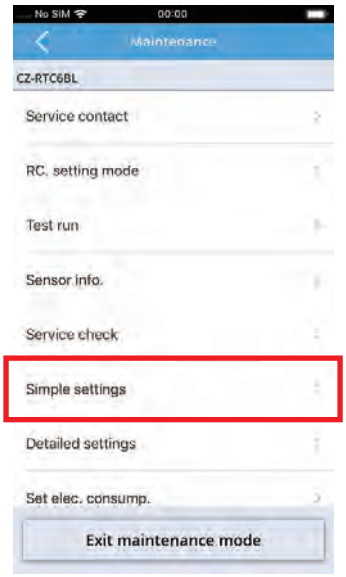
Open Menu list of “Maintenance” .



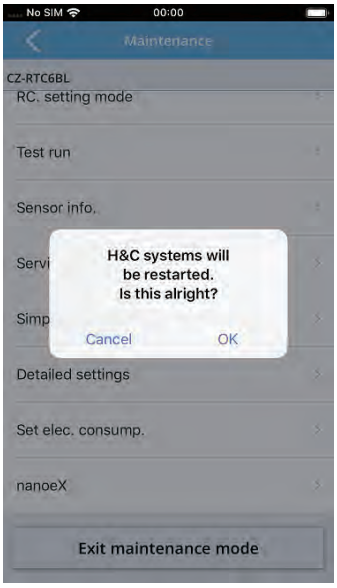
Menu list of “Maintenance”

7

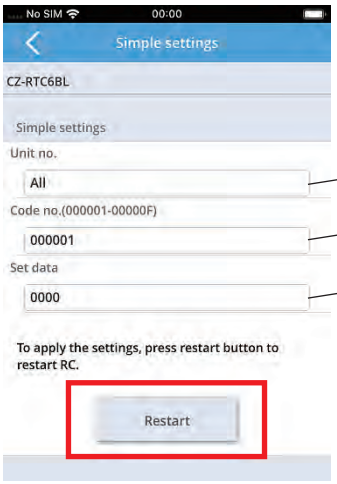
6. Tap “ Simple settings ”



7. A dialog will appear stating that a reboot will occur. If there is no problem, tap “ OK ” .



8. Set “ Unit no.” / “ Code no.” / “ Set data ” .
Then tap “ Restart ”



Change “Unit no”

Change “Code no” See “7-9-4. List of Simple Setting Items”

Change “Set data” See “7-9-4. List of Simple Setting Items”

9. The unit will restart and return to the HOME screen.



7-9-4. List of Simple Setting Items

Code no.	Item	Set data		
		No.	Description	
000001	Filter sign ON time (filter life time)	0000	Not displayed	
		0001	150 hours	
		0002	2,500 hours	
		0003	5,000 hours	
		0004	10,000 hours	
		0005	Use the filter clogging sensor.	
000002	Degree of filter fouling	0000	Standard (setting at time of shipping)	
		0001	Highly fouled (Filter sign ON time is reduced to one-half the set time.)	
000003	Central control address	0001	Central control address 1	
		0002	Central control address 2	
		0003	Central control address 3	
		≀	≀	
		0064	Central control address 64	
		0099	No central control address set (setting at time of shipping)	
000004	Operating mode priority change	0000	Normal (setting at time of shipping)	
		0001	Priority	
000005	Fan speed when heating thermostat is OFF		Compressor ON	Compressor OFF
		0000	Lo 1 min., LL 3 min.	LL
		0001	Lo	LL
		0002	LL	LL
		0004	Lo 1 min., LL 3 min. Lo	Lo
		0005	Lo	Lo
		0006	LL	Lo
000006	Heating intake temperature shift	0000	No shift	
		0001	Shifts intake temperature 1 °C down.	
		0002	Shifts intake temperature 2 °C down.	
		0003	Shifts intake temperature 3 °C down.	
		0004	Shifts intake temperature 4 °C down.	
		0005	Shifts intake temperature 5 °C down.	
		0006	Shifts intake temperature 6 °C down.	
000007	Electric heater installation	0000	No heater	
		0001	Heater installed	
000008	Humidifying when heater thermostat is OFF	0000	No (setting at time of shipping)	
		0001	Yes	
00000d	Permit/prohibit automatic heating/cooling	0000	Permit	
		0001	Prohibit	
00000F	Cool-only	0000	Normal	
		0001	Cool only (Set “1” for item code OD.)	

NOTE

- In order to avoid water leakage and damage to the fan, do not set for humidifying when the thermostat is OFF unless a vaporizing humidifier is used.
- Consider the device purpose and type when changing the settings. Incorrect settings may result in malfunction.
- Do not change any setting data that does not appear in this list.

7-9-5. Detailed Settings Function

This app allows to set the system address, indoor unit address, and other settings for connected individual or group-controlled indoor / outdoor units.
When detailed settings mode is engaged, operation stops at the individual or group-control indoor / outdoor unit. Simple settings items can also be set at this time.

<Procedure of Panasonic H&C Control App>

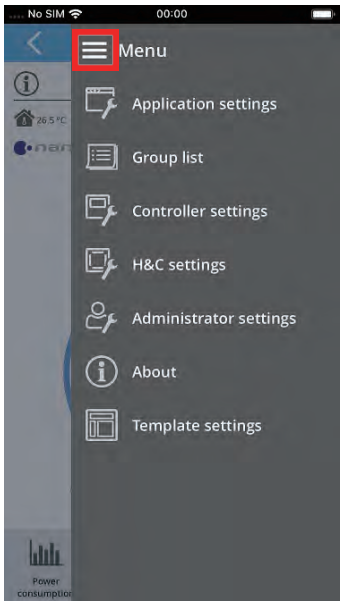
1. Tap “ ☰ ”

   Open Menu list.



2. Tap “ ☰ ” for 3 seconds or longer and release.

   Tap “ ☰ ” for 3 seconds or longer and release again.



7

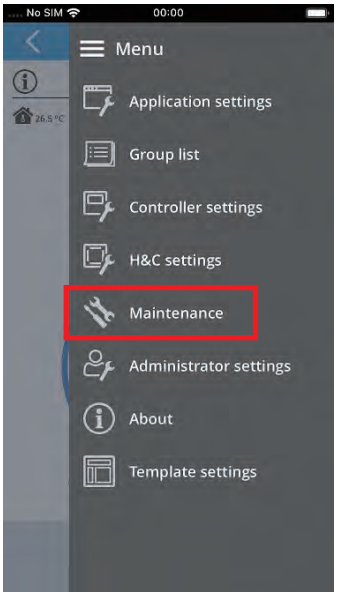
3. If successful, the menu screen will close. If Menu list does not close, perform step 2 again.



4. Open Menu list again,

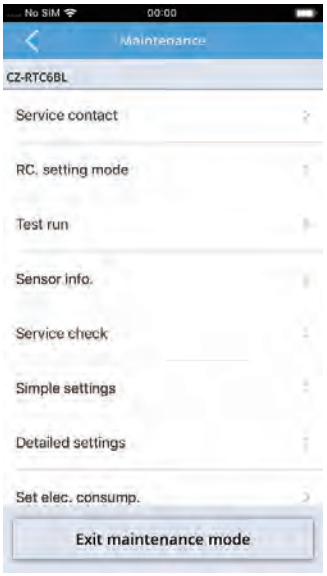


is displayed.



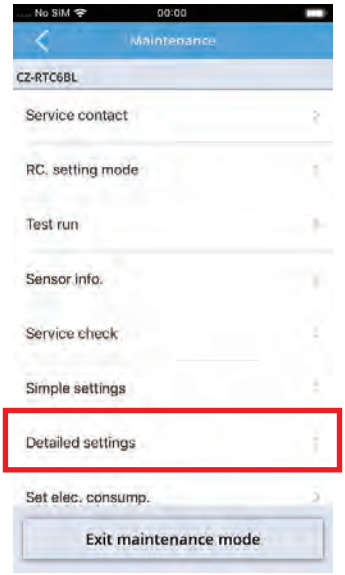
5. Tap “ Maintenance ”

Open Menu list of “Maintenance” .

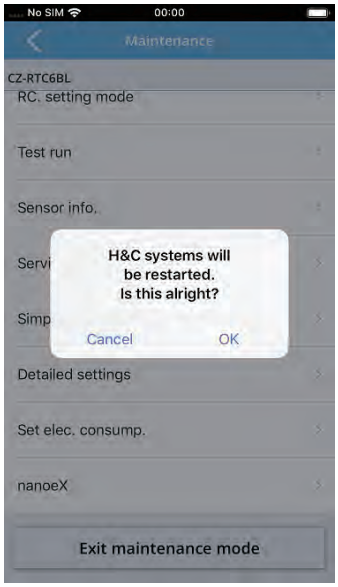


Menu list of “Maintenance”

6. Tap “ Detailed settings ”



7. A dialog will appear stating that a reboot will occur. If there is no problem, tap “ OK ” .



8. Set “ Unit no.” / “ Code no.” / “ Set data ” .
Then tap “ Restart ”



Change “Unit no”

Change “Code no” See “7-9-6. List of Detailed Setting Items”

Change “Set data” See “7-9-6. List of Detailed Setting Items”

9. The unit will restart and return to the HOME screen.



7

7-9-6. List of Detailed Setting Items

Code no.	Item	Set data					
		No.	Description		No.		Description
000010	Type	0001	4-Way Cassette (U3) 4-Way Cassette 60 × 60 (Y3)		0005		Middle Static Pressure Duct (F3)
		0007	Ceiling (T3)		0008		Wall Mounted (K3)
000011	Indoor unit capacity				0003	28	S-25PY3E Y3
		0005	36	S-3650PU3E (36) U3 S-3650PF3E (36) F3 S-3650PK3E (36) K3 S-3650PT3E (36) T3 S-36PY3E Y3	0007	45	S-3650PU3E (45) U3 S-3650PF3E (45) F3 S-3650PK3E (45) K3 S-3650PT3E (45) T3
		0009	56	S-3650PU3E (50) U3 S-3650PF3E (50) F3 S-3650PK3E (50) K3 S-3650PT3E (50) T3 S-50PY3E Y3	0011	71	S-6071PU3E (60) U3 S-6071PF3E (60) F3 S-6010PK3E (60) K3 S-6071PT3E (60) T3 S-60PY3E Y3
		0012	80	S-6071PU3E (71) U3 S-6071PF3E (71) F3 S-6010PK3E (71) K3 S-6071PT3E (71) T3	0015	112	S-1014PU3E (100) U3 S-1014PF3E (100) F3 S-6010PK3E (100) K3 S-1014PT3E (100) T3
		0017	140	S-1014PU3E (125) U3 S-1014PF3E (125) F3 S-1014PT3E (125) T3	0018	160	S-1014PU3E (140) U3 S-1014PF3E (140) F3 S-1014PT3E (140) T3
000012	System address	0001	Unit no. 1				
		0002	Unit no. 2				
		0003	Unit no. 3				
		〈	〈				
		0030	Unit no. 30				
		0099	Not set				
000013	Indoor unit address	0001	Unit no. 1				
		0002	Unit no. 2				
		0003	Unit no. 3				
		〈	〈				
		0064	Unit no. 64				
		0099	Not set				
000014	Group control address	0000	Individual (1:1 = Indoor unit with no group wiring)				
		0001	Main unit (One of the group-control indoor units)				
		0002	Sub unit (All group-control indoor units except for main unit)				
		0099	Not set				
000017	Cooling intake temperature shift	−010	Shifts intake temperature 10°C down.				
		−009	Shifts intake temperature 9°C down.				
		〈	〈				
		−001	Shifts intake temperature 1°C down.				
		0000	No intake temperature shift				
		0001	Shifts intake temperature 1°C up.				
		〈	〈				
		0009	Shifts intake temperature 9°C up.				
		0010	Shifts intake temperature 10°C up.				

(Continued)

Code no.	Item		Set data	
			No.	Description
000018	Automatic stop time after operation start *Can be set in 5-minute units.		0000	Function disabled
			0001	Stops automatically 5 minutes after operation starts.
			0002	Stops automatically 10 minutes after operation starts.
			〜	〜
			0123	Stops automatically 615 minutes after operation starts.
			0124	Stops automatically 620 minutes after operation starts.
			0125	Stops automatically 625 minutes after operation starts.
00001b (1B)	Forced thermostat ON time		0000	5 minutes
			0001	4 minutes
00001E	Temperature shift for cooling/heating change in auto heat/cool mode		0001	± 1°C
			0002	± 2°C
			0003	± 3°C
			〜	〜
			0007	± 7°C
00001F (Upper limit) 000020 (Lower limit)	Change to remote control temperature setting range	Cooling	0018	18°C (Lower limit at shipment)
			0019	19°C
			〜	〜
			0029	29°C
			0030	30°C (Upper limit at shipment)
000021 (Upper limit) 000022 (Lower limit)		Heating	0016	16°C (Lower limit at shipment)
			0017	17°C
			〜	〜
			0029	29°C
			0030	30°C (Upper limit at shipment)
000023 (Upper limit) 000024 (Lower limit)		Drying	0018	18°C (Lower limit at shipment)
			0019	19°C
			〜	〜
			0029	29°C
			0030	30°C (Upper limit at shipment)
000025 (Upper limit) 000026 (Lower limit)		Auto heat/cool	0017	17°C (Lower limit at shipment)
			0018	18°C
			〜	〜
			0026	26°C
			0027	27°C (Upper limit at shipment)
000029	Humidifier operation		0000	Normal
			0001	Ignore heat exchanger temperature conditions.
00002A	Filter (CN70) input switching		0000	Filter input (differential pressure switch input)
			0001	Alarm input (for trouble input about air cleaner or similar device)
			0002	Humidifier input (Operates linked with drain pump when humidifier is ON.)
00002C	Indoor unit electronic control valve		0000	None
			0002	Present (Setting at shipment)
00002E	T10 terminal switching		0000	Normal (Used as optional relay PCB or JEMA standard HA terminal.)
			0001	Used for OFF reminder
			0002	Fire prevention input

(Continued)

Code no.	Item	Set data	
		No.	Description
00002F	Automatic drain pump operation	0000	No forced operation
		0001	Forced operation for 1 minute
		≀	≀
		0060	Continuous operation
000031	Ventilation fan operation	0000	None
		0001	Ventilation fan operated by remote controller.
000032	Wired remote controller sensor	0000	Not used. (Body sensor is used.)
		0001	Remote control sensor is used.
000034	"Operation change control in progress" display	0000	Normal (displayed)
		0001	Not displayed
000035	OFF reminder function for when weekly timer is used	0000	None
		0001	Only stop time setting is enabled.
00003C	Heat exchanger temperature for cold air discharge (Heat exchanger control point for control to prevent cold air)	-001	Control temperature -1°C
		0000	Control temperature 0°C
		≀	≀
		0025	Control temperature 25°C
		0026	Control temperature 26°C
00003d	Fan output switching	0000	Output linked with fan.(ON when indoor unit fan is operating.)
		0001	Fan mode operation output
00003E	Drain pump delayed stop time	0000	No delayed stop
		0001	1minutes delayed stop
		0002	2minutes delayed stop
		≀	≀
		0058	58minutes delayed stop
		0059	59minutes delayed stop
		0060	60minutes delayed stop
000040	Humidifier setting	0000	Humidifier output OFF. Drain pump stopped.
		0001	Humidifier output ON. Drain pump operates.
		0002	Humidifier output ON. Drain pump operates for 1 minute when total humidifier operating time reaches 60 minutes.
		0003	Humidifier output ON. Drain pump stopped.
000045	Flap operation mode	0000	Standard setting
		0001	Draft reduction mode (Flap lower-limit position is shifted upwards.)
000046	Flap swing mode	0000	Smudging reduction mode (Flap swing upper-limit position is shifted downwards.)
		0001	Normal mode
		0002	Draft reduction mode (Flap swing lower-limit position is shifted upwards.)

(Continued)

Code no.	Item	Set data	
		No.	Description
00005d	Fan tap setting (Fan tap change in order to prevent drop in air discharge caused by filter installation)		Purpose
		0000	Standard (factory setting)
		0001	High ceiling setting 1 (U3, T3)
			Air-flow blocking kit (when a duct is connected : U3)
			Air-flow blocking kit (for 3-way air flow : U3)
		0003	High ceiling setting 2 (U3)
		0006	Air-flow blocking kit (for 2-way air flow : U3)
00005E	Humidifier ON time (ON time per 60 seconds)	0000	No humidifier output
		0001	1 second
		0002	2 seconds
		≀	≀
		0058	58 seconds
		0059	59 seconds
		0060	Continuously ON
000060	Timer function change prohibit	0000	Function disabled
		0001	Function enabled
000062	Smudging control	0000	No smudging control
000086	Fan speed when cooling thermostat OFF	0000	Fan speed setting
		0003	LL 3min.→Fan speed setting
		0009	LL
0000FC	Refrigerant adaptability	0000	None
		0001	Standard (factory setting)

NOTE

- Consider the device purpose and type when changing the settings. Incorrect settings may result in malfunction.
- Do not change any setting data that does not appear in this list.

8. HOW TO INSTALL THE WIRELESS (INFRARED) REMOTE CONTROLLER RECEIVER

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8-1. Important Safety Instructions

⚠ WARNING

Installation Precautions

- Do not install yourself
  Installation should always be performed by your dealer or a professional service provider.
  Electric shock or fire may result if an inexperienced person performs any installation or wiring procedures incorrectly.
- Use only specified air conditioners
  Always use only air conditions specified by the dealer.

Precautions for Use

- Do not touch switches with wet hands
  Electric shock and damage to the system can result.
- Protect the remote controller from water Damage to the system can result.
- Stop the system and turn the power off if you sense unusual smells or other irregularities
  Continuing operation when the system is out of order can result in electric shock, fire, and damage to the system.
  Contact your dealer.
- Do not swallow the battery.

Moving and Repair Precautions

- Do not repair
  Never repair the system by yourself.
- Contact your dealer before moving the system
  Contact your dealer or a professional service provider about moving and reinstalling the system.
  Electric shock or fire may result if an inexperienced person performs any installation procedures incorrectly.

8-2. Wireless (Infrared) Remote Controller CZ-RWS3

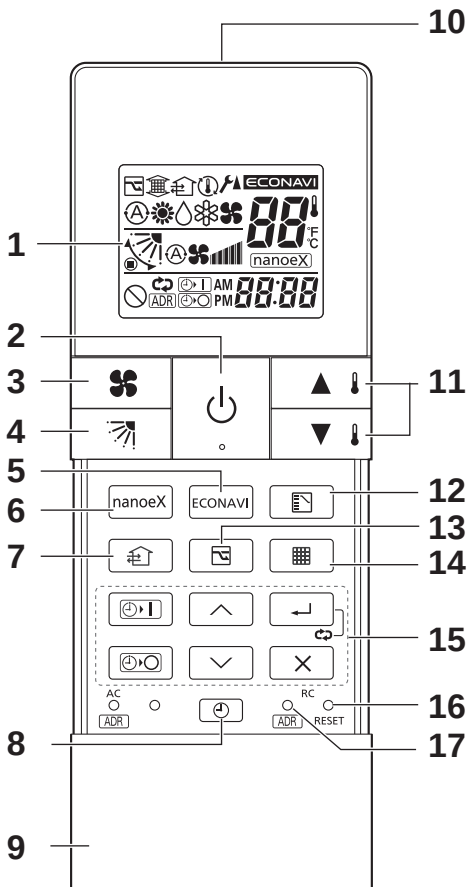
8-2-1. Operating Instructions

1 remote controller can control a group of up to 8 indoor units.
(See “8-2-1-7. Operating Multiple In / Outdoor Units Simultaneously (Group Control)”)

8-2-1-1. Names and Operations

REMOTE CONTROLLER

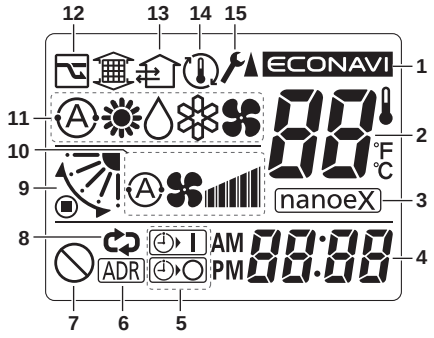
1. Operation Display	Displays the operation status. (The figure shows all the statuses.)
2. Start/Stop button	Pressing this button once starts and pressing again stops the operation.
3. Fan speed button	Press to change the fan speed.
4. Flap button	Press to change the flap direction.
5. ECONAVI button	Press to set ECONAVI.
6. nanoe™ X button	Press to set nanoe™ X.
7. Ventilation button	Use this when connected to an aftermarket fan.
8. Clock button	Use this to set the clock.
9. Cover	Press at the top centre and then slide down.
10. Transmitter	
11. Temperature setting buttons	▲ raises the temperature setting 1 °C at a time. ▼ lowers the temperature setting 1 °C at a time.
12. Mode Select button	Press to switch the operation mode.
13. Energy saving button	Press to enable or disable energy saving.
14. Filter button	Press to turn off the filter lamp on the receiver.
15. Timer setting buttons	/ / / / / Use for operating with a timer.
16. RC reset button	Use this button after changing the batteries.
17.RC address button	Press to set addresses.



From this page, the names of remote controller’s buttons will be indicated with the above illustrations.
E.g.: Start/Stop button →

8

Screen display

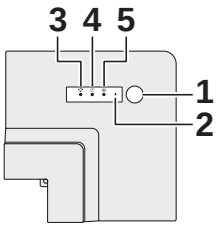


1 Appears when ECONAVI is being set to ON.
2 Indicates the set temperature.
3 Appears when nanoe™ X is being set to ON.
4 Displays the present time.
5 Timer program indication
: The indoor unit starts operation at the programmed time.
: The indoor unit stops operation at the programmed time.
6 Indicates the remote controller addresses are set.
7 Appears when the function is not available.
8 The ON timer or the OFF timer will operate repeatedly every day.
9 Indicates the flap position.
10 Indicates the fan speed.
11 Displays the selected operation mode. (AUTO Ⓐ /HEAT ☼ / DRY ◊ /COOL ❄ /FAN)
12 Energy saving operation is in process.
13 Appears when a fan available in the market is installed and is operating.
14 "Temperature Automatic Return" is set.
15 Appears when the setting screen is displayed.

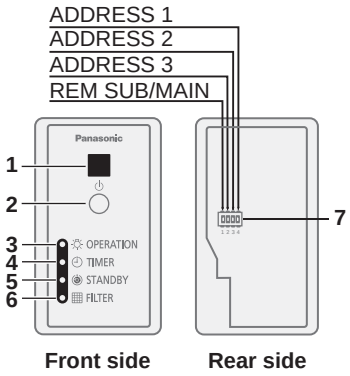
RECEIVER

1. Receiver	Receives the signal sent from the remote controller.
2. Emergency operation button	See "8-2-1-10. Emergency Operation". **Indicator lamps** When an error occurs, one of the lamps flashes. When an indicator lamp is flashing, see "8-2-1-18. Troubleshooting".
3. OPERATION lamp	Lights up when the unit is operating.
4. TIMER lamp	Lights up when the timer is set.
5. STANDBY lamp	The lamp in the HEAT mode lights up at the following times: during the startup, during the thermostat operation, and during the defrosting.
6. FILTER lamp	This lamp is for notifying you when the filter needs to be cleaned.
7. Address switch	See "8-2-1-9. Pairing Addresses".

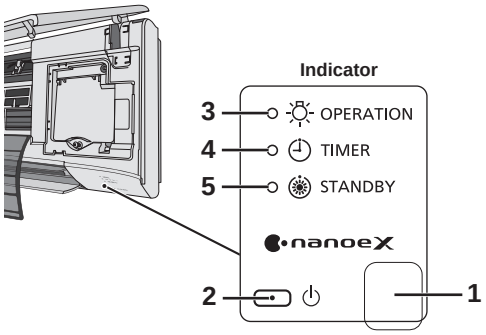
CZ-RWRU3
CZ-RWRU3W



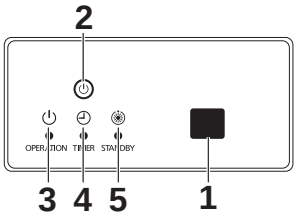
CZ-RWRC3



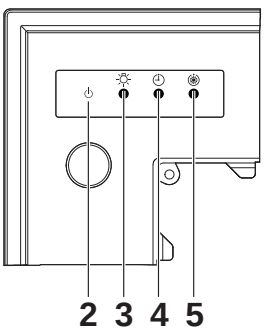
Indoor Unit : Wall Mounted Type



CZ-RWRT3



CZ-RWRY3



8

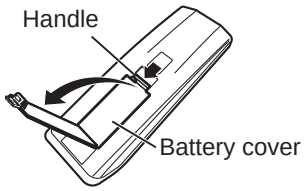
NOTE

- If a heat pump type is being used, it will beep twice and the operating lamp will light up on the display; if the timer and standby lamps blink alternately, a conflict between the heating and cooling exists, so the unit cannot operate in the desired mode. (On models that do not have an Auto function, even if Auto is selected, it works in the same way.)
- When the local operation is disabled by centralized control or similar cause, and if the Start/Stop [⏻], Mode [▣] or Temperature setting button [▲] [▼] is pressed, the unit will beep five times and the change will not be made.

8-2-1-2. Installing Batteries

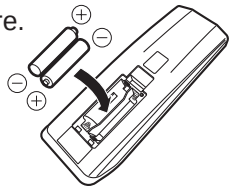
1. Remove the battery cover.

- Pinch the handle and open while pressing it towards the ▼ mark.



2. Insert two LR03 size batteries.

Put the batteries in with the polarity [+/–] as shown in the figure.

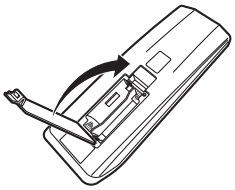


3. Gently insert one end of an unfolded paper clip (or a similar object that can fit) into the RC reset hole and press the RC reset button inside the hole.

- Take the batteries out and insert again if the time display is not "0:00" or "AM 12:00".



4. Put the battery cover back on.



■Notes on batteries

- The battery life is approximately 1 year.
- Reception may become poor or display on the remote controller fades when batteries are low.
- If the remote controller will not be used for a long period of time, remove the batteries. (In order to avoid a battery leak.)
- Emergency operations can be performed on the unit when the batteries run out. (See "8-2-1-10. Emergency Operation")

■Replacing batteries

- Replace both batteries at the same time with 2 LR03 size batteries.
- Do not use rechargeable batteries (NiCd, NiMH, etc.) because their size, shape, and some performance are different.
- Dispose of the old batteries at the designated sites in your community.
- The unit is restored with the factory setting when batteries are removed.
- After changing the batteries, reset the current time. (See "8-2-1-3. Setting the Current Time")

8-2-1-3. Setting the Current Time

1. Press [🕐] for 2 seconds or longer.

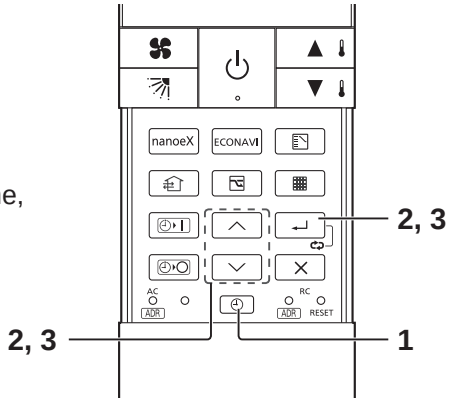
- The time display flashes. (The colon lights up.)

2. Press [∧] / [∨] to set the hour, then press [↵].

3. Press [∧] / [∨] to set the minutes, then press [↵].

Note

- If the buttons are not pressed for a certain duration while setting the time, the displayed time is set.
- Adjust the time periodically.



8-2-1-4. Operation

Hold the remote controller with your hand and point its transmitter at the receiver.

Power: Turn on the circuit breaker beforehand, see Section "2. TEST RUN".

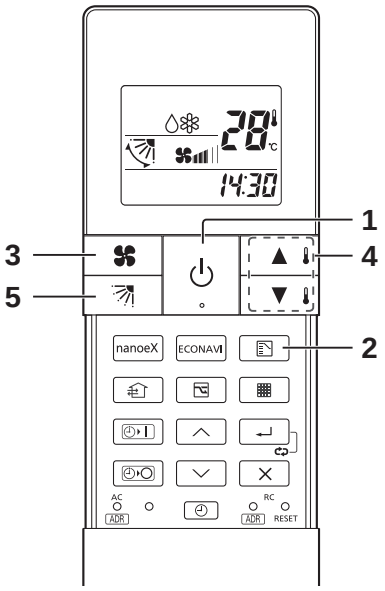
1. Press [⏻].

2. Press [ ] to select the operation mode.

- Every time you press [ ], it cycles from "Auto Ⓐ → Heat ☀ → Dry 💧 → Cool ❄ → Fan 🌀 ".
- Models that only provide the cooling function cannot operate in the Auto or Heat mode.
- The available functions differ depending on the indoor unit being used. See "8-2-1-11. Miscellaneous Settings" for how to change the operation mode display.

3. Press [ ] to select the fan speed.

- Every time you press [ ], it cycles from " → → → → → Ⓐ (Auto)".
- Auto does not work in Fan mode.
- If the unit is not heating very effectively with a fan speed " ", switch the fan speed to " " or " ".
- The available functions differ depending on the indoor unit being used.
- " ⃠ " is displayed if the function is not available.



4. Press [▲] / [▼] to set the temperature.

	MAX (°C)	MIN (°C)
Auto Ⓐ	27	17
Heat ☀	30	16
Dry 💧 / Cool ❄	30	18

- Temperature settings cannot be made in Fan mode.
- The temperature range that can be set varies depending on the model.
- The maximum temperature varies depending on the system and operating condition. See "8-2-1-11. Miscellaneous Settings" for how to change the maximum temperature.

5. Press [ ] to select the flap direction.

- Every time you press [ ], it cycles from " → → → → → → (Swing) → (Stop)".
- If you press [ ] again while the flap is swinging, you can stop the flap from swinging and set it in place as desired.
- When the unit is in heating standby, the flap (up-down wind direction plate) faces upwards.
- The available functions differ depending on the indoor unit being used.
- " ⃠ " is displayed if the function is not available.
- **Never try to manually move the flap (up-down wind direction plate) that is operated by the remote controller.**

Stop: Press [⏻].

- If you cannot turn the air conditioner off in the normal way, disconnect the power to the indoor unit and contact the dealer where the product was purchased.
- When the unit is stopped with the remote controller, the fan on the outdoor unit may continue to run for a while.

< Auto operation >

It heats or cools automatically via the differences between the set temperature and the room temperature.
Auto operation is available only when identical refrigerant system inside all the indoor units or cooling/heating free-type are under control as 1 group.

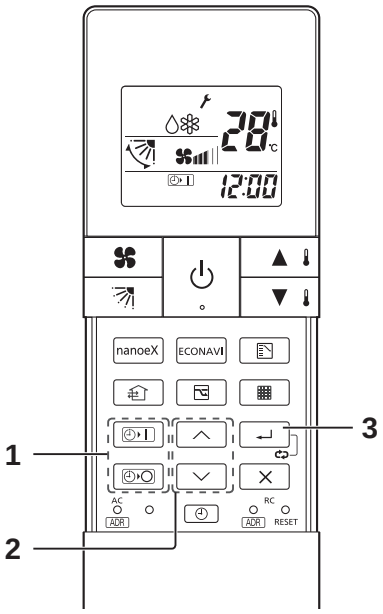
8-2-1-5. Timer Operation

- When setting the timer, make sure the current time on the remote controller is accurate.
- The timer's clock can only be set when the display of the remote controller is ON.
- After setting the timer, put the remote controller for in a place where its signal will reach the receiver of the indoor unit.

1. Press [ON] or [OFF] twice.
- The time last set on the timer starts blinking. ("--:--" blinks when the timer is not set or after replacing batteries.)

2. Press [∧] / [∨] to set the timer to the desired time.
- Every time you press [∧] / [∨], the time changes in 10 minute increments.
- If you press and hold the button, the time changes quickly.

3. Press [↵].
- The timer display stops blinking and the display reverts to the current time after 3 seconds.
- "[ON] / [OFF]" is displayed when set.



Combining ON and OFF Timers

1. The ON and OFF timers can be set respectively.

Checking the timer setting

1. Press [ON] or [OFF].
- The scheduled time is displayed for 4 seconds.
- When the timer is not set or after replacing batteries, it displays "--:--". (Initial setting)

Changing a timer setting

1. Perform Step 1 to 3 noted above as you did when setting.

Canceling a timer setting

1. Press [×].
- If you wish to cancel the setting for either the [ON] or the [OFF] timer, press [×] while the scheduled time is displayed.

Using the same timer setting every day

1. Press [↵] for 2 seconds or longer.
- "↻" is displayed when set.
- If you press [↵] again for 2 seconds or longer, "↻" goes off and the timer operates only once.

8-2-1-6. Lock Individual Flap

(Supported models: 4-way ceiling cassette type) You can set the flap for each air outlet individually according to the room condtion.

- Even if the flap setting is changed with [ ] (See Step 5. of "8-2-1-4. Operation"), the flap directions set here are not changed.

1. Press [ ] and [ ] at the same time for 4 seconds or longer.

- " " starts blinking and the setting screen is displayed.

2. Press [▲] / [▼] to select the indoor unit to set, then press [ ].

- Every time you press / to switch between "U1 ↔ U2 ↔ …↔ U8 ↔ AL (All indoor units that are connected to the remote controller)", the buzzer sounds from the corresponding receiver.
- When settable: 1 short beep
- When not settable*: 1 short beep followed by 1 long beep
  * When the indoor unit is not connected or does not support this function.

3. Press [ ] / [ ] to select the air outlet.

- Every time you press [ ] / [ ], it cycles from "F1 ↔ F2 ↔ F3↔ F4 ↔ AL (All the air outlets)".
- The square mark (indented ■) on the panel of the indoor unit indicates air outlet No. 1.
  There are some models that do not have a square mark (indented ■).
- The air outlet No. changes according to the installation direction.
  Check by actual operation.

4. Press [▲] / [▼] to select the flap direction, then press [ ].

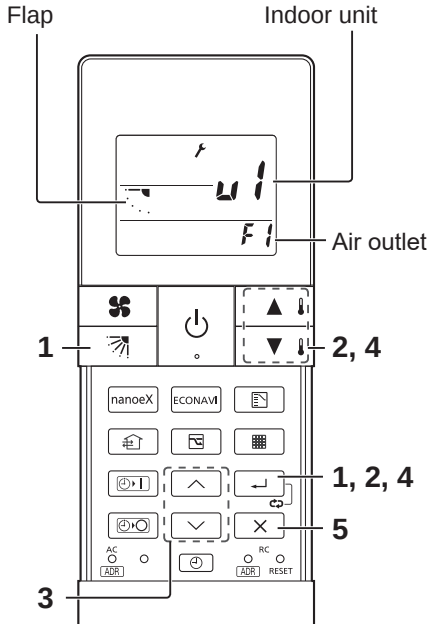
- Every time you press [▲] / [▼], it cycles from " (Unlock) ↔ (Swing) ↔ ↔ ↔ ↔ ↔ ↔ ".

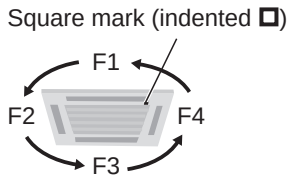
5. Press [ ].

- You can return to Step 2 to continue setting if you press [ ] instead of [ ].

Note

- Press [ ] to stop operation in the middle.

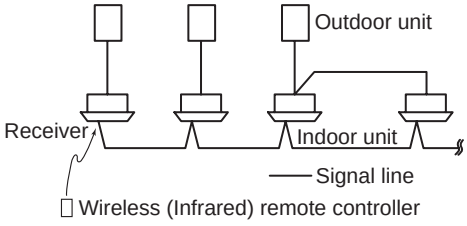




8-2-1-7. Operating Multiple In / Outdoor Units Simultaneously (Group Control)

Group control works well for providing air conditioning to 1 large room with more than 1 air conditioning units.

- 1 remote controller can operate up to 8 indoor units.
- All the indoor units have identical settings.
- Set temperature sensing to the indoor unit (Main sensor).
  (See "8-2-1-1. Names and Operations")



8

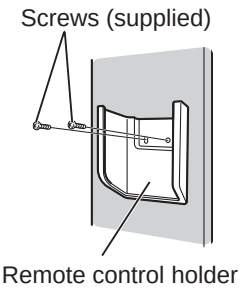
8-2-1-8. Using the Remote Controller

- Hold the remote controller with your hand and point its transmitter at the receiver. When the signal is received properly, it will beep.
- Signals can travel a direct distance of 6 metres. This distance should be used only as a guide. It depends on battery strength.
- Make sure nothing is between the remote controller and the receiver that could block the signal.
- Do not leave the remote controller in direct sunlight, where the wind from the air conditioner can blow directly on it, or near any other heat source.
- Take care not to drop, throw, or wash the remote controller with water.
- The signal from the remote controller may not be received in rooms with rapid start fluorescent lighting or inverter lights.
  For more information, please contact the dealer where the product was purchased.

Wall Mount Use

■ Mounting the holder

1. Fasten the remote control holder with screws.

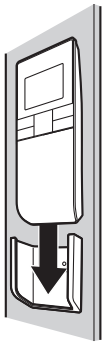


2. Slide the remote controller down into the holder.

- Press ⏻ from the location you wish to mount the remote controller and make sure the signal is received properly.

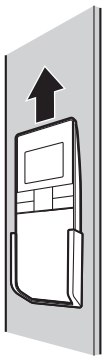
Note

- You cannot operate if the distance between the remote controller and the receiver is greater than that signals can travel.



■ Detaching the controller

1. Pull the remote controller up.



8

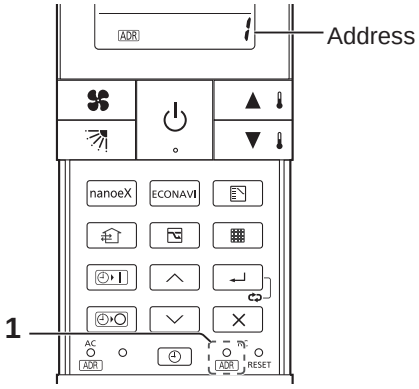
8-2-1-9. Pairing Addresses

When more than 1 indoor units are installed in the same room with a compatible remote controller, addresses can be set up to avoid crosstalk.
You can control up to 6 indoor units individually by the supported remote controller by pairing the address on the remote controller and the number on the address switch on the receiver.
There are separate address settings: receiver addresses for the receivers, and transmitter addresses for the remote controller.
Units will not be controlled if the setting do not match.

Checking Addresses

1. Press [RC ADR] with one end of an unfolded paper clip (or a similar object that can fit).

- Its current address appears on the display for 5 seconds.
- If this address corresponds to the address of a receiver, the buzzer sounds. (If it is on ALL, the buzzer will always sound.)
- If it is on ALL, it can be operated regardless of receiver addresses. Point the remote controller at the receiver you wish to operate and transmit.



Matching Up Addresses

■If not wall mounted type indoor unit

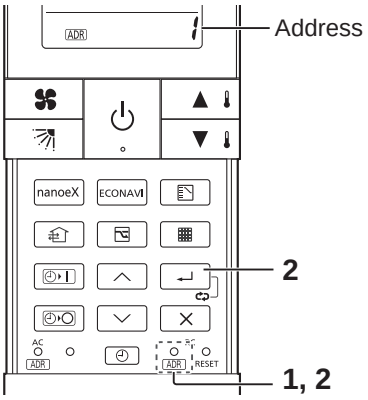
< Setting Remote Controller Addresses >

1. Press [RC ADR] with one end of an unfolded paper clip (or a similar object that can fit) for 4 seconds or longer.

- The current address number starts blinking.

2. Press [RC ADR] to select the address of the receiver you want to control, and press [↵].

- Every time you press [RC ADR], it cycles from “ALL (All the addresses) →1 → 2 → 3 → 4 → 5 → 6” .
- If it corresponds to the receiver’ s address setting, the buzzer sounds.



Note

- Set the address of the receiver as instructed in the operating instructions of your receiver. Do not set by yourself. Contact the dealer where the product was purchased.

■For wall mounted type indoor unit

< Setting the address of the indoor unit >

1. Press [Emergency Operation] ⏻ of the indoor unit for 4 seconds or longer.

- OPERATION lamp, TIMER lamp, and then STANDBY lamp repeatedly light one after the other for 1 second each to indicate the unit is ready for address setting.

< Setting Remote Controller Addresses >

2. Set the address for the remote controller following the procedure under the section “■If not wall mounted type indoor unit” (see this section noted above).

- Repeat Step 2 under “■If not wall mounted type indoor unit” if you are setting more units.
- The address setting ready status of the indoor unit ends if data transmission is not received from the remote controller for 3 minutes.
- Press [Emergency Operation] ⏻ on the receiver to end the address setting ready status of the indoor unit.

8

8-2-1-10. Emergency Operation

Use [Emergency Operation] ⏻ in the following situations when there is an urgent need.

- When the remote controller's batteries have failed.
- When the remote controller is broken.
- When the remote controller is lost.

* See the following figures regarding Emergency button.

1. Press [Emergency Operation] ⏻ of the receiver.

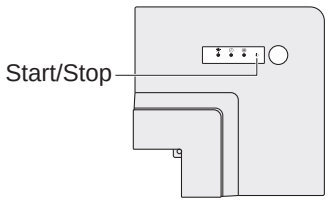
- The OPERATION lamp is lit.
- Auto operation starts. If Auto operation is not possible, the unit starts cooling if the room temperature at the time is 24 °C or higher; otherwise, the unit starts heating.
- The operation stops if you press [Emergency Operation] ⏻ again.

Note

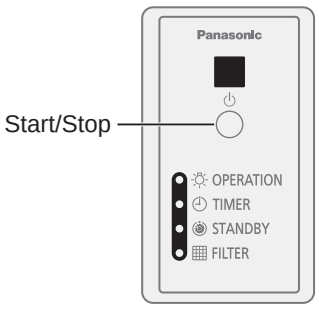
- If non-cooling/heating free type is being used, it will beep twice and the operating lamp will light up on the display; if the timer and standby lamps blink alternately, a conflict between the heating and cooling exists, so the unit cannot operate in the desired mode. (On models that do not have an Auto function, even if Auto is selected, it works in the same way.)
- When the local operation is disabled by a central control device or similar cause, and if the Start/Stop ⏻, Fan speed, Flap, Temperature setting ▲ / ▼, Mode select or Energy saving button is pressed, the unit will beep 5 times and the change will not be made.

CZ-RWRU3, CZ-RWRU3W, CZ-RWRC3, Indoor Unit : Wall Mounted Type, CZ-RWRT3, CZ-RWRY3

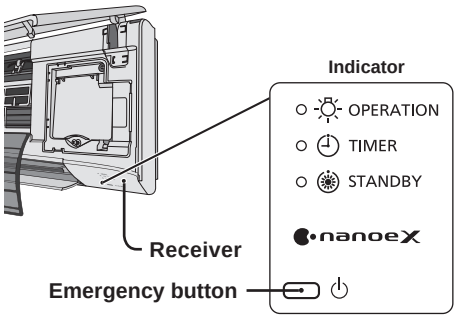
CZ-RWRU3
CZ-RWRU3W



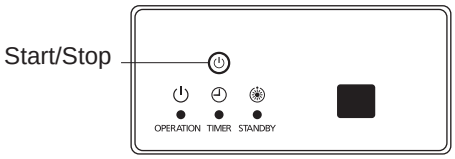
CZ-RWRC3



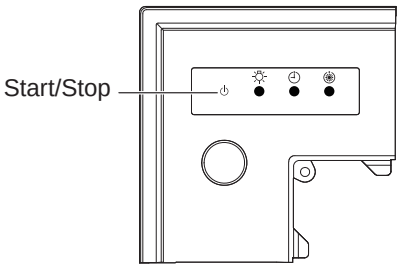
Indoor Unit : Wall Mounted Type



CZ-RWRT3



CZ-RWRY3



8

8-2-1-11. Miscellaneous Settings

A variety of changes can be made to settings, depending on the indoor unit being used.

Operation mode indicator, time display (24 hour, AM/PM), heating maximum temperature

- These settings are saved in nonvolatile memory in the remote controller, so even when its batteries are changed, the settings do not have to be made again.
- First check the display of the remote controller when the unit is stopped and then make any desired settings

How to Operate

- While holding down the buttons below, the remote controller's display changes every time [∧] is pressed.
- Whatever is being displayed when you release [∧] is set.

Setting Item	Operation Button	Setting Content	Remote Controller Display
Remote controller operation mode display setting when [▭] is pressed	Press [∧] while pressing [▭]	Heat Pump (with Auto)	Ⓐ☀💧❄🌀
		Heat Pump (without Auto)	☀💧❄🌀
		Dedicated air conditioner	💧❄🌀
Clock display setting	Press [∧] while pressing [🕘]	24-hour	23:59
		AM/PM	PM 11:59
Max possible temperature setting in the Heat mode	Press [∧] while pressing [▲🌡]	Maximum heating temperature range is 26 °C – 30 °C	26→27→28 ↓ 30←29 ←

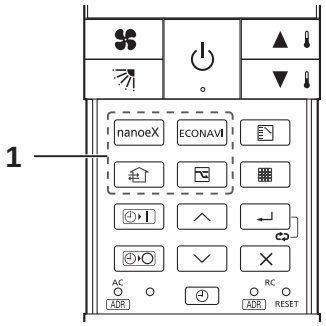
8-2-1-12. Button Control

You can enable or disable the following buttons for some indoor units.

nanoe™ X, ECONAVI, Ventilation, Energy saving

1. Press the button for desired setting for 4 seconds or longer.

- You can toggle between enable and disable each time you press the button for 4 seconds or longer.
- " ⃠ " is displayed when you press a disabled button, and the function cannot be used.

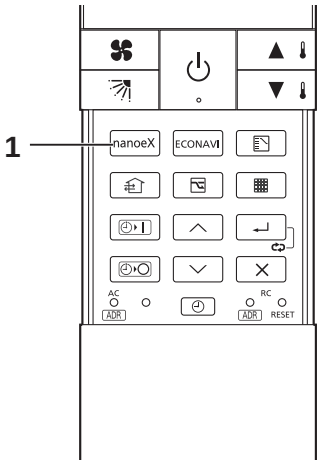


Buttons	Setting content
[nanoeX]	Enabling or disabling the button for nanoe™ X.
[ECONAVI]	Enabling or disabling the button for ECONAVI.
[🏠]	Enabling or disabling the button for ventilation.
[▭]	Enabling or disabling the button for energy saving.

8-2-1-13. nanoe™ X Setting

1. Press [nanoeX] during operation.

- You can toggle between ON and OFF each time you press [nanoeX].
- " [nanoeX] " is displayed when this setting is ON.
- When the nanoe™ X setting is ON, "nanoe" (atomised water particle) is released from the indoor unit while in operation (Cool, Dry, Heat, Fan, Auto).
- If the receiver emits 1 short beep followed by 1 long beep after pressing [nanoeX], the indoor unit does not support this function. See "8-2-1-12. Button Control" for how to enable or disable the button.
- " ⃠ " is displayed if the function is not available



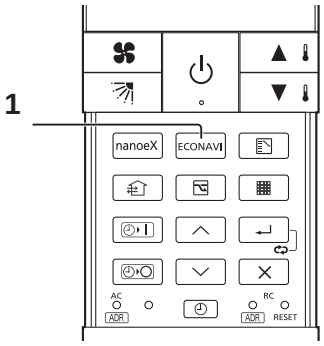
8-2-1-14. ECONAVI Setting

(ECONAVI can be set using the separately sold ECONAVI panel or by connecting the holder on the wall.)

1. Press [ECONAVI] during operation.

- You can toggle between ON and OFF each time you press [ECONAVI].
- " ECONAVI " is displayed when this setting is ON. *
- The ECONAVI sensor detects human activity and conserves energy based on the activity level.
- Even when target temperature is changed through the ECONAVI function, the set temperature shown in the remote controller does not change.
- When operating more than 1 indoor unit, the energy-saving effect may be reduced depending on the room condition.
- If the receiver emits 1 short beep followed by 1 long beep after pressing [ECONAVI], the indoor unit does not support this function. See "8-2-1-12. Button Control" for how to enable or disable the button.
- " ⃠ " is displayed if the function is not available.

* " ECONAVI " is not displayed in Fan mode.

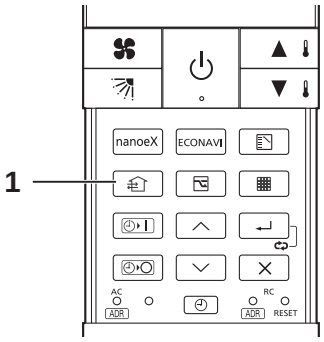


8-2-1-15. Ventilation Setting

(When connected to an aftermarket fan) [⌂] button is disabled as the factory setting. Enable the [⌂] button if you have connected the ventilation fan. (See "8-2-1-12. Button Control")

1. Press [⌂].

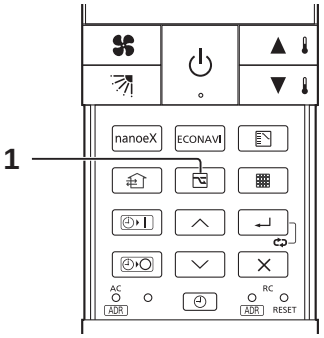
- You can toggle between ON and OFF each time you press [⌂].
- " ⌂ " appears on the display of the remote controller when the fan is operating.
- When the air conditioner is started or stopped, the fan starts or stops at the same time.
- " ⃠ " is displayed if the function is not available.



8-2-1-16. Energy Saving Setting

1. Press [▭] during operation.

- You can toggle between ON and OFF each time you press [▭].
- " ▭ " is displayed when this setting is ON.
- The energy saving operation restricts the maximum current value, resulting in decreased cooling/heating performance. (If the current of outdoor units does not reach the peak due to low load operation, the current value is not restricted.)
- If the receiver emits 1 short beep followed by 1 long beep after pressing [▭], the indoor unit does not support this function. See "8-2-1-12. Button Control" for how to enable or disable the button.
- " ⃠ " is displayed if the function is not available.

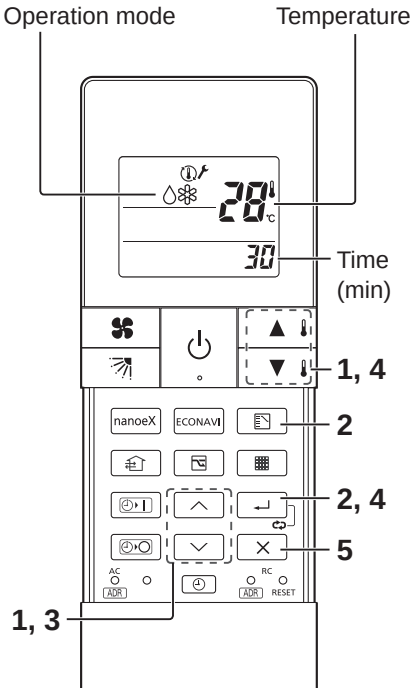


8

8-2-1-17. Temperature Automatic Return

You can restore the changed temperature to the originally set temperature automatically after a specified time elapses.

- Set the time and temperature for each operation mode.



1. **Press ▲ and ▽ at the same time for 4 seconds or longer.**
   - "🔧" starts blinking and the setting screen is displayed.
2. **Press ⎘ to select the operation mode, then press ↵.**
   - Every time you press ⎘ to switch between "Dry 💧 / Cool ❄ → Heat ☀ → Auto Ⓐ ", the buzzer sounds from the corresponding receiver.
   - When not set: 1 short beep
   - When already set: 2 short beeps
3. **Press △ / ▽ to set the time to return to the set temperature.**
   - Setting range: 10 to 240 min (by the 10 min)
4. **Press ▲ / ▼ to set the temperature, then press ↵.**

	MAX (°C)	MIN (°C)
Auto Ⓐ	27	17
Heat ☀	30	16
Dry 💧 / Cool ❄	30	18

   - The temperature range that can be set varies depending on the model.
5. **Press ×.**
   - You can return to Step 2 to continue setting if you press ↵ instead of ×.

Changing the setting

Perform Step 1 to 5 noted above as you did when setting.

Cancelling the setting

1. **Press ▲ and ▽ at the same time for 4 seconds or longer.**
2. **Press ⎘ to select the operation mode, then press × for 4 seconds or longer.**
   - The receiver emits 1 short beep.
   - Press × for 10 seconds or longer to cancel settings for all operation modes.

Note
- Press × to stop operation in the middle.

8

8-2-1-18. Troubleshooting

Before requesting service, please check the followings.

Problem	Cause	Solution
The unit doesn't work even when ⏻ is pressed on the remote controller.	The power to the indoor unit is not ON.	Make sure the power to the indoor unit is ON.
	Are the remote controller's batteries dead?	Change the batteries.
	Is there a mismatch between the display lamp and cooling/heating or is it set to something other than Auto? (The operating lamp stays lit, while the timer lamp and the standby lamp blink alternately.)	Change the operating mode.
	Do the addresses match one another?	Check the addresses of the receiver and the remote controller. (See "Checking Addresses" on page 8-2-1-8)
The air conditioner starts and stops on its own.	Has the timer been set to repeat?	Check the timer settings. (See "Checking the timer setting" on page 8-2-1-5)
Although the unit is for air conditioning only, either Auto or Heat is indicated in the display.		Make settings to the remote controller's operation mode display. (See "8-2-1-11. Miscellaneous Settings")
After the batteries are put in the remote controller, even when it is operated, the display does not change.		Press the RC reset button on the remote controller. (See Step 3. of "8-2-1-2. Installing Batteries")
The timer cannot be set.		Make the settings when the remote controller is in Operation Display. (See "8-2-1-5. Timer Operation")

If the problem persists even after you check the foregoing items, stop the unit, disconnect the power to the indoor unit and contact the dealer where the product was purchased with the model number and problem you are having. As it is dangerous, under no circumstances should you undertake repairs yourself.
Further, when the receiver's lamps are blinking; please contact your retailer with that information.

Specifications

CZ-RWS3

Model No.	CZ-RWS3
Dimensions	(H) 165 mm × (W) 59 mm × (D) 22 mm
Weight	100 g (Batteries and remote control holder are not included)
Temperature / Humidity range	0 °C to 40 °C / 20 % to 80 % (No condensation) *Indoor use only
Power Source	Two LR03 size batteries

CZ-RWRU3, CZ-RWRU3W

Model No.	CZ-RWRU3, CZ-RWRU3W
Dimensions	(H) 29.7 mm × (W) 211.8 mm × (D) 211.8 mm
Weight	160 g
Temperature / Humidity range	0 ˚C to 40 ˚C / 20% to 80% (No condensation) *Indoor use only.
Power Source	DC16 V (supplied from indoor unit)

CZ-RWRT3

Model No.	CZ-RWRT3
Dimensions	(H) 65 mm × (W) 141 mm × (D) 22.5 mm
Weight	85 g
Temperature / Humidity range	0 °C to 40 °C / 20 % to 80 % (No condensation) *Indoor use only.
Power Source	DC16 V (supplied from indoor unit)

CZ-RWRC3

Model No.	CZ-RWRC3
Dimensions	(H) 120 mm × (W) 70 mm × (D) 20 mm
Weight	75 g
Temperature / Humidity range	0 °C to 40 °C / 20 % to 80 % (No condensation) *Indoor use only.
Power Source	DC16 V (supplied from indoor unit)

CZ-RWRY3

Model No.	CZ-RWRY3
Dimensions	(H) 125 mm × (W) 125 mm × (D) 29 mm
Weight	100 g
Temperature / Humidity range	0 ˚C to 40 ˚C / 20% to 80% (No condensation) *Indoor use only.
Power Source	DC16 V (supplied from indoor unit)

8-2-2. Installation Instructions

Read before installation

This controller must be installed by the sales dealer or installer. These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales / service outlet or your certified dealer for additional instructions.

Safety Precautions

We assume no responsibility for accidents or damages resulting from methods other than those described in the installation instructions or methods without using specified parts. Malfunctions that occurred due to the unauthorised installation methods are not covered by the product warranty.

- Read the installation instructions supplied with indoor units as well.
- After the installation is complete, perform test operation to confirm that no abnormality is present.
- When relocating or repairing this controller, provide the Installation Instructions to the servicing personnel.
- Do not clean inside the controller by users. Engage authorised dealer or specialist for cleaning.

⚠WARNING This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

⚠CAUTION This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

⚠WARNING

- Turn off the circuit breaker of the units before installation.
- Select an installation location which is rigid and strong enough to support or hold the controller, and select a location for easy maintenance.
- This controller must not be modified or disassembled under any circumstances. Modified or disassembled controller may cause fire, electric shock or injury.

⚠CAUTION

- Do not allow infants and small children to prevent them from accidentally swallowing the batteries.
- Do not use the controller at the following locations.
  - Location where condensation occurs
  - Location where flammable gases, etc. may leak
  - Location where corrosive gases, etc. may leak
  - Location with lots of water or oil droplets (including machine oil)
  - Location where there is a machine producing electromagnetic radiation
  - Location where droplets of organic solvents spread
  - Location where acidic or alkaline solutions or special sprays are frequently used
- Do not wash with water.
- Do not operate with wet hands.
- Do not drop or throw. (It may cause malfunction.)
- Do not insert the battery the wrong terminals (+ and -). (It may cause electrolyte leakage and may cause a fire.)

NOTICE The English text is the original instructions. Other languages are translation of the original instructions.

Supplied accessories

< >: Number of pieces

- Remote Control Holder <1>
- Screw M4×15.5 <2>
- LR03 Size Battery (for test) <2>
- Operating Instructions <1>
- Installation Instructions <1>
- Instructions Disc <1>

Installation Precautions

- The controller uses a very weak infrared light for its signal, which can result in the signal not being received because of the following influences, so take care in where the indoor unit is installed.
  - Inverter or rapid-start type fluorescent lights (Models without glow lamps)
  - Plasma display or LCD televisions
  - Direct sunlight or other sources of bright light
- Install in a location that does not interfere the operation
  - You cannot operate if the distance between the remote controller and the receiver is greater than that signals can travel.
  - Make sure nothing is between the remote controller and the receiver that could block the signal.
  - Confirm that the normal operation is possible at the location to install.
- Avoid the following locations for installation.
  - Under direct sunlight
  - Location near heat source
  - Location where the controller will be splashed with water or affected by dampness or humidity
  - Uneven surface
  - Location that is subject to excessive vibration or physical impacts. (Fixing screws may come off, and the controller may drop.)
  - Location with large amount of oil smoke or steam (such as kitchen or machine factory)
- Install the controller vertically to the floor.
- Install the controller at a location with suitable temperature and humidity for using.
- Do not install controller at the locations with the equipment (medical equipment, etc.) which generates the high-frequency emissions. (It may interfere with the equipment and may cause accidents due to malfunction.)
- Install at least 1 m away from TV, radio, PC, etc. (To prevent fuzzy images or noise)
- If a remote controller is to be operated from a remote control holder that is hung on a wall, turn on the lights in the room as well as any electrical appliances and then check to make sure the air conditioner works with the remote controller in the location where it will be installed. If it works, continue with installation.

Before Starting

Install this controller see “8-2-1. Operating Instructions”.
(1) Insert the batteries. (Installing Batteries)
(2) Set the current time. (Setting the Current Time)
(3) Install the remote control holder. (Using the Remote Controller)
(4) Perform the pairing address setting, if required. (Paring Addresses)

When using the Wall Mounted Type indoor unit

Note

Also see “8-3-2. When Using Wireless Remote Controller Instead of Wired Remote Controller”.

- When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].
- When only using the infrared remote controller, it is necessary to set the selector switch on the indoor unit circuit board (SW502) from “OFF” to “ON”. When group-controlling the multiple indoor units, set “OFF” to “ON” on only one unit.

Miscellaneous Settings

The functions of the wireless (infrared) remote controller can be set on site.

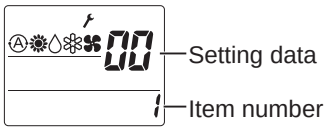
Note

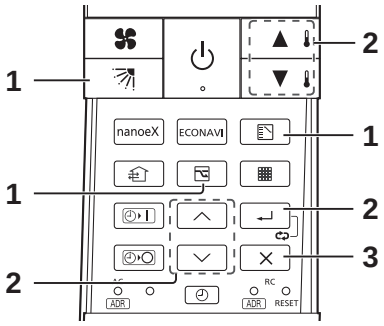
Only service personnel should make the settings because the operation of the air conditioner may be affected, depending on the settings made.

- These settings are saved in nonvolatile memory in the remote controller, so even when its batteries are changed, the settings do not have to be made again.
- Furthermore, making changes to these settings may cause actual operation to deviate from what is printed in the Operating Instructions, so be sure to fully explain this to the customer.
- Do not change any settings other than those items in table below.

1. Press, [ ] , [ ] and [ ] at the same time for 4 seconds or longer when the unit is stopped (displaying the current time only).

- " " starts blinking and the setting screen is displayed.





2. Press [▲] / [▼] to select item number, press [^] / [v] to select setting data, and press [↵] .

3. Press [×] .

Item Number	Setting item	Setting data		Factory setting	Check
1	Operation Mode*1	00: Ⓐ / ❄ / ◊ / ❄ / ✿ 01: ❄ / ◊ / ❄ / ✿ 02: ◊ / ❄ / ✿	03: ❄ / ✿ 04: Ⓐ / ❄ / ❄ / ✿ 05: ❄ / ❄ / ✿	00: Ⓐ/❄/◊/❄/✿	
2	Flap Display	00: 5 levels (Cool in 5 levels) + Swing + Stop 01: 5 levels (Cool in 3 levels) + Swing + Stop 02: 5 levels (Cool in 3 levels) + Swing	03: Swing 04: No switchable function	00: 5 levels (Cool in 5 levels) + Swing + Stop	
3	Select Fan Speed	00: 5 levels (1 to 5, Auto) 01: 3 levels (Low (1), Medium (3), High (5), Auto) 02: 3 levels (Low (1), Medium (3), High (5))	03: Low (1), Medium (3) 04: No switchable function	00: Speed 5 (1 to 5, Auto)	
4	Temperature Display	00: °C	01: °F	00: °C	
5	Clock Display	00: 24-hour	01: AM/PM	00: 24-hour	
6	Ventilation Fan Setting*2	00: Off	01: On	00: Off	
7	Cool Temp Max	5 – 35°C		30	
8	Cool Temp Min	5 – 35°C		18	
9	Heat Temp Max	5 – 35°C		30	
10	Heat Temp Min	5 – 35°C		16	
11	Dry Temp Max	5 – 35°C		30	
12	Dry Temp Min	5 – 35°C		18	
13	Auto Temp Max	5 – 35°C		27	
14	Auto Temp Min	5 – 35°C		17	
18	Energy Saving Setting*2	00: Off	01: On	01: On	
19	ECONAVI Setting*2	00: Off	01: On	01: On	
20	nanoe™ X Setting*2	00: Off	01: On	01: On	

*1 Set to [02: ◊ / ❄ / ✿] or [03: ❄ / ✿] if you are using the unit only for cooling.

*2 Press the function setting button for 4 seconds or longer while current time is displayed to switch the function On/Off.

Note

Make sure to fill the setting status in the check column after making changes to these settings.

Auto Address

Set the Auto Address for each O/D unit no. (outdoor unit number) Select the O/D unit no. for Auto Address.

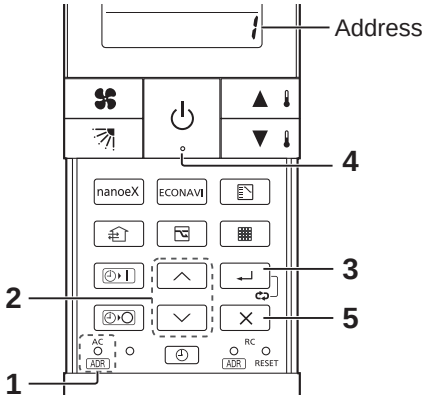
1. Press [AC ADR] for 4 seconds or longer.
- " 🔧 " starts blinking and the setting screen is displayed.

2. Press [∧] [∨] to select the unit number (O/D unit no.) from 1 to 30.

3. Press [↵] to set the Auto Address.

4. Press [⏻] to check the Auto Address status.

(See the following table for the Auto Address status.)
- Proceed to step 5 when the status is "Completion" or "Error" .
- If "Running" keeps for 10 minutes or longer, check the unit number.



Auto Address Status	Buzzer of the receiver	Indication lamp on the receiver		
		OPERATION	TIMER	STANDBY
Running	2 times	◎ → ◎ → ◎		
Completion	1 time	-	-	-
Error	5 times	●	●	◎

● : OFF, ○ : ON (Illuminated), ◎ Blinking (0.5 seconds interval)

5. Press [×] for 4 seconds or longer to exit the Auto Address setting.
- Auto Address setting is canceled while running or error occurring. Set the Auto Address again after resolve the error cause if an error occurs.

Attention
- Set Auto address after all units are turned on and 90 seconds or more have passed.
- Operate the units after Auto address is set and 90 seconds or more have passed.

8-3. Setting for the Receiver

8-3-1. Infrared Receiver

8-3-1-1. Common to Infrared Receiver

CZ-RWRU3, CZ-RWRU3W, CZ-RWRC3, CZ-RWRT3, CZ-RWRY3

Read before installation

This receiver must be installed by the sales dealer or installer. These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

Safety Precautions

We assume no responsibility for accidents or damages resulting from methods other than those described in the installation instructions or methods without using specified parts. Malfunctions that occurred due to the unauthorised installation methods are not covered by the product warranty.

- Read the installation instructions supplied with indoor units as well.
- After the installation is complete, perform test operation to confirm that no abnormality is present.
- When relocating or repairing this receiver, provide the Installation Instructions to the servicing personnel.
- Do not clean inside the receiver by users. Engage authorised dealer or specialist for cleaning.

⚠ WARNING This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

⚠ CAUTION This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

⚠ WARNING

- Turn off the circuit breaker of the units before installation.
- This receiver shall be installed in accordance with National Wiring Regulations.
- Connect and fix the specified cables for wiring securely.
- Do not allow the connection to be exposed to the external force of the cables.
- Select an installation location which is rigid and strong enough to support or hold the receiver, and select a location for easy maintenance.
- This receiver must not be modified or disassembled under any circumstances.
  Modified or disassembled receiver may cause fire, electric shock or injury.

⚠ CAUTION

- Do not use the receiver at the following locations.
  - Location where flammable gases, etc. may leak
  - Location where corrosive gases, etc. may leak
  - Location with lots of water or oil droplets (including machine oil)
  - Location where droplets of organic solvents spread
  - Location where acidic or alkaline solutions or special sprays are frequently used
- Do not wash with water.
- Do not operate with wet hands.

NOTICE The English text is the original instructions. Other languages are translation of the original instructions.

Installation Precautions

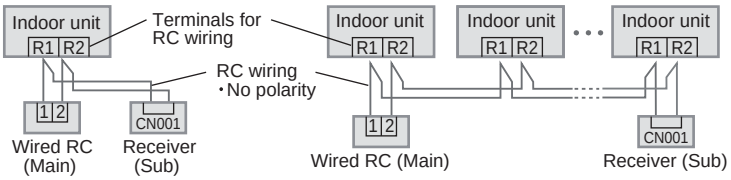
- The receiver uses a very weak infrared light for its signal, which can result in the signal not being received because of the following influences, so take care in where the indoor unit is installed.
  - Inverter or rapid-start type fluorescent lights (Models without glow lamps)
  - Plasma display or LCD televisions
  - Direct sunlight or other sources of bright light
- Do not bundle together with the power source wiring or store in the same metal tube. Operation error may occur.
- Be careful not to connect cables to other terminals of indoor units (e.g.power source wiring terminal). Malfunction may occur.
- Avoid the following locations for installation.
  - Location where condensation occurs
  - Location where voltage fluctuation frequently occurs
  - Location where there is a machine producing electromagnetic radiation

Wiring

Installation when setting Main/Sub for the remote controller and the receiver
It is possible to operate one or more indoor units using two remote controllers.
After installation, set one to [Main] and the other to [Sub].
When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].

<Installation example>

■Using 1 indoor unit **■Using more than 1 indoor unit**



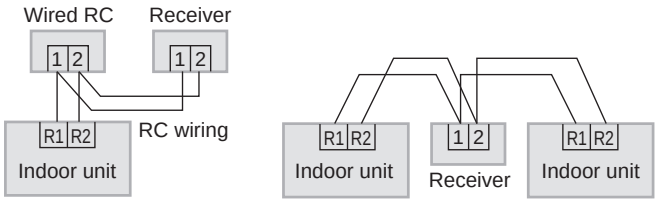
Note

- The receiver can be connected to any indoor unit for operation.
- Wiring connected via remote controllers is prohibited.
- Also see "1-11-1. Installation Instructions of Indoor Unit" or refer to the “Installation Instructions” supplied with the wired remote controller when performing remote control with the main and sub remote controllers or group-controlling.

Attention

- Multiple wireless (infrared) remote controllers cannot be used simultaneously for a single indoor unit.
- Be careful not to connect cables to other terminals of indoor units (e.g. power source wiring terminal). Malfunction may occur.
- Do not bundle together with the power source wiring or store in the same metal tube. Operation error may occur.
- If noise is induced to the unit power supply, attach a noise filter.

* Wiring shown below is prohibited.

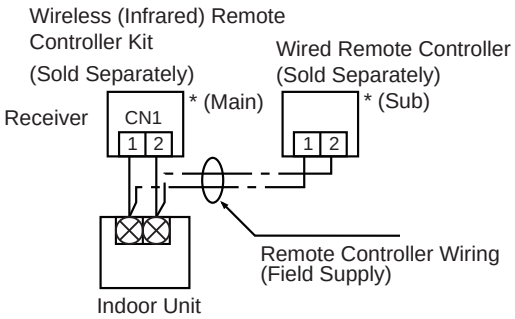


Note

The remote controller and the receiver can be connected to any indoor unit for operation.

When 1 indoor unit is operated by 2 remote controllers:

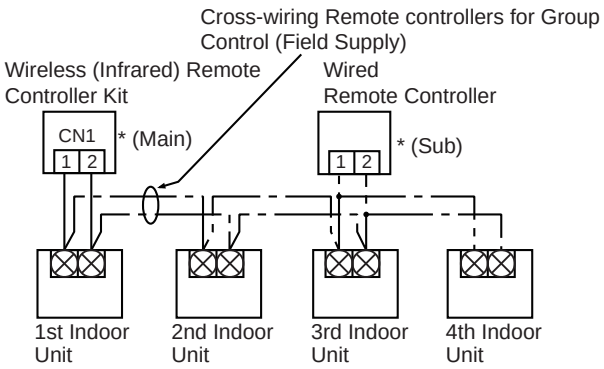
* Either of the remote controllers can be set to main/-sub.



- Use wiring of 0.5 mm² to 2 mm² for field supply.
- Use a total wire length of no more than 400 m.

If a group of units are to be controlled by 2 remote controllers:

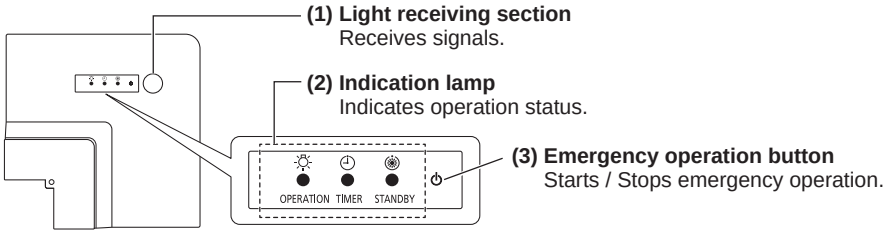
* Main/sub remote controllers will work regardless of which indoor unit they are installed.



- Use wiring of 0.5 mm² to 2 mm² for field supply.
- Make the total wire length when cross-wiring a group no more than 200 m.

8-3-1-2. CZ-RWRU3, CZ-RWRU3W

Part Names

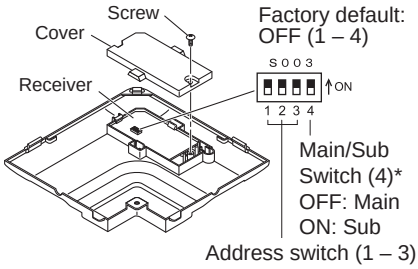


1. Accessories

Supplied accessories		
Clamper (1)	Operating Instructions (1)	Installation Instructions (1)

2. Setting

Before installing the receiver, check the settings of the receiver address switches.
Remove the cover from the receiver when performing the settings.



* When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].

Address Setting

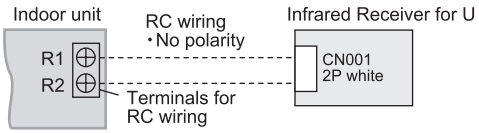
- When more than 1 receiver is installed in the same room, setting addresses prevents interference.
- For how to change addresses of infrared remote controller, see the operating instructions of infrared remote controller.

Infrared remote controller address display	Address **ALL**	Address **1**	Address **2**	Address **3**	Address **4**	Address **5**	Address **6**	ON/OFF States
Infrared receiver address switch positions	Receiving is possible at all address positions.	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	OFF ON

3. Wiring

Connect the wires from the receiver to the terminals for RC wiring on the indoor unit.

Wiring Diagram



NOTE

- The receiver can be connected to any indoor unit for operation.
- Multiple infrared remote controllers cannot be used simultaneously for a single indoor unit.
- Wiring connected via remote controllers is prohibited.
- Also see “1-11-1. Installation Instructions of Indoor Unit” or refer to the “Installation Instructions” supplied with the wired remote controller when performing remote control with the main and sub remote controllers or group-controlling.

4. Mounting

See “2. Setting” before mounting.

- The receiver can be installed only on the corner shown in Fig. 8-3-1-2-1. Consider the direction where the panel is attached to the indoor unit.

1 Remove the air inlet grille

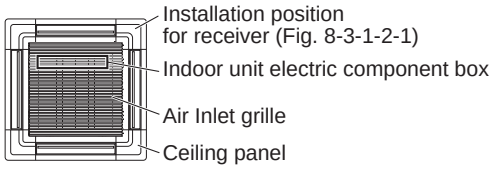
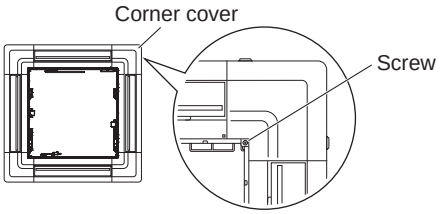
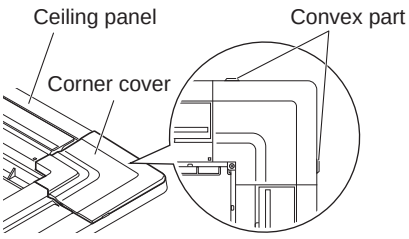


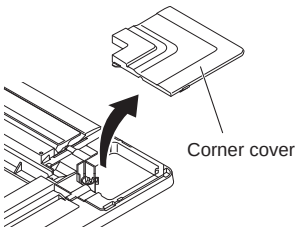
Fig. 8-3-1-2-1

2 Remove the screw fixing the corner cover.

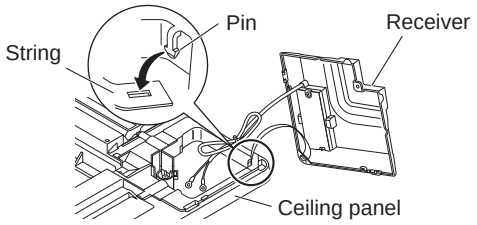


3 Place a hand on both the right and left convex parts of the corner cover to remove it.



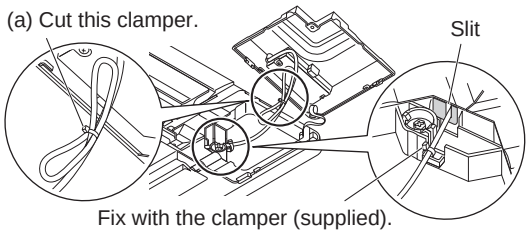


4 Hang the string of the receiver on the pin of the ceiling panel.

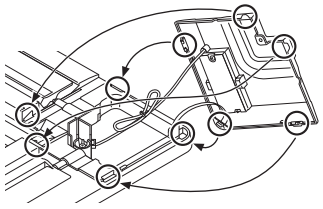


5 Pass the wiring from the receiver section into the slit.
For more wiring information, see the section “Wiring”.

6 Fix the wiring with the clamper (supplied) while leaving enough length of wiring to remove the receiver.
- When attaching the filter chamber, cut the clamper (a), and attach the receiver.



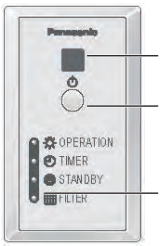
7 Fit the receiver to the ceiling panel so the 5 claws are properly set, and fix it with the removed screw.
- Make sure the wire is not caught.
- Refer to the installation instructions supplied with the panel.



8

8-3-1-3. CZ-RWRC3

Part Names

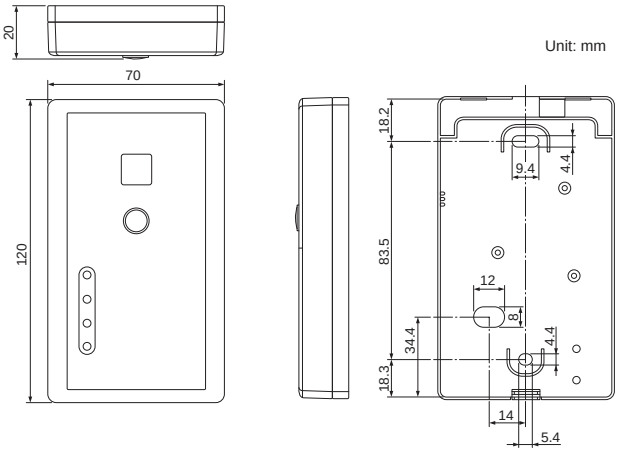


(1) Light receiving section
Receives signals.
(2) Emergency operation button
Starts / Stops emergency operation.

(3) Indication lamp
Indicates operation status.

Dimensions

Unit: mm



Installation Precautions

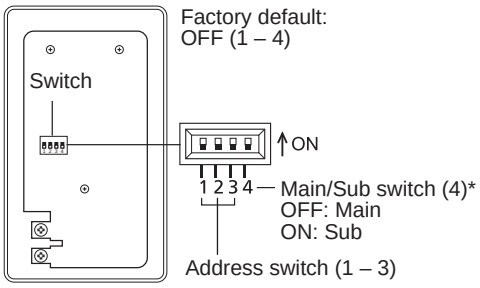
- Install at the height of 1 to 1.5 m from the floor.
- Install vertically against the floor.
- When installing more than 1 remote controller next to each other, keep distance of 5 mm on the right and left and 50 mm on top and bottom.
- Install the receiver at a location with suitable temperature and humidity for using.

1. Accessories

Supplied accessories		
screw M4 × 15.5 (2)	Clamper (1)	Installation Instructions (1)

2. Setting

Remove the cover from the receiver when performing the settings.



* When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].

Address Setting

- When more than 1 receiver is installed in the same room, setting addresses prevents interference.
- For how to change addresses of infrared remote controller, see “8-2-1. Operating Instructions”.

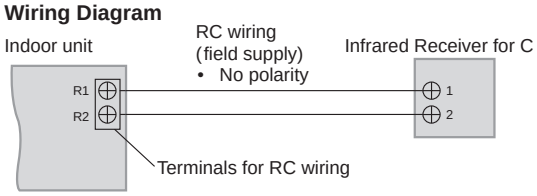
Infrared remote controller address display	Address **ALL**	Address **1**	Address **2**	Address **3**	Address **4**	Address **5**	Address **6**	ON/OFF States
Infrared receiver address switch positions	Receiving is possible at all address positions.	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	OFF ON

8

3. Wiring

Connect the wires from the receiver to the terminals for RC wiring on the indoor unit.

Wiring Diagram



- Type of wiring: Use cables of 0.5 to 1.25 mm².
- Total wire length: 400 m or less (The wire length between indoor units should be 200 m or less.)
- Number of connectable units Remote controller and receiver: Max. 2, Indoor unit: Max. 8

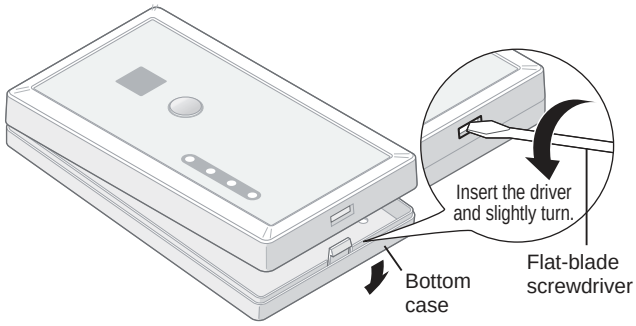
Note

- The receiver can be connected to any indoor unit for operation.
- Wiring connected via remote controllers is prohibited.
- Also see “1-11-1. Installation Instructions of Indoor Unit” or refer to the “Installation Instructions” supplied with the wired remote controller when performing remote control with the main and sub remote controllers or group-controlling.
- Use the field supplied RC wiring with at least 1 mm in thickness of insulation part including the sheath.
  Regulations on wire diameters differ from locally to locally.
  For field wiring rules, please refer to your LOCAL ELECTRICAL CODES before beginning.
  You must ensure that installation complies with relevant rules and regulations.

4. Mounting

See “2. Setting” before mounting.

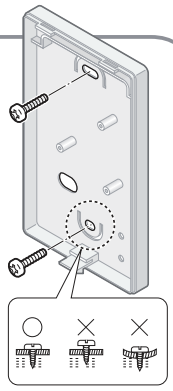
1 Remove the bottom case.



Attention

Mounting the bottom case

- Tighten the screws securely until the screw heads touch the bottom case. (Otherwise, loose screw heads may hit the PCB and cause malfunction when mounting the top case.)
- Do not over-tighten the screws. (The bottom case may be deformed, resulting in fall of the unit.)



Connecting the remote control wiring

- Arrange the wires as shown in the illustration for ❷ in step 2, avoiding unnecessary wires being stored in the case. (Caught wires may destroy the PCB.)
- Avoid wires touching parts on the PCB. (Caught wires may destroy the PCB.)

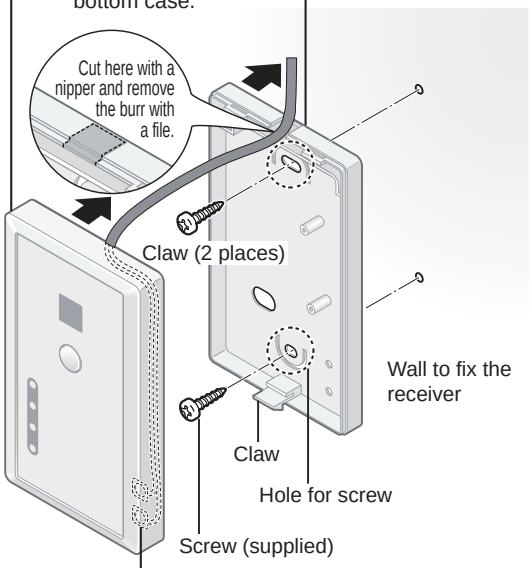
2 Mount to the wall.

Exposed type

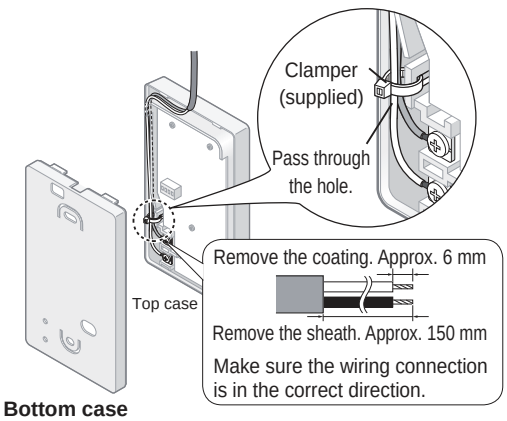
Preparation: Make 2 holes for screws using a driver.

3 **Mount the top case.**
- Align the claws of the top case and then align the claws of the bottom case.

1 **Mount the bottom case to the wall.**



2 **Connect the remote controller wiring.**
- Arrange the wires along the groove of the case.

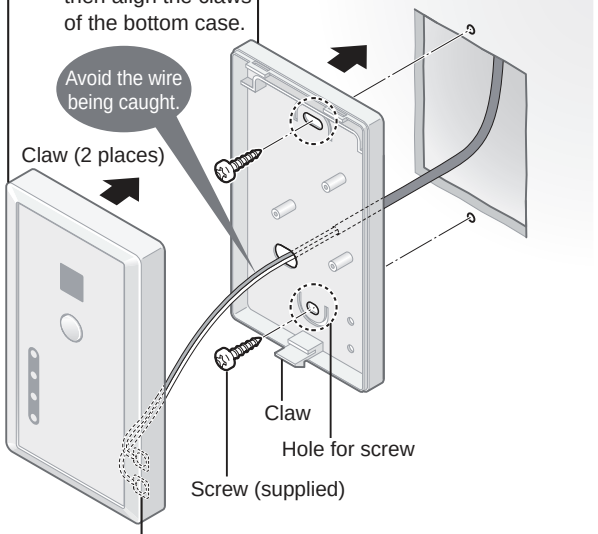


Embedded type

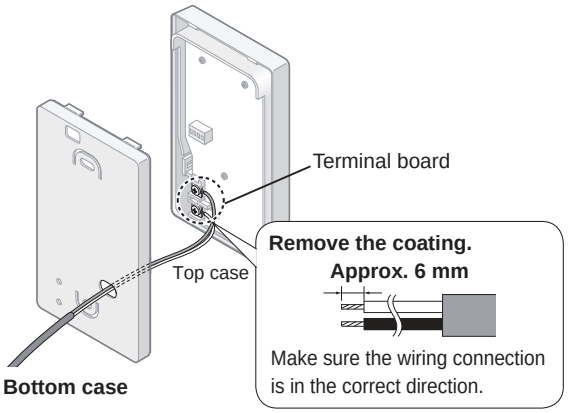
Preparation: Make 2 holes for screws using a driver.

3 **Mount the top case.**
- Align the claws of the top case and then align the claws of the bottom case.

1 **Mount the bottom case to the wall.**
- Pass the wire through the hole in the centre of the bottom case.



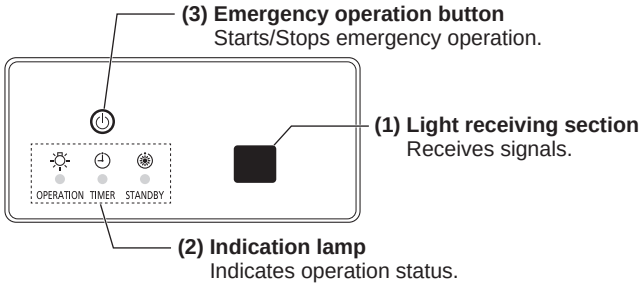
2 **Connect the remote controller wiring.**



8

8-3-1-4. CZ-RWRT3

Part Names

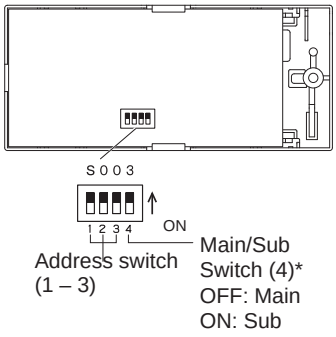


1. Accessories

Supplied accessories	
Clamper **(1)**	**Installation Instructions** **(1)**

2. Setting

Remove the cover from the receiver when performing the settings.



Factory default:
OFF (1 – 4)

* When using the infrared remote controller and the wired remote controller in combination, set the wired remote controller to [Main].

Address Setting

- When more than 1 receiver is installed in the same room, setting addresses prevents interference.
- For how to change addresses of infrared remote controller, see “8-2-1. Operating Instructions”.

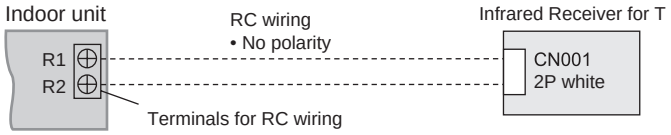
Infrared remote controller address display	Address **ALL**	Address **1**	Address **2**	Address **3**	Address **4**	Address **5**	Address **6**	ON/OFF States
Infrared receiver address switch positions	Receiving is possible at all address positions.	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	OFF ON

8

3. Wiring

Connect the wires from the receiver to the terminals for RC wiring on the indoor unit.

Wiring Diagram



Note

- The receiver can be connected to any indoor unit for operation.
- Multiple infrared remote controllers cannot be used simultaneously for a single indoor unit.
- Wiring connected via remote controllers is prohibited.
- Also refer to the “Installation Instructions” supplied with the indoor unit or wired remote controller when performing remote control with the main and sub remote controllers or group-controlling.

4. Mounting

See “2. Setting” before mounting.

1 Remove the screw, and slide the latch to open the air-intake grille. (Fig. 8-3-1-4-1)

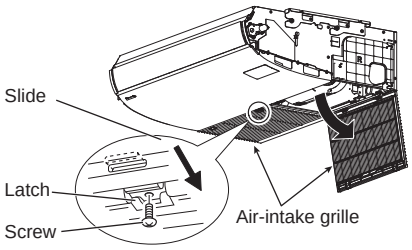


Fig. 8-3-1-4-1

2 Insert a flat-head screwdriver from the side, and remove the cover while pressing down on the two cover tabs. (Fig. 8-3-1-4-2)

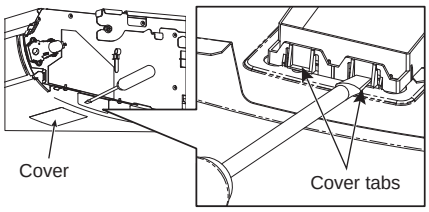


Fig. 8-3-1-4-2

3 Route the remote control wiring through the panel, and mount the receiver into the panel holes. (Fig. 8-3-1-4-3)

4 Route the remote control wiring through the adjustable clamper, and draw in the wire from the remote control wiring inlet to the inside of the indoor unit. (Fig. 8-3-1-4-3)
(See Fig. 8-3-1-4-4 for how to loosen the adjustable clamper.)

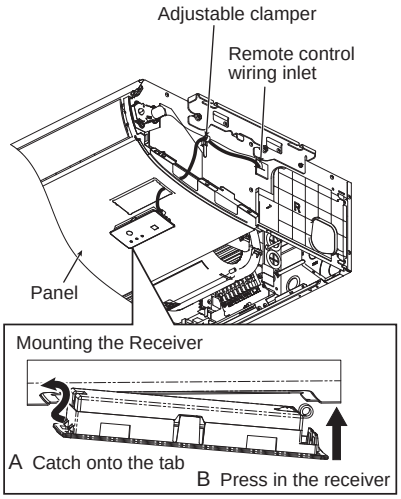


Fig. 8-3-1-4-3

5 Route the remote control wiring through the three saddles, and draw the wire into the electrical box. (Fig. 8-3-1-4-4)
* Draw in the power wire and remote control wiring separately.

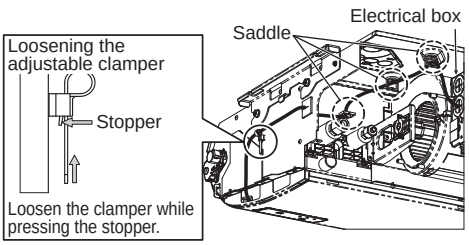


Fig. 8-3-1-4-4

6 Connect the remote control wiring to the terminal board, route through the clamper (supplied) to the holding clamp, and secure the remote control wiring. (Fig. 8-3-1-4-5)

7 Mount the side cover, and close the air-intake grille.
- For more information about wiring and test runs, see “3. Wiring” and “8-3-3. Test Operation”.

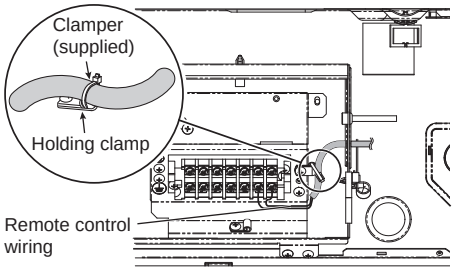


Fig. 8-3-1-4-5

■ Removing and Mounting the Side Cover

Removing the side cover

Remove the side cover mounting screw, and slide the side cover to the front side (direction of arrow in Fig. 8-3-1-4-6) to remove.

Mounting the side cover

Slide in the side cover from the indoor unit front side, mount to the latch tabs, and secure using the side cover mounting screw.

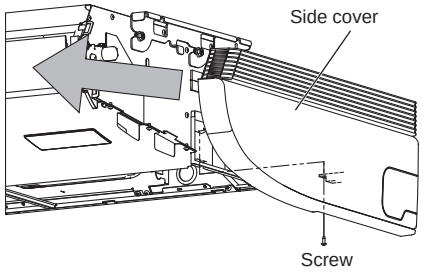
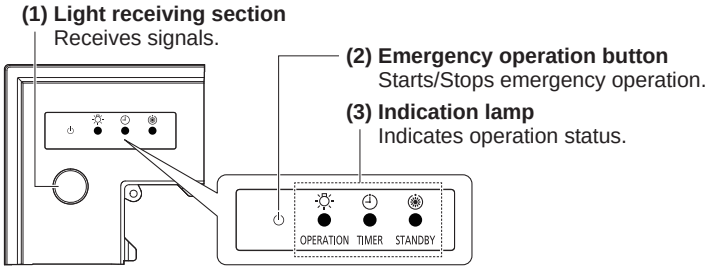


Fig. 8-3-1-4-6

8-3-1-5. CZ-RWRY3

Part Names

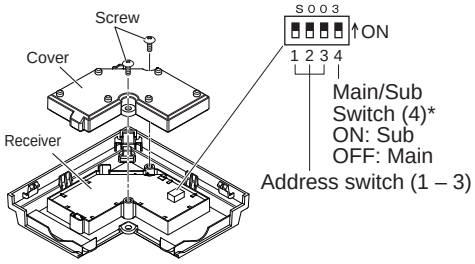


1. Accessories

Supplied accessories
Installation Instructions (1)

2. Setting

Before installing the receiver, check the settings of the receiver address switches.
Remove the cover from the receiver when performing the settings.



* When using the receiver and wired remote controller in combination,set the receiver to [Sub].

Address Setting

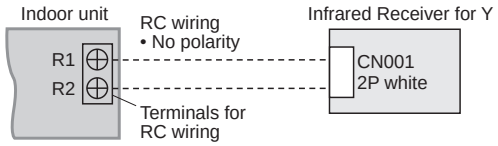
- When more than 1 receiver is installed in the same room, setting addresses prevents interference.
- For how to change addresses of infrared remote controller, see the operating instructions of infrared remote controller.
- Settings are all off at the time of shipping.

Infrared remote controller address display	Address **ALL**	Address **1**	Address **2**	Address **3**	Address **4**	Address **5**	Address **6**	ON/OFF States
Infrared receiver address switch positions	Receiving is possible at all address positions.	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	OFF ON

3. Wiring

Connect the wires from the receiver to the terminals for RC wiring on the indoor unit.

Wiring Diagram



NOTE

- The receiver can be connected to any indoor unit for operation.
- Multiple infrared remote controllers cannot be used simultaneously for a single indoor unit.
- Wiring connected via remote controllers is prohibited.
- Also see “1-11-1. Installation Instructions of Indoor Unit” or refer to the “Installation Instructions” supplied with the wired remote controller when performing remote control with the main and sub remote controllers or group-controlling.

4. Mounting

See “2. Setting” before mounting.

- The receiver can be installed only on the corner shown in Fig. 8-3-1-5-1. Consider the direction where the panel is attached to the indoor unit.

1 Remove the air inlet grille

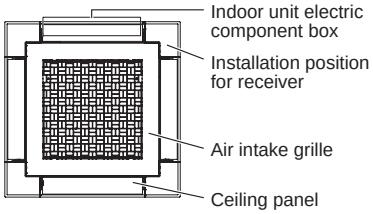
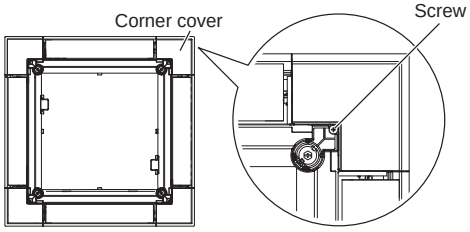
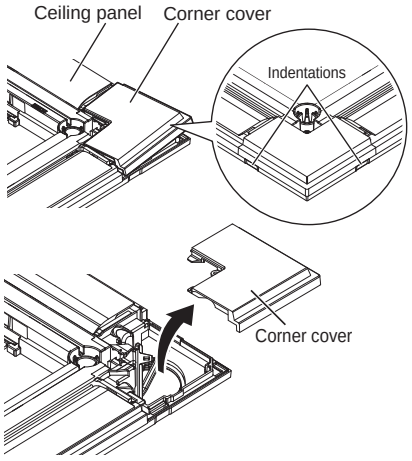


Fig. 8-3-1-5-1

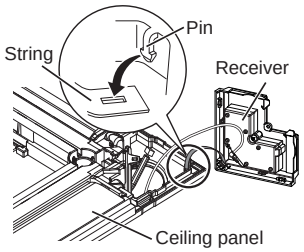
2 Remove the screw fixing the corner cover



3 Put your hands into the indentations on the left and right of the ceiling panel and remove the corner cover.

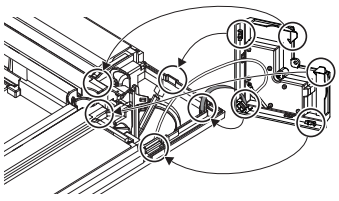


4 Hang the string of the receiver on the pin of the ceiling panel.

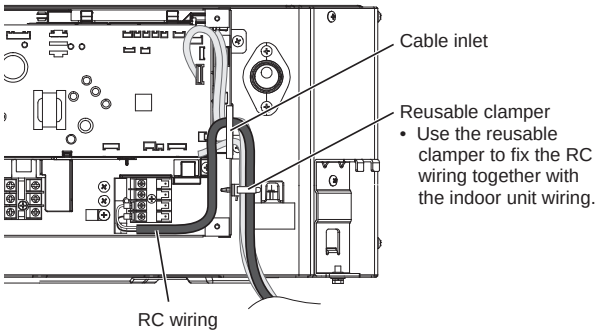


5 Fit the receiver to the ceiling panel so the 5 claws are properly set, and fix it with the removed screw.

- Make sure the wire is not caught.
- Refer to the installation instructions supplied with the panel.



6 Pass the RC wiring through the cable inlet and connect to the terminals for RC wiring.



8

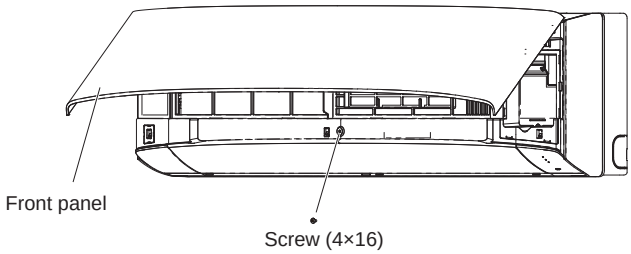
8-3-2. When Using Wireless Remote Controller Instead of Wired Remote Controller

8-3-2-1. Wall Mounted Type

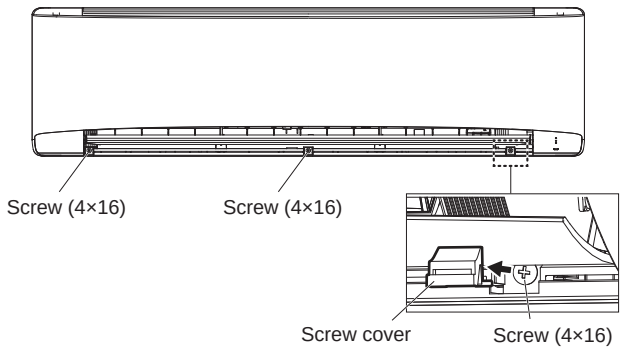
S-3650PK3E, S-6010PK3E

<Optional parts setting and wiring>

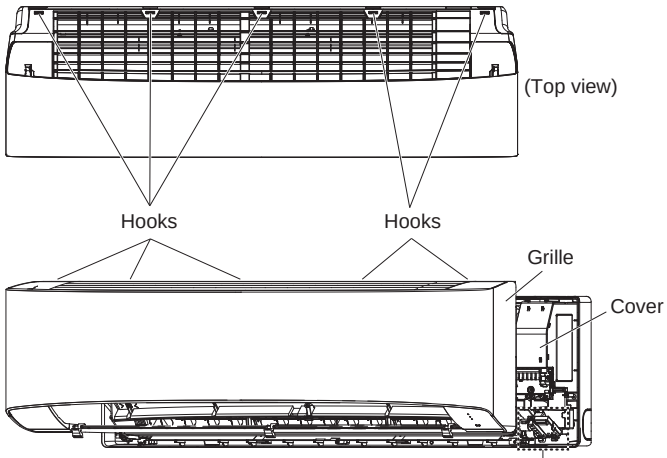
(1) Open the front panel and remove the screw (×1). Then close the panel.



(2) Open the flap and then disengage the screw covers (×3). Then remove the screws (×3).



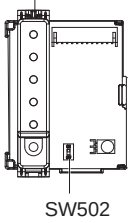
(3) Disengage the hooks holding and lifting both ends of the grille. Remove the cover of electrical component box.

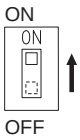


<When Using Wireless Remote Controller Instead of Wired Remote Controller>

When the wireless remote controller is to be used, slide the switch (SW502) to the ON position.

- If this setting is not made, an alarm will occur. (The operation lamp on the display blinks.)





Setting status	
ON:	Wireless: main, Wired: sub
OFF:	Wired: main, Wireless: sub (at shipment)

8

8-3-3. Test Operation

8-3-3-1.Test run using the an infrared receiver.(Except for Wall Mounted Type)

Preparation: Turn on the circuit breaker of units and then turn the power on. After the power is turned on, infrared remote controller operation is ignored for approx. 1 minute because setting is being made. This is not malfunction. (Contents received while setting are disabled.)

1 Press and hold the emergency operation button for 10 seconds.
2 The indication lamps (OPERATION, TIMER, STANDBY) blink during test operation.
3 To finish test operation, press and hold the emergency operation button for 10 seconds.

ATTENTION

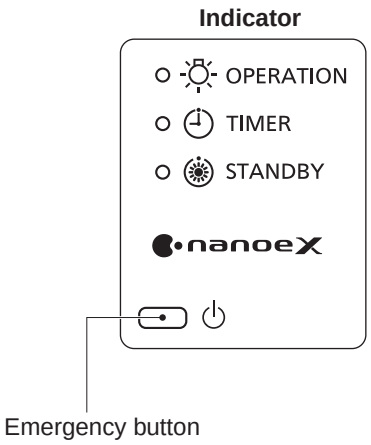
- Do not use this mode for purposes other than the test operation. (To prevent overload of the units)
- Read the installation instructions supplied with the units.
  The test operation can be performed in Heat or Cool mode.
- Temperature cannot be changed.
- The test operation mode is automatically turned off in 60 minutes. (To prevent continuous test operation)
- Outdoor units do not operate for approx. 3 minutes after the power is turned on or operation is stopped.

8-3-3-2. Test run using the indicator of the indoor unit (Wall Mounted Type)

This mode places a heavy load on the machines. Therefore use it only when performing the test run.

(1) Press and hold the Emergency button for 4 seconds or more.
The indication lamps (OPERATION, TIMER, STANDBY)
epeatedly light one after the other for 1 second.
• The wireless remote controller address setting mode is set.

(2) Press and hold the Emergency button for 4 seconds or more again.
The indication lamps (OPERATION, TIMER, STANDBY) blink during test operation.
• The test run can be performed using the HEAT, COOL, or FAN operation mode.
• The temperature cannot be adjusted when in test run mode.
• If correct operation is not possible, some of the display lamps (OPERATION, TIMER, STANDBY) will turn ON or OFF.
(Regarding the alarm contents, see 2-3-1-5. Contents of Remote Controller Switch Alarm Display.)



(3) To stop test operation, press and hold the Emergency button.
• To prevent continuous test run, this mode includes a timer function that cancels the test run after 60 minutes.

ATTENTION

- The outdoor units will not operate for approximately 3 minutes after the power is turned ON and after operation is stopped.

Self-diagnostics table and detected contents

The “Alarm Display” shown in the table below expresses the alarm contents displayed when the wired remote controller is connected. For how to handle the alarms, see Section 2 “Contents of Remote Controller Switch Alarm Display” and Section 5 “Contents of Remote Controller Switch Alarm Display”.

Detected contents	Alarm Display	Indication lamp on the receiver			
		OPERATION	TIMER	STANDBY	Blinking
Communication error in the remote controller circuit	E01–E03, E08–E14, E17, E18	◎	●	●	
Communication error either in the in / outdoor operation line or the sub-bus of the outdoor unit	E04–E07, E15, E16, E19–E31	●	●	◎	
Operation of indoor protection device	P01, P09–P14	●	◎	◎	Alternately
Operation of outdoor protection device	P02–P08, P15–P31	◎	●	◎	Alternately
Error in the indoor thermistor	F01–F03, F10–F11	◎	◎	●	Alternately
Error in the outdoor thermistor	F04–F09, F12–F28	◎	◎	○	Alternately
Error in the indoor EEPROM	F29	◎	◎	●	Simultaneously
Error in the outdoor EEPROM	F30, F31	◎	◎	○	Simultaneously
Error related to the compressor	H01–H31	●	◎	●	
Error in indoor settings	L01–L03, L05–L09	◎	●	◎	Simultaneously
Error in outdoor settings	L04, L10–L31	◎	○	◎	Simultaneously
Error in the gas heat pump air conditioner	A01–A31	●	◎	◎	Simultaneously
Inconsistency in Cooling/Heating (Including an auto-temp setting for a model without auto-temp settings)		○	◎	◎	Alternately
Oil alarm (Same as operation of outdoor protection device)		◎	●	◎	Alternately
Auto addressing in progress (when it is performed with an infrared remote controller)		◎ →	◎ →	◎	Sequentially
Test operation		◎	◎	◎	Simultaneously

●: OFF ○: ON (Illuminated) ◎: Blinking (0.5 seconds interval)