FRESH AIR INTAKE KIT **INSTALLATION MANUAL**

For authorized service personnel only UTZ-VXGA

1. SAFETY PRECAUTIONS

· Be sure to read this Manual thoroughly before installation.

- · The warnings and precautions indicated in this Manual contain important information pertaining to your safety. Be sure to observe them. · Hand this Manual, to the customer. Request the customer to keep them on
- hand for future use, such as for relocating or repairing the unit.

This mark indicates procedures which, if improperly WARNING performed, might lead to the death or serious injury of the user.

Request your dealer or a professional installer to install the indoor unit in accordance with this Installation Manual. An improperly installed unit can cause serious accidents such as water leakage, electric shock, or fire. If the indoor unit is installed in disregard of the instructions in the Installation Manual, it will void the manufacturer's warranty.

Do not turn ON the power until all work has been completed. Turning ON the power before the work is completed can cause serious accidents such as electric shock or fire.

Installation work must be performed in accordance with national wiring standards by authorized personnel only.

This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

2. ABOUT THE UNIT

2.1. Precautions for fresh air intake

- The Fresh Air Intake Kit can be installed onto cassette type air conditioners.
- On installation please also refer to the air conditioner installation manual and decoration panel installation manual
- The volume of ventilated air provided by the Fresh Air Intake Kit may be unable to fulfill ventilation regulations in all countries. On such occasions we ask that this kit be used along with Energy recovery ventilators.
- When intaking outside air please ensure correct air-conditioning design as based on air-conditioning load calculations. As outside air is not being processed an increase in outside air load can affect air conditioning.
- When installing the duct fan, connect the drive relay (field supplied) and operate with the indoor unit Please ensure the intake air volume is below 10% of the product's air

volume HI. When the intaken air volume becomes too large there the operating noise may increase and room temperature detection may be affected.

 Make sure to carry out replacement of the room temperature sensor Room temperature detection may be affected.

- Condensation may form on the product when outside air temperature is low, and the temperature and humidity surrounding the product are high. Don't intake the air of below 0°C (32°F) into the Fresh Air Intake Kit. The upper limit of the product's temperature range should respond to the outdoor temperature range.
- Please ensure the product is installed a distance of at least three times the duct diameter away from exterior wall air inlets, or air exhausts for the prevention of short circuits

2.2. Accessories

For installation purposes, be sure to use the parts supplied by the manufacturer or other prescribed parts. The use of non-prescribed parts can cause serious accidents such as the unit falling, water leakage, electric shock, or fire.

· The following installation parts are furnished. Use them as required. · Keep the Installation Manual in a safe place and do not discard any other accessories until the installation work has been completed.

Name and Shape	Q'ty	Application
Duct Flange		Air joint for connecting duct
\bigcirc	2	
Cover	2	Protective cover to prevent surface condensation
Screw	10	For attaching duct flange
	16	For attaching Cover
Hook plate	4	Plate for attaching panel
Shutter plate	1	Shutter plate for 1-way intake
Insulation ①	2	Affixing the insulation outside of the kit
Insulation ② 450mm (17-3/4 in.) 50mm (2 in.)	1	Affixing the insulation to tube of drain pump for prevent conden- sation
Insulation ③ (33-1/4 in.) 120mm (4-3/4 in.)	3	Affixing the insulation outside of the kit
Insulation④ 90mm (3-1/2 in.) 25mm (1 in.)	4	Affixing the insulation outside of the cover
Cable tie	1	For fixing wire
Extension wire for louver white red	2	Extension wire for louver
Extension wire for receiver kit	1	Extension wire for receiver kit
Wire (External output ①)	1	For connect indoor unit to relay of duct fan
Wire (External output ②)	1	For connect indoor unit to relay of duct fan
Wire (External output 3)	1	For connect indoor unit to relay of duct fan
Bolt	4	For attaching the kit to indoor unit

(PART NO. 9379477024)

3. INSTALLATION WORK

3.1. Selecting an installation location

not install the unit in the following areas: rea with high salt content, such as at the seaside. It will deteriorate netal parts, causing the parts to fall or the unit to leak water. rea filled with mineral oil or containing a large amount of splashed oil r steam, such as a kitchen. It will deteriorate plastic parts, causing the arts to fall or the unit to leak water. area that generates substances that adversely affect the equipment, uch as sulfuric gas, chlorine gas, acid, or alkali. It will cause the opper pipes and brazed joints to corrode, which can cause refrigerant eakage Area that can cause combustible gas to leak, contains suspended arbon fibers or flammable dust, or volatile inflammables such as paint ninner or gasoline. If gas leaks and settles around the unit, it can cause fire.

3.2. Installation dimension location

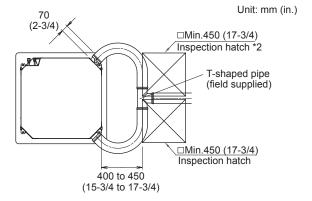
stall the air conditioner in a location which can withstand a load of at ist five times the weight of the main unit and which will not amplify und or vibration. If the installation location is not strong enough, the loor unit may fall and cause injuries

he job is done with the panel frame only, there is a risk that the unit will me loose. Please take care.

A (mm (in.)) Indoor unit 30, 36, 45, 54L 418 (16-1/2) 18, 24 376 (14-13/16) Unit: mm (in.) Indoor Unit duct (field supplied)

V111111 Fresh Air Intake Kit Ø100 (3-15/16)

Inspection hatch



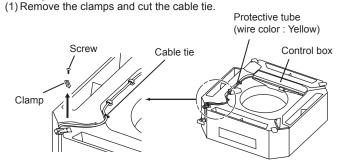
uspend T-shaped pipe-assembly parts securely. A gap is likely to form tween the indoor unit and the Fresh Air Intake Kit due to weight of parts, cluding the T-shaped pipe-assembly.

lease install the Inspection hatch (more than 450 mm × 450 mm 17-3/4 in. × 17-3/4 in.)). Install Inspection hatch on just one side when oth are available

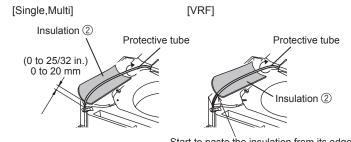
4. INSTALLATION OF THE FRESH AIR INTAKE KIT

4.1. Pre-installation preparations of Indoor unit

• When the number of air outlets is to change, a separately-sold air-outlet sealing material should be fitted to the indoor unit main body prior to installing the Fresh Air Intake Kit.



(2) Affix the Insulation (2) provided around the protective tube of the drain pump as shown in the diagram



Start to paste the insulation from its edge

(3) Return the protective tube to its original position, then secure with cable tie and fix clamps



(3) The existing temperature sensor will not be used so remove it from the sensor holder, and once more install the empty sensor holder (without sensor) in the control box.

• Please attach the duct flange provided with screws. • The Fresh Air Intake Kit can be used with an external air intake on just one side. Use included shutter plate to apply for different eye holes.

4.2. Pre-installation preparations of fresh air intake kit

4.3. Provisional attachment

The wiring work for indoor unit

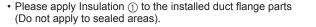
7/16 in.).

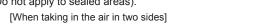
Please be sure to carry out the wiring work before installing the fresh air kit

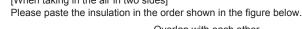
5. DUCT INSTALLATION

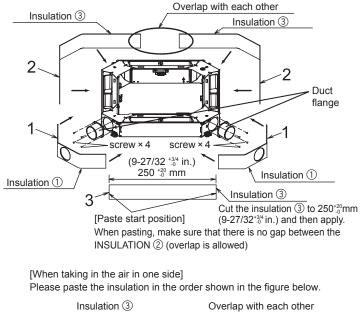
Please make sure to install the sensor holder inside the control box, as it is a fire hazard. Otherwise, it may cause fire. Procure a duct with internal diameter that fits the external diameter of the [Single, Multi] [VRF] Please note that regulations of some countries may require the use of a If the duct penetrates a fire-retarding division or other fire-proofing measures, the installation of fire dampers, or a construction that does not adversely affect fire control measures is a regulatory requirement of When using metallic ducts please ensure metals (i.e., metal lath, wire lath, stainless sheeting) are electrically insulated. Holder:Reattach (A short occurring by electrical connection can cause fire) Sensor:Remove Please ensure to thermally insulate connected ducts to prevent Holder Reattach Sensor:Remove Please make certain that netting or other measures are installed in parts (4) Insert the connector of the sensor attached to the Fresh Air Intake Kit exposed to the outside air to prevent infiltration of small animals such as onto the circuit board of the indoor unit. Please be certain to install external air filters to parts exposed to the [VRF] (AUXA**LALH, AUXD**LALH) [Single, Multi] outside air for heat exchanger protection of indoor equipment. Please avoid the infiltration of rain water by installing outside ducts with an incline of at least 1/30, and fitting hoods on openings. Be certain to use electric dampers and shutters to avoid infiltration of cold air, wind and fog during shutdown in areas with cold climates, strong CN8 : WHITE CN8 : WHITE [VRF] (AUXA**G*LH, AUXD**G*LH) 5.2. Duct installation (1) Please fasten the connecting parts of the ducts with bands, and wrap with vinyl tape to ensure no air leaks. (Carry out the work to ensure no air leakage at a pressure of 200 Pa (0.03 psi)) Please do not construct the duct in the manner of below. Highly Repetitive Bends CN8: WHITE Making the Connecting Duct Diameters Smaller (2) When using T-shaped pipe, suspend the kit with suspension bands for (5) Insert the included extension cable for use with louver to the connector. duct-use to avoid unnecessary load bearing. [Single, Multi] WHITE Bands for duct-use Duct Indoor Unit (field supplied) (field supplied) CN11 : WHITE RED CN12 : RED [VRF] (AUXA**LALH, AUXD**LALH) [VRF] (AUXA**G*LH, AUXD**G*LH) Fresh Air Intake Kit WHITE T-shaped pipe (field supplied) · Please refer to "7. WIRING THE DUCT FAN" when wiring is required for RFD 6. DECORATION PANEL INSTALLATION CN11 : RED CN11 : RED CN12 : WHITE CN12 : WHITE 6.1. Pre-installation preparations (2) Remove the connecter from the existing temperature sensor, found on the circuit board of the indoor unit. [VRF] temperature sensor temperature senso CN8 : WHITE CN8 : WHITE

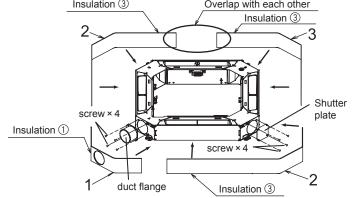
5.1. Pre-installation preparations



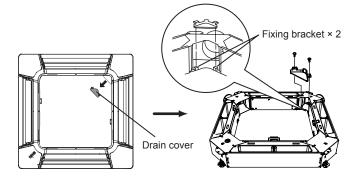




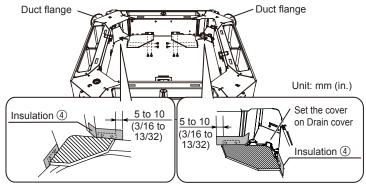


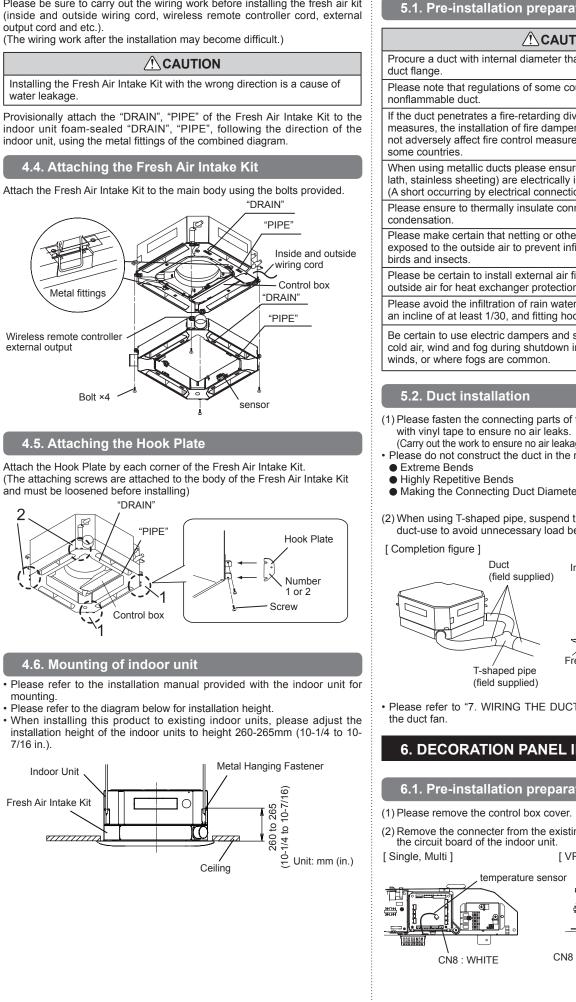


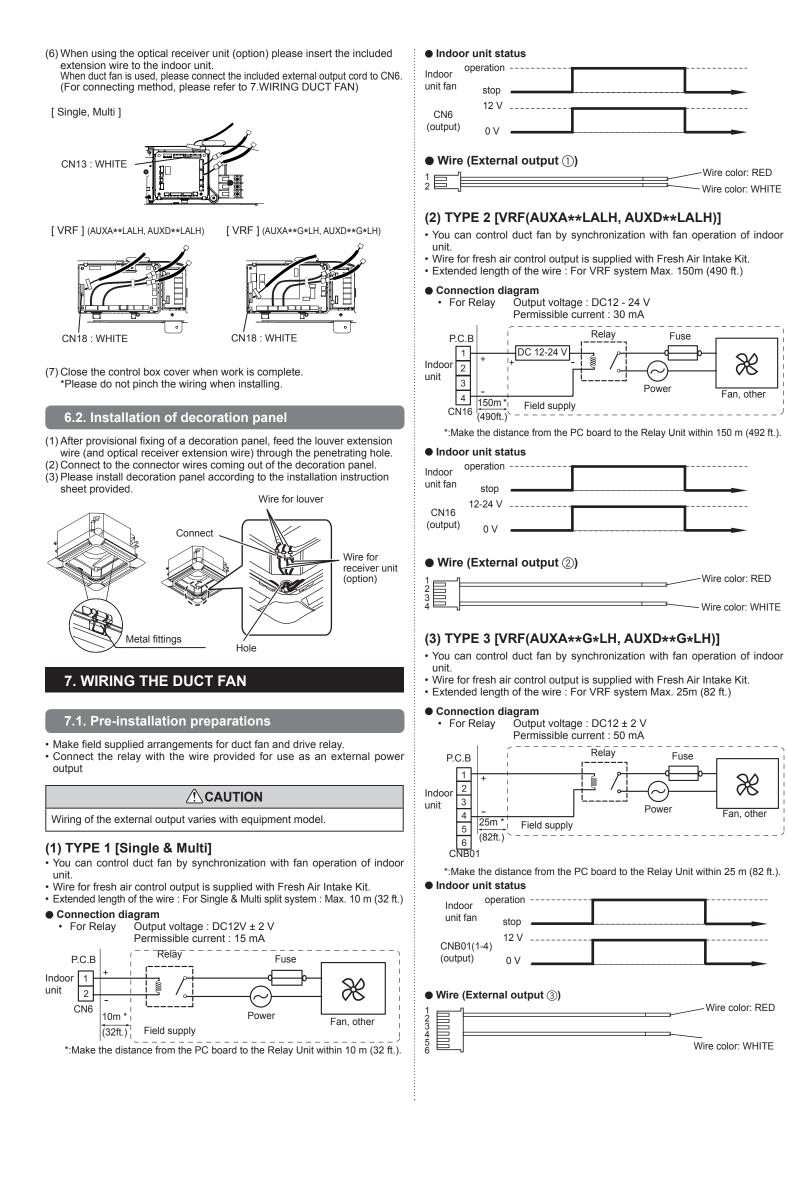
Remove the drain cover attached to the decoration panel and install onto the Fresh Air Intake Kit.



Set the cover in position with screws (2 places) as shown in the diagram. Apply the INSULATION ④ after installing the cover.







7.2. Connection methods Wire modification Use a tool to cut off the terminal on the end of the wire, and then remove the insulation from the cut end of the wire. Connect the wire with connecting wire with solder. IMPORTANT: Be sure to insulate the connection between the wires. Option parts: Field supply External input /output wire V/////// ₽ V/////// Solder and insulate the connected parts. Connection terminals and wiring arrangement TYPE 1 [Single & Multi] Through-hole CN6 TYPE 2 [VRF (AUXA**LALH, AUXD**LALH)] - Through-hole CN16 TYPE 3 [VRF (AUXA**G*LH, AUXD**G*LH)] Through-hole CNB01

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Fan, other

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