

Air Conditioner

SERVICE MANUAL

(Exploded View)

MODEL : ZU UW30GA1 [UUC1 U40]

CAUTION

Before Servicing the unit, read the safety precautions in General SVC manual.
Only for authorized service personnel.

1. Specification

Model				ZUUW30GA1 UUC1 U40
				U4
Power Supply		V, Ø, Hz	220-240, 1, 50	
Power Factor	Rate	-	0.98	
Running Current	Max.	A	17.0	
ELCB Capacity		A(↑)	25	
Power Supply Cable (included Earth)	ODU	CV(H07RN-F)	mm ³ x Cores	2.5 x 3 (4.0 x 3)
Power and Communication Cable (included Earth)	IDU ↔ ODU	VCTF-SB	mm ³ x Cores	0.75 x 4
Casing Color		-	Warm Gray	
Dimensions	Net	W x H x D	mm	950 × 834 × 330
	Shipping	W x H x D	mm	1,065 × 918 × 461
				-
Weight	Net		kg	57.7
	Shipping		kg	63.3
Compressor	Type		-	Twin Rotary
	Model		Model x No.	DJT240MMA x 1
	Motor type		-	BLDC
	Motor Output		W x No.	2020 x 1
Refrigerant	Type		-	R32
	GWP (Global Warming Potential)		-	675
	Precharged Amount		kg	1.9
	t-CO ₂ eq.		-	1.283
	Control		-	EEV
Refrigerant Oil	Chargeless-Pipe Length		m	7.5
	Type		-	FW68D
	Charged volume		cc x No.	900 × 1
Heat Exchanger	(Row x Column x FPI) x No.		-	(2 × 38 × 14) × 1
Fan	Type		-	Propeller
	Air Flow Rate	Rated	m ³ /min x No.	58 × 1
	RPM	Max.	Rev./Min	800
Fan Motor	Type		-	BLDC
	Drive		-	External
	Output		W x No.	124 × 1
Maximum Height Difference (ODU ~ IDU)	Max.		m	30
max allowable pressure	High / Low Pressue Parts		MPa	4.32 / 2.4

Note:

1. All data are based on the following conditions:

- Cooling Temperature : Indoor 27 °C(80.6 °F) DB / 19 °C(66.2 °F) WB
Outdoor 35 °C(95 °F) DB / 24 °C(75.2 °F) WB
- Heating Temperature : Indoor 20 °C(68 °F) DB / 15 °C(59 °F) WB
Outdoor 7 °C(44.6 °F) DB / 6 °C(42.8 °F) WB
- Piping Length : Interconnected Pipe Length = 7.5 m
- Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.

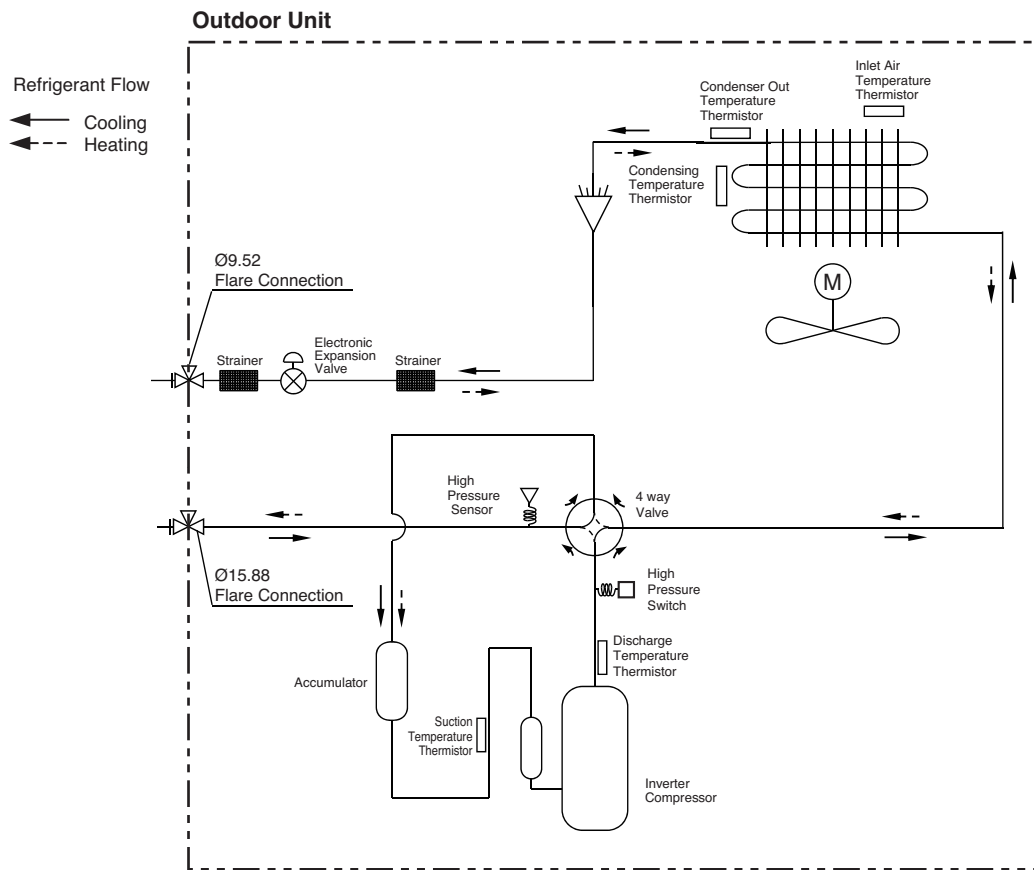
2. Wiring cable size must comply with the applicable local and national code.

3. Due to our policy of innovation some specifications may be changed without notification.

4. Sound Level Values are measured at Anechoic chamber.

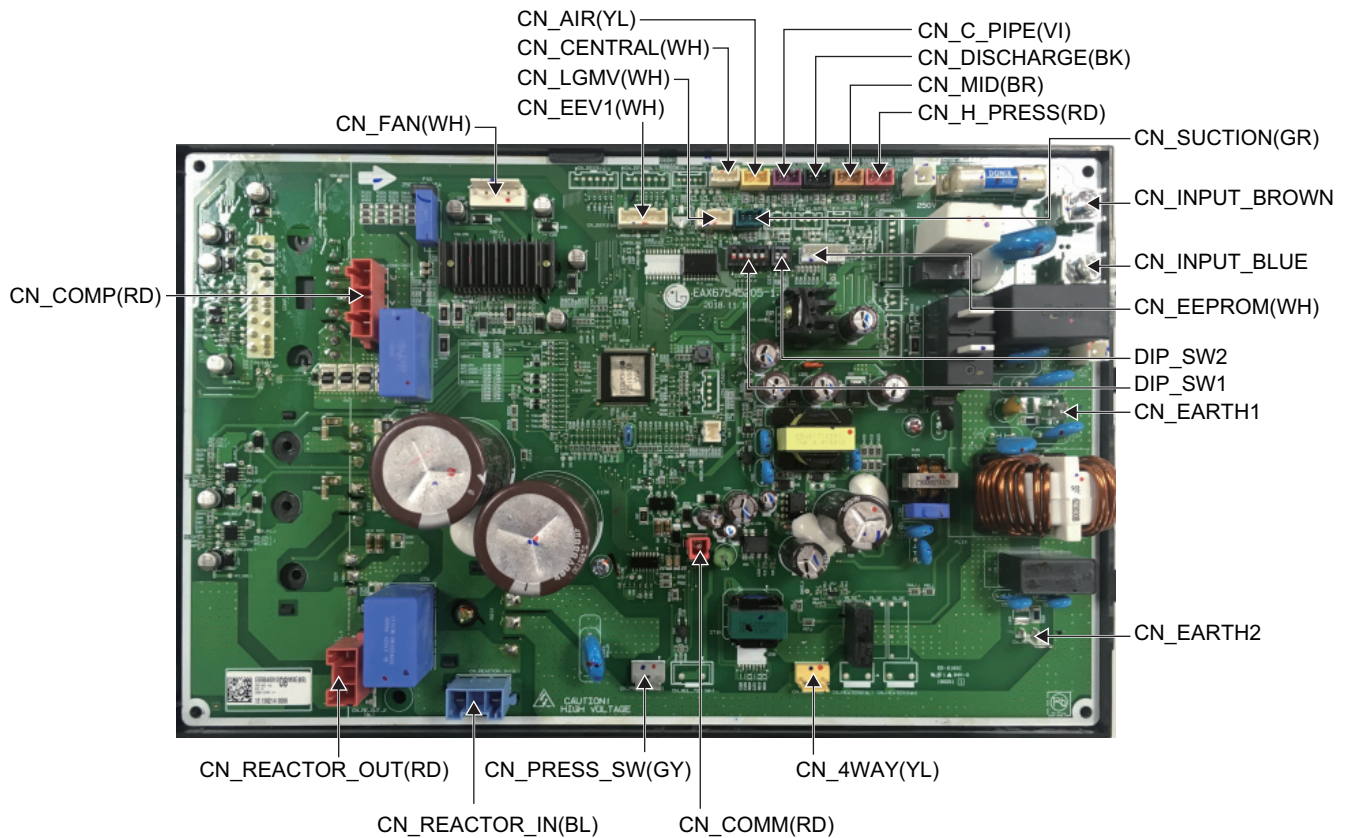
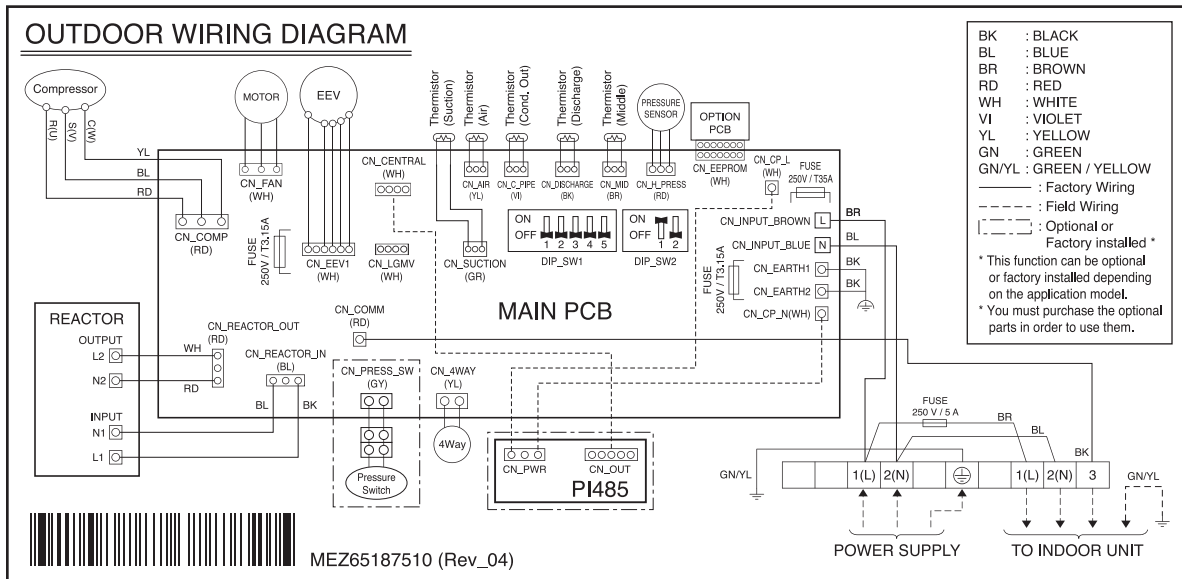
Therefore, these values can be increased(maximum 3 dB(A)) owing to ambient conditions during operation.

2. Piping Diagrams

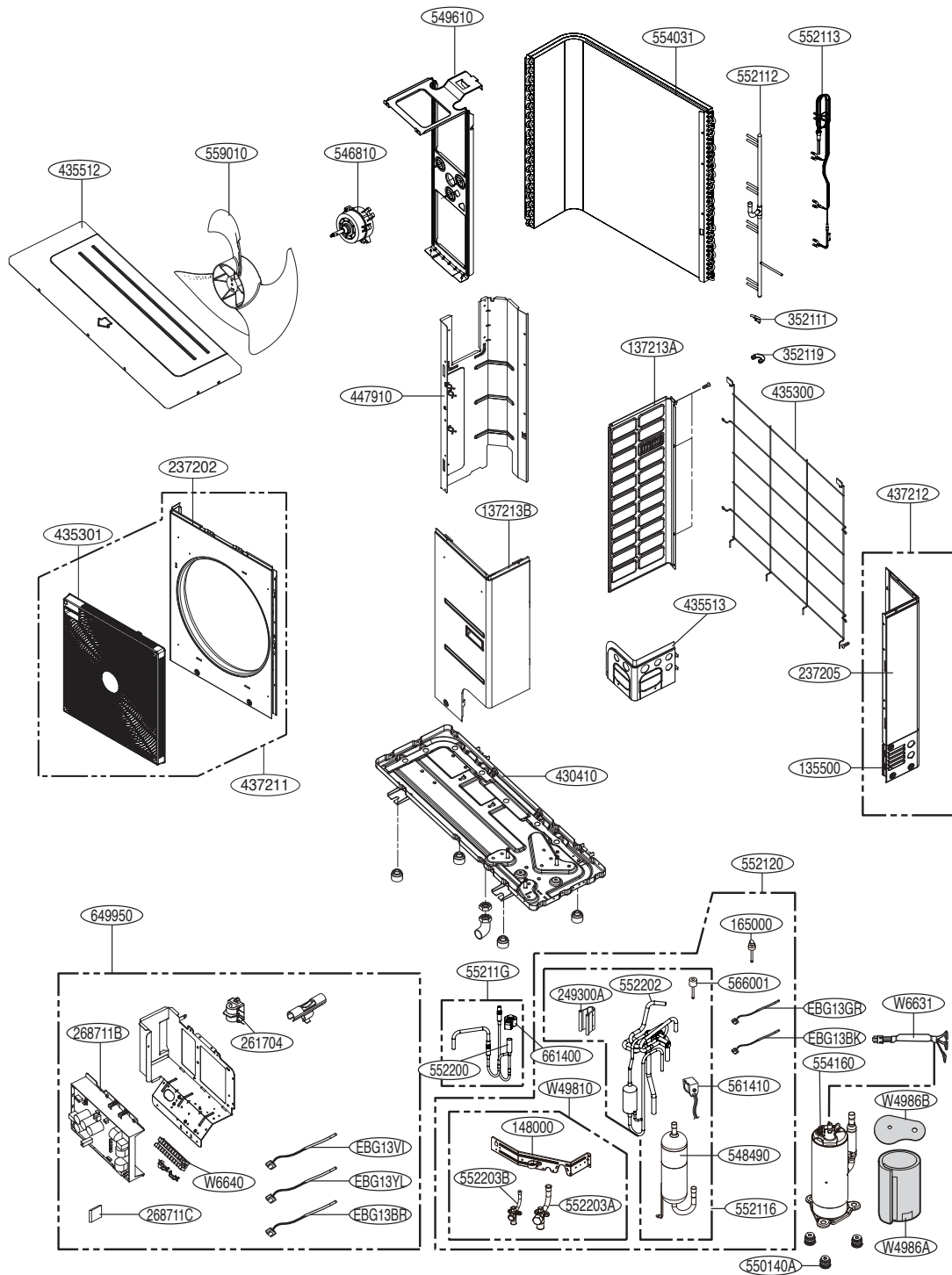


LOC.	Description	PCB Connector
EEV	Electronic Expansion Valve	CN_EEV1(WH)
Th1	Thermistor for suction pipe temperature	CN_SUCTION(GR)
Th2	Thermistor for discharge pipe temperature	CN_DISCHARGE(BK)
Th3	Thermistor for condenser pipe temperature	CN_C_PIPE(VI)
Th4	Thermistor for outdoor air temperature	CN_AIR(YL)
Th5	Thermistor for condenser middle pipe temperature	CN_MID(BR)
Th6	Pressure sensor	CN_H_PRESS(RD)
Th7	Pressure switch	CN_PRESS_SW(GY)

3. Wiring Diagrams



4. Exploded View



Location No.	Description	Information	Housing Color
EBG13GR	Thermistor1(CN-SUCTION)	Suction pipe	Green
EBG13BK	Thermistor2(CN-DISCHARGE)	Discharge pipe	Black
EBG13VI	Thermistor3(CN-C_PIPE)	Cond-Out pipe	Violet
EBG13YL	Thermistor4(CN-AIR)	Air	Yellow
EBG13BR	Thermistor5(CN-MID)	Cond-Mid	Brown
165000	Pressure sensor(CN-H_PRESS)	Pressure Sensor	Red
566001	Pressure switch(CN_PRESS)	Pressure Switch	Gray
249300A	Holder,Sensor(Φ7 sensor-Φ9.52 Pipe)	Discharge Pipe Sensor Holder	(Black)
249300B	Holder,Sensor(Φ5 sensor-Φ7 Pipe)	Cond-Mid Pipe Sensor Holder	(Brown)



P/NO : MFL71683709