



Air Conditioner

SVC MANUAL(Exploded View)

**MODEL : Z4UR36GFA0 [KUMXB361A]
Z4UR30GFA0 [KUMXB301A]**

CAUTION

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

P/NO : MFL68280024

Rev.01_101024

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1. Specification

Outdoor unit				Z4UR36GFA0 [KUMXB361A]	Z4UR30GFA0 [KUMXB301A]
Testing Combination (Non Ducted)		-		KNUAB091A x 4EA	KNMAB071A x 3EA KNUAB091A x 1EA
Testing Combination (Ducted)		-		KNMKB121A x 3EA	KNMKB091A x 2EA KNMKB121A x 1EA
Power Supply		V, Ø, Hz		208/230, 1, 60	208/230, 1, 60
Capacity (Non Ducted)	Cooling	Min.~Rated~Max	kW	2.46 / 9.61 / 11.3	2.46 / 8.79 / 10.6
		Min.~Rated~Max	Btu/h	8,400 / 32,800 / 38,400	8,400 / 30,000 / 36,000
	Heating	Min.~Rated~Max	kW	2.95 / 10.6 / 12.2	2.95 / 9.37 / 11.3
		Min.~Rated~Max	Btu/h	10,080 / 36,000 / 41,600	10,080 / 32,000 / 38,400
Capacity (Ducted)	Cooling	Min.~Rated~Max	kW	3.17 / 9.03 / 10.6	3.17 / 8.03 / 10.0
		Min.~Rated~Max	Btu/h	10,800 / 30,800 / 36,000	10,800 / 27,400 / 34,000
	Heating	Min.~Rated~Max	kW	3.80 / 10.0 / 11.6	3.80 / 8.79 / 10.6
		Min.~Rated~Max	Btu/h	12,960 / 34,000 / 39,600	12,960 / 30,000 / 36,000
Power Input (Non Ducted)	Cooling	Min.~Rated~Max	kW	0.56 / 2.62 / 3.90	0.56 / 2.31 / 3.86
	Heating	Min.~Rated~Max	kW	0.55 / 2.74 / 3.90	0.55 / 2.34 / 3.35
Power Input (Ducted)	Cooling	Min.~Rated~Max	kW	0.77 / 2.63 / 3.90	0.77 / 2.28 / 3.73
	Heating	Min.~Rated~Max	kW	0.78 / 2.74 / 3.90	0.78 / 2.34 / 3.52
Efficiency (Non Ducted)	EER2 / COP		W/W	3.66 / 3.85	3.81 / 4.01
	SEER2 / HSPF2		W/W	21.5 / 9.5	22.0 / 9.5
Efficiency (Ducted)	EER2 / COP		W/W	3.43 / 3.64	3.52 / 3.75
	SEER2 / HSPF2		W/W	18.0 / 8.6	18.5 / 8.8
Running Current (Non Ducted)	Cooling	Min.~Rated~Max	A	2.5 / 11.9 / 17.7	2.5 / 10.5 / 17.5
	Heating	Min.~Rated~Max	A	2.5 / 12.4 / 17.7	2.5 / 10.6 / 15.2
Running Current (Ducted)	Cooling	Min.~Rated~Max	A	3.5 / 11.9 / 17.7	3.5 / 10.3 / 16.9
	Heating	Min.~Rated~Max	A	3.5 / 12.4 / 17.7	3.5 / 10.6 / 15.9

Note:

- All data are based on the following conditions:
 - Cooling Temperature : Indoor 26.7°C(80°F) DB / 19.4°C(67°F) WB
Outdoor 35°C(95°F) DB / 23.9°C(75°F) WB
 - Heating Temperature : Indoor 21.1°C(70°F) DB / 15.6°C(60°F) WB
Outdoor 8.3°C(47°F) DB / 6.1°C(43°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 1 dB(A)) owing to ambient conditions during operation.

Outdoor unit				Z4UR36GFA0 [KUMXB361A]	Z4UR30GFA0 [KUMXB301A]
Wiring Connections	Power Supply Cable (included Earth)		No. x mm2 (AWG)	3C x 3.3 (12)	3C x 3.3 (12)
	Power and Communication Cable (included Earth)	Outdoor ~ BD unit	No. x mm2 (AWG)	-	-
Combination	Sum of Indoor Units Capacity		kBtu/h	48	40
	Number of Indoor Units		EA	2 ~ 4	2 ~ 4
	Number of BD Units		EA	-	-
Casing Color (RAL, Munsell)			-	Warm Gray RAL 7044 Munsell 2.5Y 7.5/1	Warm Gray RAL 7044 Munsell 2.5Y 7.5/1
Dimensions		W x H x D	mm	950 x 834 x 330	950 x 834 x 330
		W x H x D	inch	37-13/32 x 32-27/32 x 13	37-13/32 x 32-27/32 x 13
Net Weight			kg (lbs)	63.5 (140.0)	63.5 (140.0)
Compressor	Type		-	Twin Rotary	Twin Rotary
	Model		Model x No.	DJT240MAA x 1	DJT240MAA x 1
	Motor Output		W x No.	2,137(at 60 Hz) x 1	2,137(at 60 Hz) x 1
Refrigerant	Type		-	R32	R32
	Precharged Amount		g (oz)	2,200 (77.6)	2,200 (77.6)
	Chargeless-Pipe Length		m (ft)	37.5 (123.0)	37.5 (123.0)
	Additional Charging Volume		g/m (oz/ft)	20 (0.22)	20 (0.22)
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type		-	FW68D	FW68D
	Charged volume		cc x No.	900 x 1	900 x 1
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 38 x 14) x 1	(2 x 38 x 14) x 1
Fan	Type		-	Propeller	Propeller
	Air Flow Rate		ft3/min x No.	2,295.5 x 1	2,295.5 x 1
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	124 x 1	124 x 1
Sound Pressure Level	Cooling	Rated	dB(A)	51	51
	Heating	Rated	dB(A)	54	54
Piping Connections	Liquid	Outer Dia.	mm(inch) x No.	Ø 6.35 (1/4) x 4	Ø 6.35 (1/4) x 4
	Gas	Outer Dia.	mm(inch) x No.	Ø 9.52 (3/8) x 4	Ø 9.52 (3/8) x 4
Piping Length	Total Piping	Max.	m (ft)	75 (246.1)	75 (246.1)
	Main Piping	Max.	m (ft)	-	-
	Total Branch Piping	Max.	m (ft)	-	-
	Each Branch Piping	Max.	m (ft)	25 (82.0)	25 (82.0)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	15 (49.2)	15 (49.2)
	Indoor Unit ~ Indoor Unit	Max.	m (ft)	7.5 (24.6)	7.5 (24.6)
Continuous Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-10 (14) ~ 48 (118.4)	-10 (14) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-20 (-4.0) ~ 18 (64.4)	-20 (-4.0) ~ 18 (64.4)

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2. List of Functions & Accessory

2.1 List of Functions

Category	Function	Z4UR36GFA0 [KUMXB361A] Z4UR30GFA0 [KUMXB301A]
Reliability	Defrost / Deicing	O
	High Pressure Switch	O
	Low Pressure Switch	X
	Phase Protection	X
	Restart Delay (3-minutes)	O
	Self Diagnosis	O
	Soft Start	O
	Test Function	O
Convenience	Night Low Noise Operation	O
	Peak Control	O
	Mode Lock	O
	Forced Cooling Operation (Outdoor Unit)	O
Network Function	Network Solution(LGAP)	O

2.2 List of Accessory

Device		Z4UR36GFA0 [KUMXB361A] Z4UR30GFA0 [KUMXB301A]
Intergration Solution	MultiSITE Communications Manager	PBACNBTR0A
Building Network Unit	AC Smart 5	PACS5A000
	ACP 5	PACP5A000
Installation	Y-Branch	X
	Header Branch	X
	Air Guide	X
Other	Power Distribution Indication (PDI) Premium	PQNUD1S41
	Dry Contact	X
	Low Ambient Wind Baffle Kit	ZLABGP04A
	Drain Pan Heater	PQSH1200
	Compatibility w / prior generation of Multi F	X
	Computer LG Monitoring View (LGMV)	PRCTIL0
	Mobile LGMV for Android Smartphones / Tablets	PLGMVW100
	Mobile LGMV for iOS Tablet	PLGMVW100

Note :

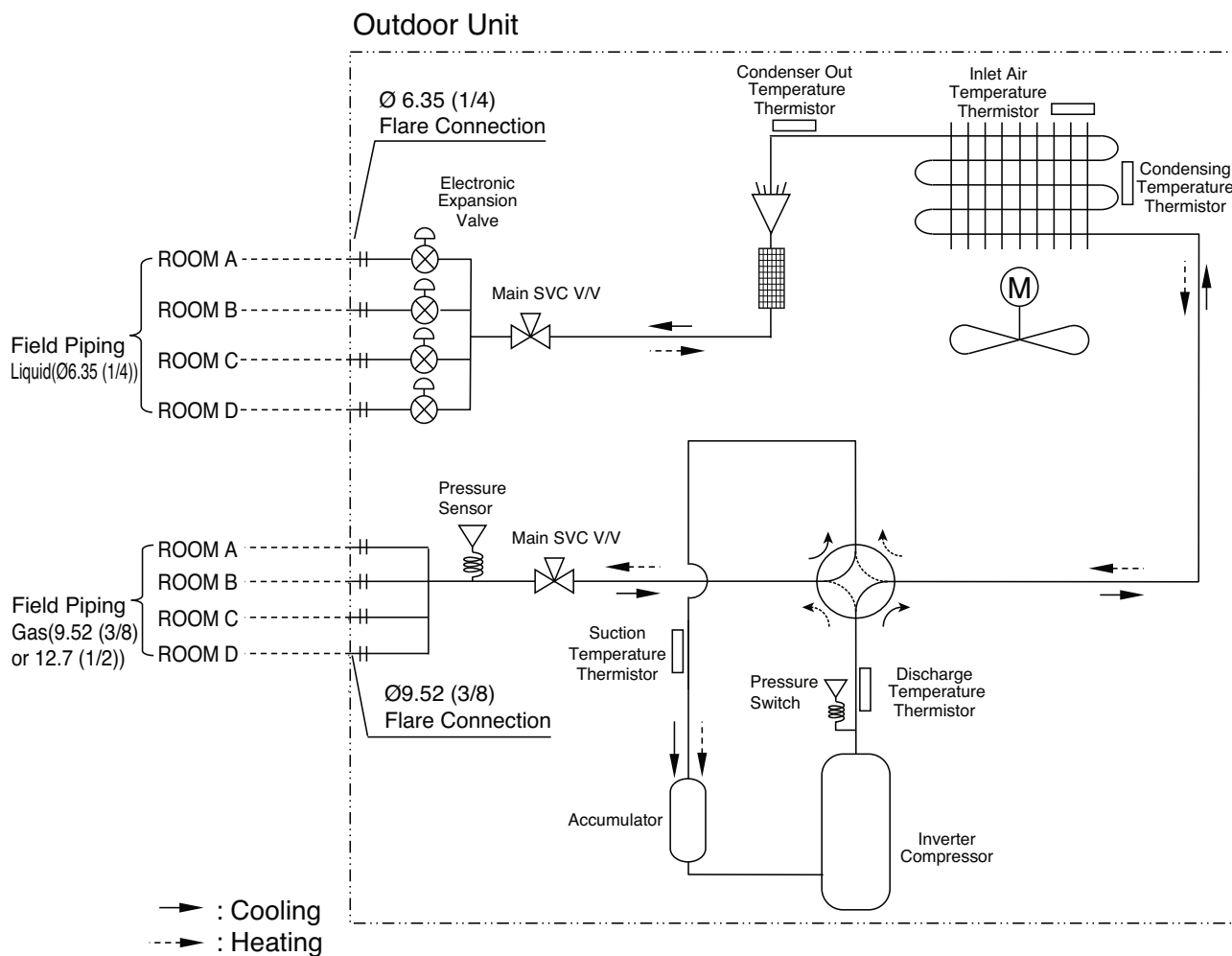
O : Applied, x : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

3. Piping Diagrams

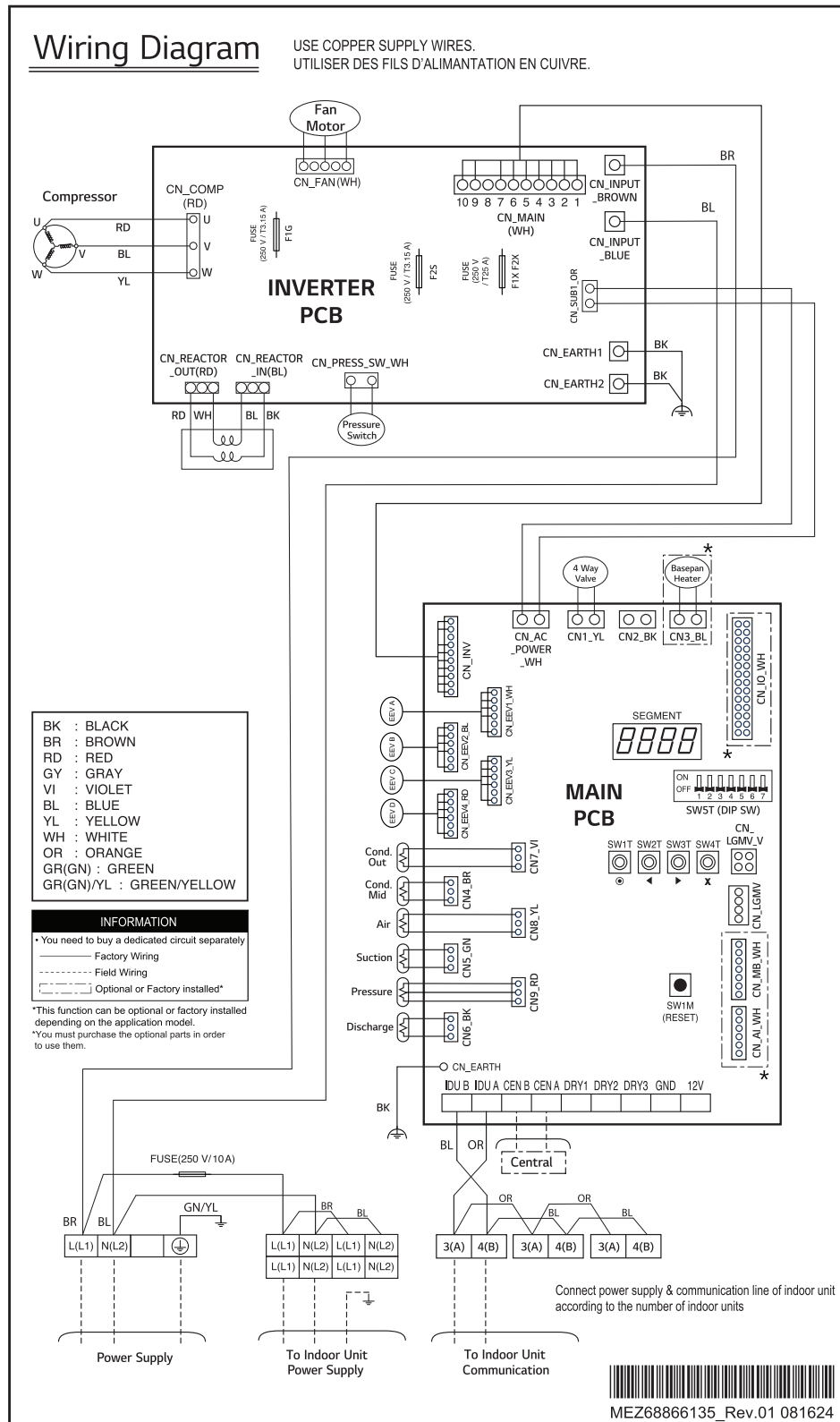
Z4UR36GFA0 [KUMXB361A] / Z4UR30GFA0 [KUMXB301A]

Unit : mm (inch)



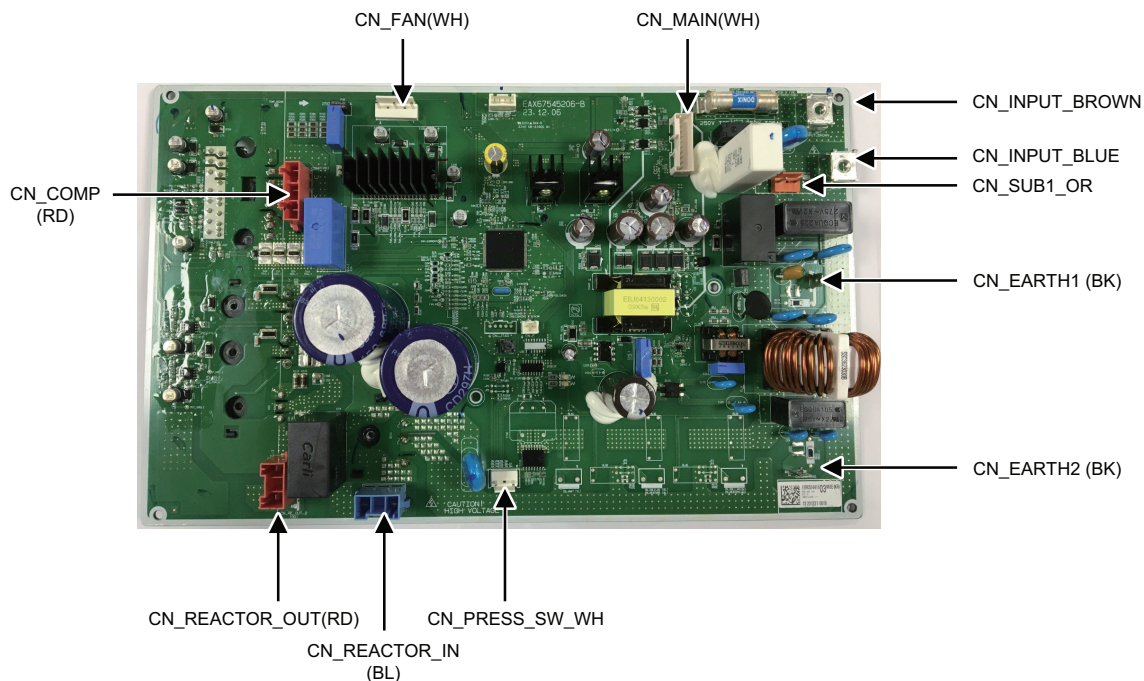
4. Wiring Diagrams

Z4UR36GFA0 [KUMXB361A] / Z4UR30GFA0 [KUMXB301A]

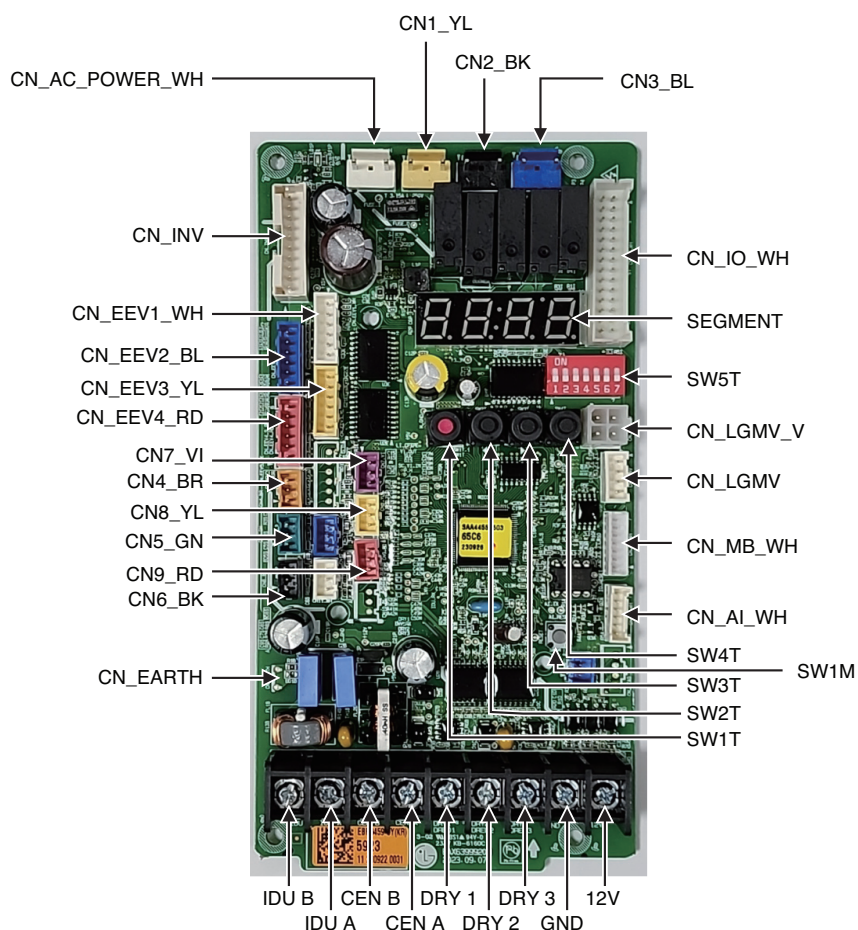


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Inverter PCB



Main PCB

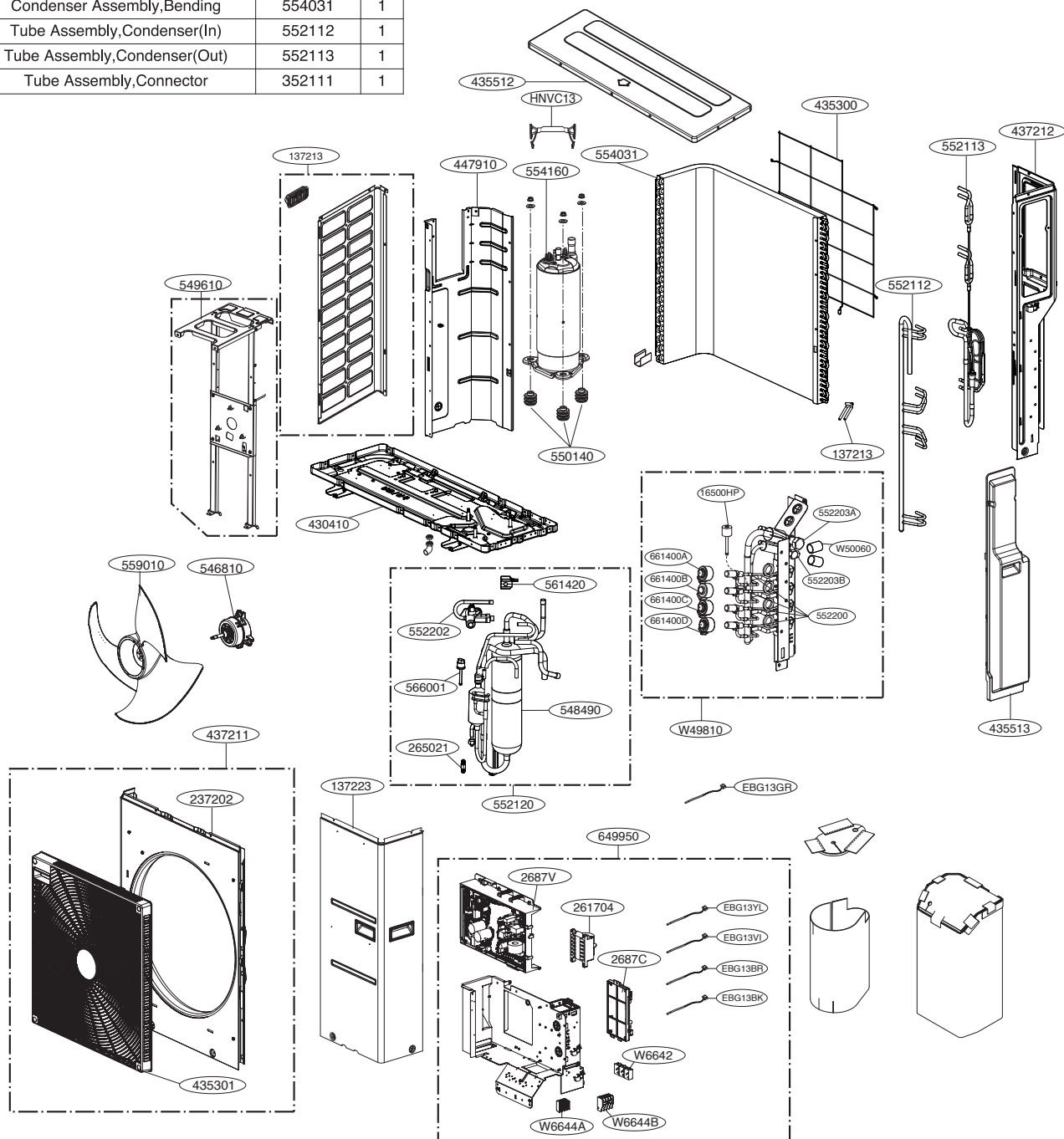


5. Exploded View

Z4UR36GFA0 [KUMXB361A] / Z4UR30GFA0 [KUMXB301A]

- Condenser Total Assembly Required Parts

Description.	Location No.	Q'ty
Condenser Assembly,Bending	554031	1
Tube Assembly,Condenser(In)	552112	1
Tube Assembly,Condenser(Out)	552113	1
Tube Assembly,Connector	352111	1



Location No.	Description	Sensor Information	Housing Color
EBG13BK	Thermistor(CN6_BK)	Discharge Pipe	Black
EBG13BR	Thermistor(CN4_BR)	Cond Middle Pipe	Brown
EBG13VI	Thermistor(CN7_VI)	Cond Out Pipe	Violet
EBG13GR	Thermistor(CN5_GN)	Suction Pipe	Green
EBG13YL	Thermistor(CN8_YL)	Air	Yellow
16500HP	Pressure Sensor(CN9_RD)	Pressure Sensor	Red



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