



CONFIDENTIAL

Air Conditioner

SERVICE MANUAL

(Exploded View)

MODEL : ZU UW12GA1 [UUA1 UL0]

CAUTION

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

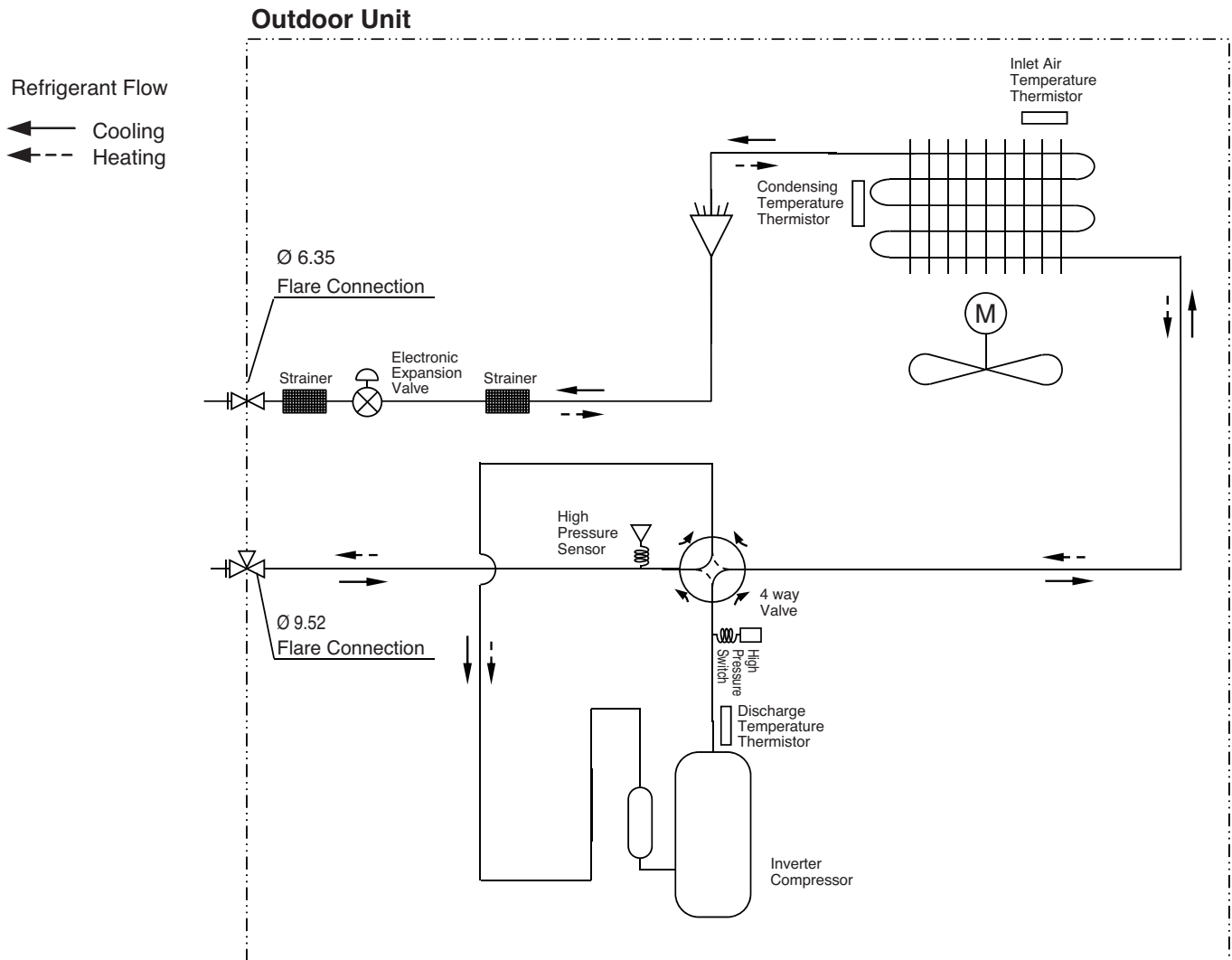
1. Specification

Model				ZUUW12GA1
				UUA1 UL0
				UL2
Power Supply		V, Ø, Hz	220-240, 1, 50	
Power Factor	Rated	-	0.98	
Running Current	Max.	A	10.0	
ELCB Capacity		A(↑)	15	
Power Supply Cable (included Earth)	ODU	CV(H07RN-F)	mm ³ x Cores	1.5 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	A(↑)	770 x 545 x 288
	Shipping	W x H x D	mm ³ x Cores	920 x 588 x 388
				-
Weight	Net		kg	33.3
	Shipping		kg	36.0
Compressor	Type		-	Twin Rotary
	Model		Model x No.	DAT156MAD x 1
	Motor type		-	BLDC
	Motor Output		W x No.	1500 x 1
Refrigerant	Type		-	R32
	GWP (Global Warming Potential)		-	675
	Precharged Amount		kg	1.0
	t-CO ₂ eq.		-	0.675
	Control		-	EEV
	Chargeless-Pipe Length		m	7.5
Refrigerant Oil	Type		-	FW68D
	Charged volume		cc x No.	400 x 1
Heat Exchanger	(Row x Column x FPI) x No.		-	(2 x 24 x 14) x 1
Fan	Type		-	Propeller
	Air Flow Rate	Rated	m ³ /min x No.	28 x 1
	RPM	Max.	Rev./Min	900
Fan Motor	Type		-	BLDC
	Drive		-	External
	Output		W x No.	43.0 x 1
Piping Connections	Liquid	Outer Dia.	mm	Ø 6.35 (1/4)
	Gas	Outer Dia.	mm	Ø 9.52 (3/8)
	Connections Method		-	Flared
Maximum Height Difference (ODU ~ IDU)		Max.	m	30
max allowable pressure	High / Low Pressue Parts		Mpa	4.32 / 2.4

Note:

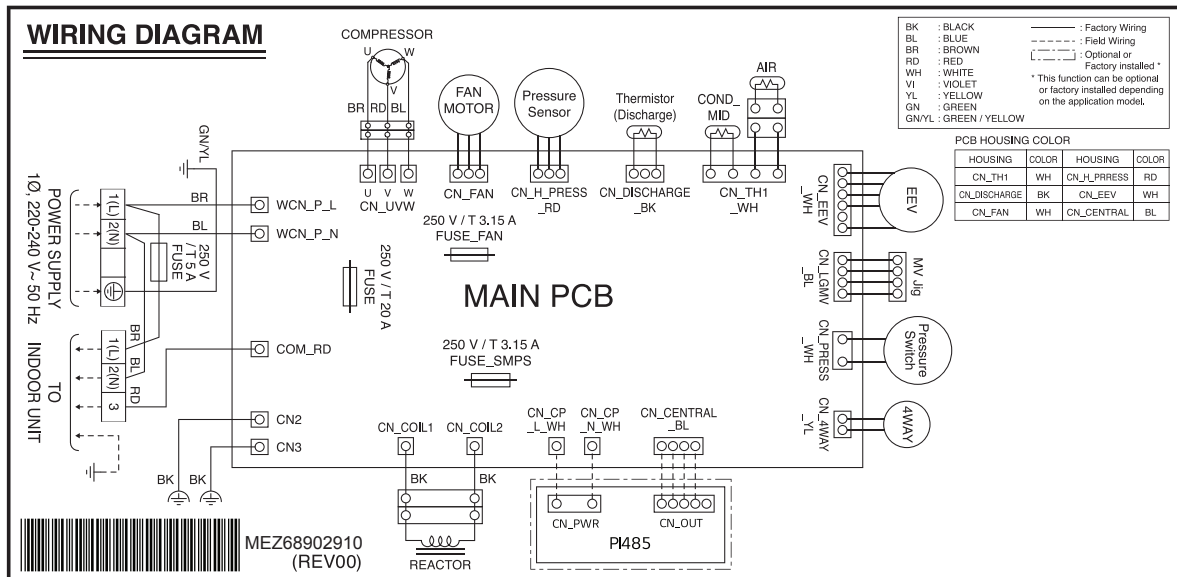
- All data are based on the following conditions:
 - Cooling Temperature : Indoor 27 °C(80.6 °F) DB / 19 °C(66.2 °F) WB
Outdoor 35 °C(95 °F) DB / 24 °C(75.2 °F) WB
 - Heating Temperature : Indoor 20 °C(68 °F) DB / 15 °C(59 °F) WB
Outdoor 7 °C(44.6 °F) DB / 6 °C(42.8 °F) WB
 - Piping Length : Interconnected Pipe Length = 7.5m
 - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
- Wiring cable size must comply with the applicable local and national code.
- Due to our policy of innovation some specifications may be changed without notification.
- Sound Level Values are measured at Anechoic chamber.
Therefore, these values can be increased(maximum 3dB(A)) owing to ambient conditions during operation.

2. Piping Diagrams

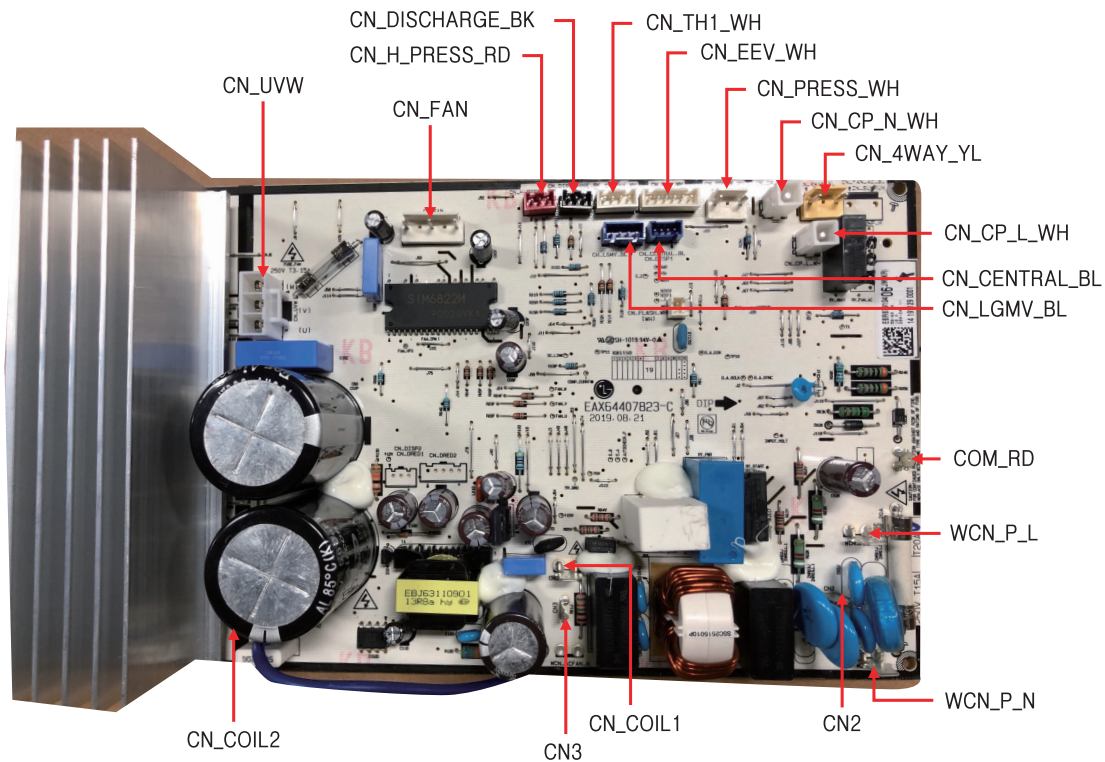


Description	PCB Connector
Inlet Air & Condensing Temperature Thermistor	CN_TH1_WH
Discharge Temperature Thermistor	CN_DISCHARGE_BK
High Pressure Sensor	CN_H_PRESS_RD
Electronic Expansion Valve	CN_EEV_WH
Pressure switch	CN_PRESS_WH

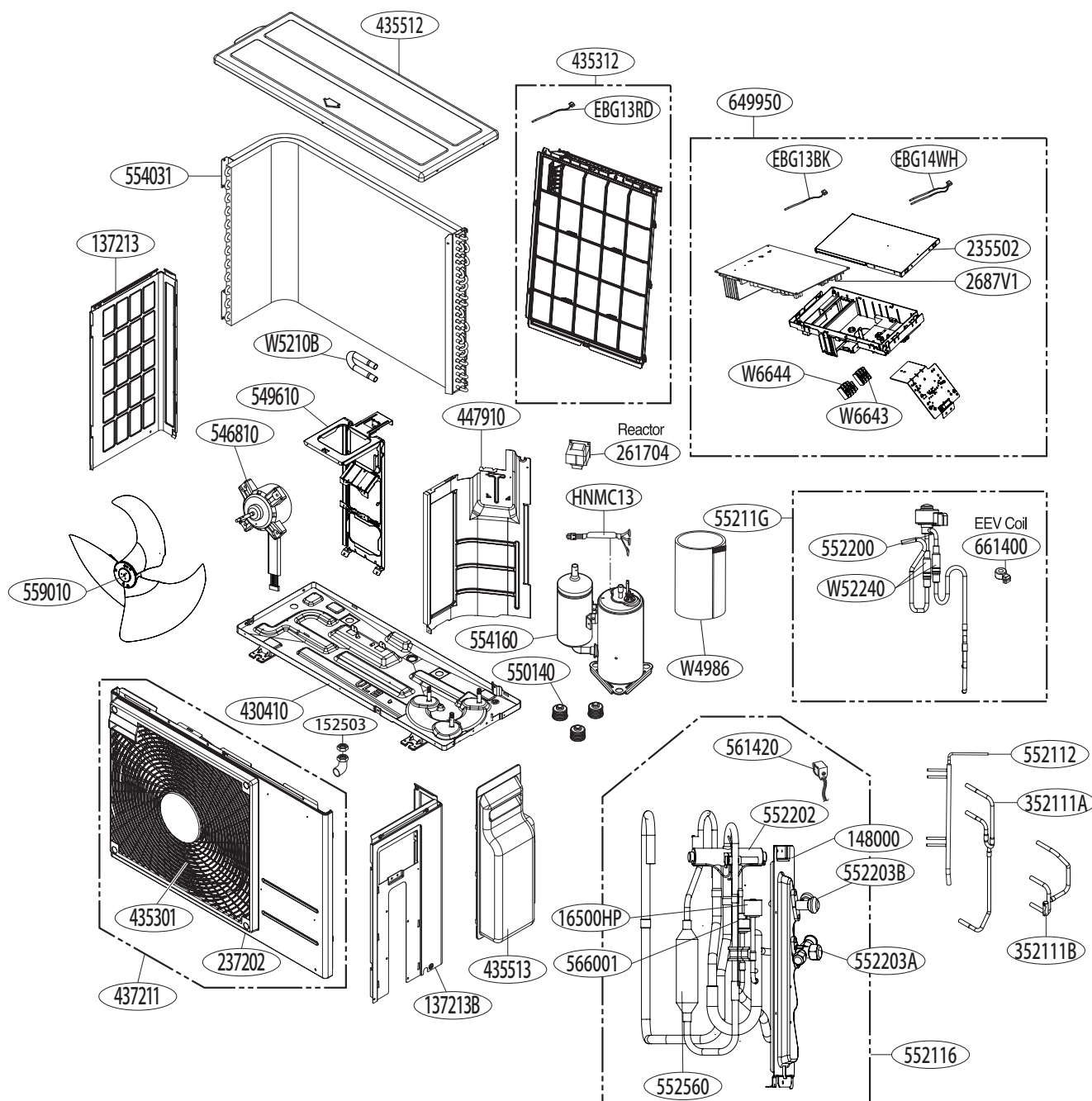
3. Wiring Diagrams



4. PCB



5. Exploded View



Location No.	Description	Sensor Information	Housing Color
EBG13BK	Thermistor(CN_DISCHARGE_BK)	Discharge pipe thermistor	Black
EBG14WH	Thermistor(CN_TH1_WH)	Middle thermistor	White
263230C		Air thermistor	Red
16500HP	CN_H_PRESS_RD	High Pressure Sensor	Red
566001	CN_PRESS_WH	Pressure Switch	White



P/NO : MFL71683608