



# Service Manual

**GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI**



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D2 panel(Black)



D2 panel(White)



D2 panel(Champagne)

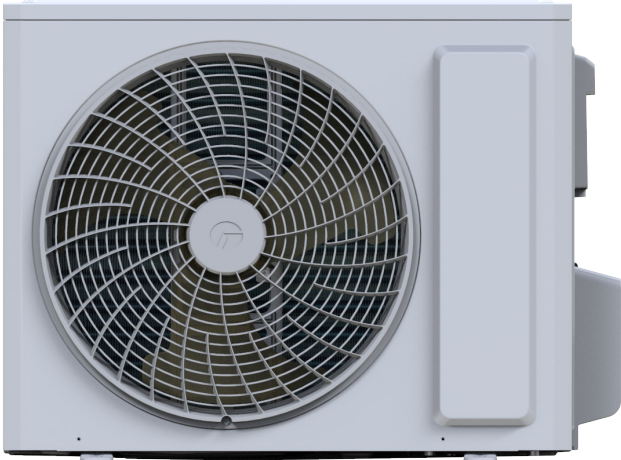


D8 panel

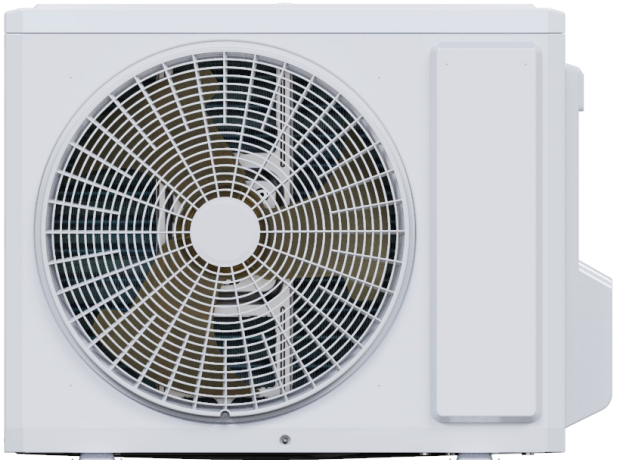


**Outdoor Unit:**

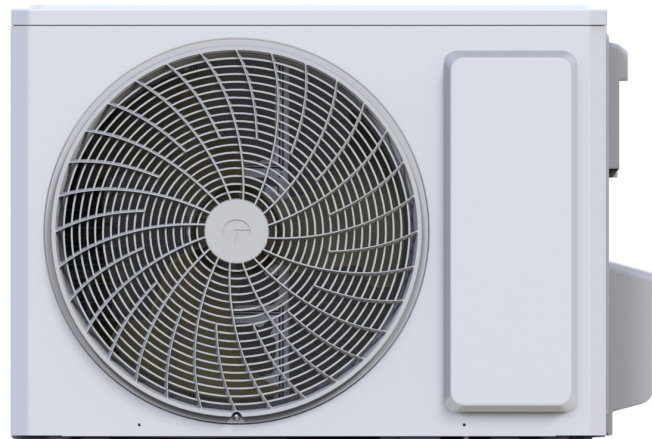
GWH09AFC-K6DNA2F/O  
GWH12AFC-K6DNA2F/O  
GWH18ALD-K6DNA1A/O



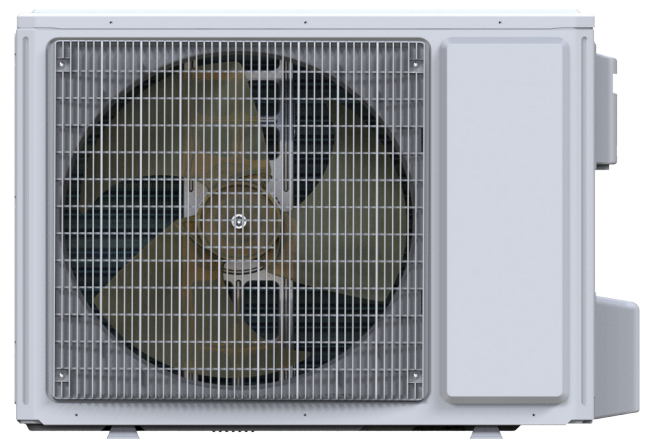
GWH07QA-K6DNC4A/O GWH09AGA-K6DNA1A/O  
GWH09AGB-K6DNA1B/O GWH12AGB-K6DNA1A/O



GWH18AFD-K6DNA2I/O



GWH18QD-K6DNA1D/O  
GWH24QE-K6DNA1E/O









No	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller	
49	GWH18QD-K6DNA2I	CB426008801	GWH18QD-K6DNA2I/I	CB426N08800	GWH18AFD-K6DNA2I/O	CB363W04201	YAC1FB9 (WiFi)	
50	GWH18QD-K6DNA5I	CB425016301	GWH18QD-K6DNA5I/I	CB425N16300				
51	GWH18QD-K6DNB2I	CB432026201	GWH18QD-K6DNB2I/I	CB432N26201				
52	GWH18QD-K6DNB4I	CB434022401	GWH18QD-K6DNB4I/I	CB434N22400				
53	GWH18QD-K6DNB6I	CB435014201	GWH18QD-K6DNB6I/I	CB435N14200				
54	GWH18QD-K6DNB8I	CB438014001	GWH18QD-K6DNB8I/I	CB438N14000				
55	GWH18QD-K6DNC6I	CB443011001	GWH18QD-K6DNC6I/I	CB443N11000				
56	GWH18QD-K6DND2I	CB461007601	GWH18QD-K6DND2I/I	CB461N07601				
57		CB461007602		CB461N07602				
58		CB461007605		CB461N07600				
59		CB461007603		CB461N07603				
60	GWH18QD-K6DND6I	CB460011501	GWH18QD-K6DND6I/I	CB460N11500				
61	GWH18QD-K6DNB2I	CB432026200	GWH18QD-K6DNB2I/I	CB432N26200				
62		CB432026202		CB432N26201				
63	GWH18QD-K6DNC4I	CB444013300	GWH18QD-K6DNC4I/I	CB444N13300				
64	GWH18QD-K6DND2I	CB461007600	GWH18QD-K6DND2I/I	CB461N07600				
65	GWH18QD-K6DNA5I	CB425016300	GWH18QD-K6DNA5I/I	CB425N16300				
66	GWH18QD-K6DNB6I	CB435014200	GWH18QD-K6DNB6I/I	CB435N14200				
67	GWH18QD-K6DNC4D	CB444012303	GWH18QD-K6DNC4D/I	CB444N12302		GWH18QD-K6DNA1D/O		CB419W15601
68	GWH24QE-K6DNC4E	CB444009802	GWH24QE-K6DNC4E/I	CB444N09802		GWH24QE-K6DNA1E/O		CB419W15701
69	GWH24QE-K6DNB2I	CB432026300	GWH24QE-K6DNB2I/I	CB432N26300		GWH24AFE-K6DNA2I/O		CB363W04100
70	GWH24QE-K6DNB6K	CB435016800	GWH24QE-K6DNB6K/I	CB435N16800				
71	GWH24QE-K6DND2K	CB461007800	GWH24QE-K6DND2K/I	CB461N07800				
72	GWH24QE-K6DNA2I	CB426008601	GWH24QE-K6DNA2I/I	CB426N08600				
73	GWH24QE-K6DNA5I	CB425016401	GWH24QE-K6DNA5I/I	CB425N16400				
74	GWH24QE-K6DNB2I	CB432026301	GWH24QE-K6DNB2I/I	CB432N26301				
75	GWH24QE-K6DNB4I	CB434022601	GWH24QE-K6DNB4I/I	CB434N22600				
76	GWH24QE-K6DNB6I	CB435014301	GWH24QE-K6DNB6I/I	CB435N14300				
77	GWH24QE-K6DNB8I	CB438014201	GWH24QE-K6DNB8I/I	CB438N14200				
78	GWH24QE-K6DNC6I	CB443010701	GWH24QE-K6DNC6I/I	CB443N10700				
79	GWH24QE-K6DND2K	CB461007801	GWH24QE-K6DND2K/I	CB461N07801				
80	GWH24QE-K6DND2K	CB461007803	GWH24QE-K6DND2K/I	CB461N07803				
81		CB461007802		CB461N07802				
82		CB461007804		CB461N07800				
83	GWH24QE-K6DND6I	CB460011301	GWH24QE-K6DND6I/I	CB460N11300				
84	GWH07QA-K6DNB2D	CB432027200	GWH07QA-K6DNB2D/I	CB432N27200	GWH07AGA-K6DNA1A/O	CB385W01100		
85	GWH07QAXA-K6DND8D	CB459010800	GWH07QAXA-K6DND8D/I	CB459N10800	GWH09AGB-K6DNA1B/O	CB385W02300		
86	GWH09QB-K6DND8F	CB459011500	GWH09QB-K6DND8F/I	CB459N11500	GWH18ALD-K6DNA1A/O	CB513W01600		
87	GWH18QD-K6DNB2E	CB432026600	GWH18QD-K6DNB2E/I	CB432N26600				
88	GWH18QD-K6DNC2A	CB439018400	GWH18QD-K6DNC2A/I	CB439N18400				
89	GWH18QD-K6DNC4A	CB444013700	GWH18QD-K6DNC4A/I	CB444N13700				
90	GWH18QD-K6DNE4A	CB470008300	GWH18QD-K6DNE4A/I	CB470N08300				
91	GWH18QDXB-K6DND8E	CB459009602	GWH18QDXB-K6DND8E/I	CB459N09602				
92	GWH24QD-K6DNC2B	CB439018500	GWH24QD-K6DNC2B/I	CB439N18500				
93	GWH24QD-K6DNB2B	CB432026700	GWH24QD-K6DNB2B/I	CB432N26700	GWH24ALD-K6DNA1B/O	CB513W02200		
94	GWH24QD-K6DNC4B	CB444013600	GWH24QD-K6DNC4B/I	CB444N13600				
95	GWH24QDXE-K6DND8B	CB459009501	GWH24QDXE-K6DND8B/I	CB459N09501				

## 2.1 Specification Sheet

Model			GWH07QA-K6DNC4A
Product Code			CB444013200
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	2200
Heating Capacity		W	2300
Cooling Power Input		W	600
Heating Power Input		W	590
Cooling Current Input		A	2.9
Heating Current Input		A	2.9
Rated Input		W	1500
Rated Cooling Current		A	6.0
Rated Heating Current		A	7.5
Air Flow Volume		m <sup>3</sup> /h	500/420/390/300
Dehumidifying Volume		L/h	0.80
EER		W/W	3.67
COP		W/W	3.90
SEER		--	6.5
SCOP (Warmer/Average/Colder)		--	5.1/4.0/-
Application Area		m <sup>2</sup>	12-18
Indoor Unit	Model		GWH07QA-K6DNC4A/I
	Product Code		CB444N13200
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98X507
	Cooling Speed	r/min	1300/1200/1000/800
	Heating Speed	r/min	1300/1200/1000/800
	Fan Motor Power Output	W	10
	Fan Motor RLA	A	0.2
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.5
	Evaporator Coil Length (LXDXW)	mm	510X22.8X266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:39/36/32/25 Heating:39/36/33/26
	Sound Power Level	dB (A)	Cooling:55/48/44/37 Heating:49/48/45/38
	Dimension (WXHxD)	mm	713X270X195
	Dimension of Carton Box (LXWXH)	mm	760X334X259
Dimension of Package (LXWXH)	mm	763X350X270	
Net Weight	kg	8	
Gross Weight	kg	9.5	

Outdoor Unit	Outdoor Unit Model		GWH07QA-K6DNC4A/O
	Outdoor Unit Product Code		CB444W13200
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN075ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.00
	Compressor Power Input	W	633
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-
Sound Power Level (H/M/L)	dB (A)	62/-/-	
Dimension(WXHXD)	mm	732X550X330	
Dimension of Carton Box (LXWXH)	mm	789X390X600	
Dimension of Package(LXWXH)	mm	792X393X615	
Net Weight	kg	25	
Gross Weight	kg	27.5	
Refrigerant		R32	
Refrigerant Charge	kg	0.5	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.



Model			GWH07QA-K6DNB2D GWH07QAXA-K6DND8D
Product Code			CB432027200 CB459010800
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	2200
Heating Capacity		W	2400
Cooling Power Input		W	590
Heating Power Input		W	590
Cooling Current Input		A	2.9
Heating Current Input		A	2.9
Rated Input		W	1300
Rated Cooling Current		A	5
Rated Heating Current		A	6
Air Flow Volume		m <sup>3</sup> /h	520/470/420/290
Dehumidifying Volume		L/h	0.6
EER		W/W	3.73
COP		W/W	4.07
SEER		W/W	6.6
SCOP(Average/WarmerColder)		W/W	4/4.8/-
Application Area		m <sup>2</sup>	10-16
Indoor Unit	Model		GWH07QAXA-K6DND8D/I GWH07QA-K6DNB2D/I
	Product Code		CB432N27200 CB459N10800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×507
	Cooling Speed	r/min	1300/1200/1000/800
	Heating Speed	r/min	1300/1200/1000/800
	Fan Motor Power Output	W	10
	Fan Motor RLA	A	0.15
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.5
	Evaporator Coil Length (LXDXW)	mm	510×22.8×266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:39/37/33/25 Heating:38/36/32/25
	Sound Power Level	dB (A)	Cooling:55/49/45/37 Heating:55/49/45/38
	Dimension (WXHXD)	mm	713X270X195
	Dimension of Carton Box (LXWXH)	mm	760X334X259
Dimension of Package (LXWXH)	mm	763X350X270	
Net Weight	kg	8	
Gross Weight	kg	9.5	



Model			1.GWH09QA-K6DNB4A 2.GWH09QA-K6DNB2A 3.GWH09QA-K6DNB8A 4.GWH09QA-K6DNC4A 5.GWH09QA-K6DNC2A 6.GWH09QA-K6DNE4A
Product Code			1.CB434020401/CB434020402 2.CB432025401/CB432025402 3.CB438012600 4.CB444013800 5.CB439018200 6.CB470008100
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	2500
Heating Capacity		W	2800
Cooling Power Input		W	720
Heating Power Input		W	750
Cooling Current Input		A	3.2
Heating Current Input		A	3.2
Rated Input		W	1500
Rated Cooling Current		A	6
Rated Heating Current		A	7.5
Air Flow Volume		m <sup>3</sup> /h	500/420/390/300
Dehumidifying Volume		L/h	0.80
EER		W/W	3.47
COP		W/W	3.73
SEER		--	6.5
SCOP (Warmer/Average/Colder)		--	5.1/4.1/-
Application Area		m <sup>2</sup>	12-18
Indoor Unit	Model		1.GWH09QA-K6DNB4A/I 2.GWH09QA-K6DNB2A/I 3.GWH09QA-K6DNB8A/I 4.GWH09QA-K6DNC4A/I 5.GWH09QA-K6DNC2A/I 6.GWH09QA-K6DNE4A/I
	Product Code		1.CB434N20401/CB434N20402 2.CB432N25401/CB432N25402 3.CB438N12600 4.CB444N13800 5.CB439N18200 6.CB470N08100
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98X507
	Cooling Speed	r/min	1300/1200/1000/800
	Heating Speed	r/min	1300/1200/1000/800
	Fan Motor Power Output	W	10
	Fan Motor RLA	A	0.2
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.5
	Evaporator Coil Length (LXDXW)	mm	510X22.8X266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:39/36/32/25 Heating:39/36/33/26
	Sound Power Level	dB (A)	Cooling:55/48/44/37 Heating:49/48/45/38
	Dimension (WXHxD)	mm	713X270X195
	Dimension of Carton Box (LXWXH)	mm	760X334X259
Dimension of Package (LXWXH)	mm	763X350X270	
Net Weight	kg	8	
Gross Weight	kg	9.5	

Outdoor Unit	Outdoor Unit Model		GWH09AGA-K6DNA1A/O
	Outdoor Unit Product Code		CB385W01000
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN075ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.00
	Compressor Power Input	W	633
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-
Sound Power Level (H/M/L)	dB (A)	62/-/-	
Dimension(WXHxD)	mm	732X550X330	
Dimension of Carton Box (LXWXH)	mm	789X390X600	
Dimension of Package(LXWXH)	mm	792X393X615	
Net Weight	kg	25	
Gross Weight	kg	27.5	
Refrigerant		R32	
Refrigerant Charge	kg	0.5	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			GWH09QB-K6DND8F
Product Code			CB459011500
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	2700
Heating Capacity		W	2800
Cooling Power Input		W	735
Heating Power Input		W	695
Cooling Current Input		A	3.51
Heating Current Input		A	3.32
Rated Input		W	1500
Rated Cooling Current		A	6
Rated Heating Current		A	7.5
Air Flow Volume		m <sup>3</sup> /h	550/520/400/280
Dehumidifying Volume		L/h	0.80
EER		W/W	3.67
COP		W/W	4.03
SEER		--	6.6
SCOP (Warmer/Average/Colder)		--	5.2 /4.2/-
Application Area		m <sup>2</sup>	10-16
Indoor Unit	Model		GWH09QB-K6DND8F/I
	Product Code		CB459N11500
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×580
	Cooling Speed	r/min	1350/1200/1050/750
	Heating Speed	r/min	1300/1200/1050/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.215
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:41/38/34/24 Heating:41/38/33/26
	Sound Power Level	dB (A)	Cooling:57/50/46/36 Heating:57/50/45/38
	Dimension (WXHXD)	mm	790×275×200
	Dimension of Carton Box (LXWXH)	mm	850×339×262
Dimension of Package (LXWXH)	mm	852×355×273	
Net Weight	kg	9	
Gross Weight	kg	11	

Outdoor Unit	Outdoor Unit Model		GWH09AGB-K6DNA1B/O
	Outdoor Unit Product Code		CB385W02300
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		FTz-AN075ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.00
	Compressor Power Input	W	633
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-
Sound Power Level (H/M/L)	dB (A)	62/-/-	
Dimension(WXHxD)	mm	732X550X330	
Dimension of Carton Box (LXWXH)	mm	789X390X600	
Dimension of Package(LXWXH)	mm	792X393X615	
Net Weight	kg	25	
Gross Weight	kg	27.5	
Refrigerant		R32	
Refrigerant Charge	kg	0.53	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			1.GWH12QB-K6DNB2A 2.GWH12QB-K6DNB4A 3.GWH12QB-K6DNB8A 4.GWH12QB-K6DNC4A 5.GWH12QB-K6DNC2A 6.GWH12QB-K6DNE4A 7.GWH12QB-K6DND8A
Product Code			1.CB432025502/CB432025503 2.CB434020501 3.CB438012700 4.CB444013900 5.CB439018300 6.CB470008000 7.CB459010700
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	3200
Heating Capacity		W	3400
Cooling Power Input		W	991
Heating Power Input		W	916
Cooling Current Input		A	4.4
Heating Current Input		A	4
Rated Input		W	1500
Rated Cooling Current		A	6
Rated Heating Current		A	7.5
Air Flow Volume		m <sup>3</sup> /h	590/480/410/280
Dehumidifying Volume		L/h	1.4
EER		W/W	3.23
COP		W/W	3.71
SEER		--	6.1
SCOP (Warmer/Average/Colder)		--	5.1/4.0/-
Application Area		m <sup>2</sup>	15-22
Indoor Unit	Model		1.GWH12QB-K6DNB2A/I 2.GWH12QB-K6DNB4A/I 3.GWH12QB-K6DNB8A/I 4.GWH12QB-K6DNC4A/I 5.GWH12QB-K6DNC2A/I 6.GWH12QB-K6DNE4A/I 7.GWH12QB-K6DND8A/I
	Product Code		1.CB432N25502/CB432N25503 2.CB434N20501 3.CB438N12700 4.CB444N13900 5.CB439N18300 6.CB470N08000 7.CB459N10700
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98X580
	Cooling Speed	r/min	1350/1200/1050/750
	Heating Speed	r/min	1350/1200/1050/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584X22.8X266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:41/37/33/24 Heating:42/38/33/27
	Sound Power Level	dB (A)	Cooling:57/50/45/34 Heating:53/51/46/39
	Dimension (WXHxD)	mm	790X275X200
	Dimension of Carton Box (LXWXH)	mm	850X339X262
Dimension of Package (LXWXH)	mm	852X355X273	
Net Weight	kg	9	
Gross Weight	kg	11	

Outdoor Unit	Outdoor Unit Model		GWH12AGB-K6DNA1A/O
	Outdoor Unit Product Code		CB385W01700
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		FTz-AN088ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.60
	Compressor Power Input	W	758
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-
Sound Power Level (H/M/L)	dB (A)	64/-/-	
Dimension(WXHxD)	mm	732X550X330	
Dimension of Carton Box (LXWXH)	mm	789X390X600	
Dimension of Package(LXWXH)	mm	792X393X615	
Net Weight	kg	25	
Gross Weight	kg	27.5	
Refrigerant		R32	
Refrigerant Charge	kg	0.55	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter.		

The above data is subject to change without notice. Please refer to the nameplate of the unit.



Model			1.GWH09QC-K6DNB2F 2.GWH09QC-K6DNC4F 3.GWH09QC-K6DND2F
Product Code			1.CB432026000 2.CB444013400 3.CB461007700
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	2700
Heating Capacity		W	3000
Cooling Power Input		W	695
Heating Power Input		W	700
Cooling Current Input		A	3.1
Heating Current Input		A	3.2
Rated Input		W	1400
Rated Cooling Current		A	6
Rated Heating Current		A	6.2
Air Flow Volume		m <sup>3</sup> /h	610/570/540/470/440/420/390
Dehumidifying Volume		L/h	1.69
EER		W/W	3.88
COP		W/W	4.29
SEER		--	7.5
SCOP (Warmer/Average/Colder)		--	5.3/4.2/3.4
Application Area		m <sup>2</sup>	12-18
Indoor Unit	Model		1.GWH09QC-K6DNB2F/I 2.GWH09QC-K6DNC4F/I 3.GWH09QC-K6DND2F/I
	Product Code		1.CB432N26000 2.CB444N13400 3.CB461N07700
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98X633.5
	Cooling Speed	r/min	1200/1100/1050/950/900/850/800
	Heating Speed	r/min	1150/1100/1050/1000/950/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model		MP24EB/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/29/27/25 Heating:38/37/35/34/32/29/28
	Sound Power Level	dB (A)	Cooling:54/48/46/43/41/39/37 Heating:56/49/47/46/44/41/40
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	918X278/364
Dimension of Package (LXWXH)	mm	931X281X379	
Net Weight	kg	10.5	
Gross Weight	kg	12.5	

Outdoor Unit	Outdoor Unit Model		GWH09AFC-K6DNA2F/O(LC)
	Outdoor Unit Product Code		CB363W02900
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	15.00
	Compressor RLA	A	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
Sound Pressure Level (H/M/L)	dB (A)	50/-/-	
Sound Power Level (H/M/L)	dB (A)	61/-/-	
Dimension(WXHXD)	mm	732X555X330	
Dimension of Carton Box (LXWXH)	mm	791X373X583	
Dimension of Package(LXWXH)	mm	794X376X615	
Net Weight	kg	24.5	
Gross Weight	kg	27	
Refrigerant		R32	
Refrigerant Charge	kg	0.53	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model		1.GWH09QC-K6DNB2F 2.GWH09QC-K6DNB8F 3.GWH09QC-K6DNB4F 4.GWH09QC-K6DNA5F 5.GWH09QC-K6DND2F 6.GWH09QC-K6DNC6F 7.GWH09QC-K6DNB6F 8.GWH09QC-K6DND6F 9.GWH09QC-K6DNA2F	
Product Code		1.CB432026001 2.CB438014301 3.CB434022701 4.CB425018001 5.CB461007701/CB461007702/CB461007703/CB461007704 6.CB443010801 7.CB435014001 8.CB460011201 9.CB426008501	
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode		Outdoor	
Cooling Capacity		W	2700
Heating Capacity		W	3000
Cooling Power Input		W	695
Heating Power Input		W	700
Cooling Current Input		A	3.1
Heating Current Input		A	3.2
Rated Input		W	1400
Rated Cooling Current		A	6
Rated Heating Current		A	6.2
Air Flow Volume		m <sup>3</sup> /h	610/570/540/470/440/420/390
Dehumidifying Volume		L/h	1.69
EER		W/W	3.88
COP		W/W	4.29
SEER		--	7.5
SCOP (Warmer/Average/Colder)		--	5.3/4.2/3.4
Application Area		m <sup>2</sup>	12-18
Indoor Unit	Model	1.GWH09QC-K6DNB2F/I 2.GWH09QC-K6DNB8F/I 3.GWH09QC-K6DNB4F/I 4.GWH09QC-K6DNA5F/I 5.GWH09QC-K6DND2F/I 6.GWH09QC-K6DNC6F/I 7.GWH09QC-K6DNB6F/I 8.GWH09QC-K6DND6F/I 9.GWH09QC-K6DNA2F/I	
	Product Code	1.CB432N26001 2.CB438N14300 3.CB434N22700 4.CB425N18000 5.CB461N07701/CB461N07702/CB461N07703/CB461N07700 6.CB443N10800 7.CB435N14000 8.CB460N11200 9.CB426N08500	
	Fan Type	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ98X633.5
	Cooling Speed	r/min	1200/1100/1050/950/900/850/800
	Heating Speed	r/min	1150/1100/1050/1000/950/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model	MP24EB/MP24HF	
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/29/27/25 Heating:38/37/35/34/32/29/28
	Sound Power Level	dB (A)	Cooling:54/48/46/43/41/39/37 Heating:56/49/47/46/44/41/40
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
Dimension of Package (LXWXH)	mm	905X367X283	
Net Weight	kg	10.5	
Gross Weight	kg	12.5	

Outdoor Unit	Outdoor Unit Model		GWH09AFC-K6DNA2F/O(LCLH)
	Outdoor Unit Product Code		CB363W02901
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	15.00
	Compressor RLA	A	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	50/-/-
Sound Power Level (H/M/L)	dB (A)	61/-/-	
Dimension(WXHxD)	mm	732X555X330	
Dimension of Carton Box (LXWXH)	mm	791X373X583	
Dimension of Package(LXWXH)	mm	794X376X615	
Net Weight	kg	24.5	
Gross Weight	kg	27	
Refrigerant		R32	
Refrigerant Charge	kg	0.53	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			1.GWH12QC-K6DNB2F 2.GWH12QC-K6DNC4F 3.GWH12QC-K6DND2F 4.GWH12QCXB-K6DNB6F
Product Code			1.CB432026101 2.CB444013501 3.CB461007501 4.CB435016701
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	3510
Heating Capacity		W	3810
Cooling Power Input		W	962
Heating Power Input		W	953
Cooling Current Input		A	4.3
Heating Current Input		A	4.6
Rated Input		W	1550
Rated Cooling Current		A	6.2
Rated Heating Current		A	6.9
Air Flow Volume		m <sup>3</sup> /h	700/650/600/540/480/420/360
Dehumidifying Volume		L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER		--	7.1
SCOP (Warmer/Average/Colder)		--	5.2/4.1/3.1
Application Area		m <sup>2</sup>	16-24
Indoor Unit	Model		1.GWH12QC-K6DNB2F/I 2.GWH12QC-K6DNC4F/I 3.GWH12QC-K6DND2F/I 4.GWH12QCXB-K6DNB6F/I
	Product Code		1.CB432N26100 2.CB444N13500 3.CB461N07500 4.CB435N16700
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98X633.5
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/800
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model		MP24EB/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:42/38/35/32/29/27/25 Heating:42/38/36/34/32/30/28
	Sound Power Level	dB (A)	Cooling:57/50/47/44/41/39/37 Heating:52/48/46/44/42/40/38
	Dimension (WXHxD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
Dimension of Package (LXWXH)	mm	905X367X283	
Net Weight	kg	10.5	
Gross Weight	kg	12.5	

Outdoor Unit	Outdoor Unit Model		GWH12AFC-K6DNA2F/O(LC)
	Outdoor Unit Product Code		CB363W03601
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.40
	Compressor Power Input	W	/
	Compressor Overload Protector		/
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
Sound Pressure Level (H/M/L)	dB (A)	52/-/-	
Sound Power Level (H/M/L)	dB (A)	63/-/-	
Dimension(WXHXD)	mm	732X555X330	
Dimension of Carton Box (LXWXH)	mm	791X373X583	
Dimension of Package(LXWXH)	mm	794X376X598	
Net Weight	kg	24.5	
Gross Weight	kg	27	
Refrigerant		R32	
Refrigerant Charge	kg	0.57	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model		GWH12QC-K6DNA5F		
Product Code		CB425016200		
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode		Outdoor		
Cooling Capacity		W	3510	
Heating Capacity		W	3810	
Cooling Power Input		W	962	
Heating Power Input		W	953	
Cooling Current Input		A	4.3	
Heating Current Input		A	4.6	
Rated Input		W	1550	
Rated Cooling Current		A	6.2	
Rated Heating Current		A	6.9	
Air Flow Volume		m <sup>3</sup> /h	700/650/600/540/480/420/360	
Dehumidifying Volume		L/h	1.40	
EER		W/W	3.65	
COP		W/W	4.00	
SEER		--	7.1	
SCOP (Warmer/Average/Colder)		--	5.2/4.1/3.1	
Application Area		m <sup>2</sup>	16-24	
Indoor Unit	Model		GWH12QC-K6DNA5F/I	
	Product Code		CB425N16200	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)		mm	Φ98X633.5
	Cooling Speed		r/min	1350/1200/1100/1000/920/850/800
	Heating Speed		r/min	1300/1200/1120/1050/980/900/850
	Fan Motor Power Output		W	20
	Fan Motor RLA		A	0.31
	Fan Motor Capacitor		μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter		mm	Φ5
	Evaporator Row-fin Gap		mm	2-1.4
	Evaporator Coil Length (LXDXW)		mm	635X22.8X306.3
	Swing Motor Model		MP24EB/MP24HF	
	Swing Motor Power Output		W	1.5/1.5
	Fuse Current		A	3.15
	Sound Pressure Level		dB (A)	Cooling:42/38/35/32/29/26/25 Heating:42/38/36/34/32/30/28
	Sound Power Level		dB (A)	Cooling:57/50/47/44/41/38/37 Heating:52/48/46/44/42/40/38
	Dimension (WXHxD)		mm	845X289X209
	Dimension of Carton Box (LXWXH)		mm	900X351X272
Dimension of Package (LXWXH)		mm	905X367X283	
Net Weight		kg	11	
Gross Weight		kg	13	

Outdoor Unit	Outdoor Unit Model		GWH12AFC-K6DNA2F/O(LCLH)
	Outdoor Unit Product Code		CB363W03600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.40
	Compressor Power Input	W	/
	Compressor Overload Protector		/
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
Sound Pressure Level (H/M/L)	dB (A)	52/-/-	
Sound Power Level (H/M/L)	dB (A)	63/-/-	
Dimension(WXHXD)	mm	732X555X330	
Dimension of Carton Box (LXWXH)	mm	791X373X583	
Dimension of Package(LXWXH)	mm	794X376X598	
Net Weight	kg	24.5	
Gross Weight	kg	27	
Refrigerant		R32	
Refrigerant Charge	kg	0.57	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.



Model		1.GWH12QC-K6DNB2F 2.GWH12QC-K6DND2F 3.GWH12QC-K6DNB8F 4.GWH12QC-K6DNB4F 5.GWH12QC-K6DND2F 6.GWH12QC-K6DNA2F 7.GWH12QC-K6DNB6F 8.GWH12QC-K6DNC6F 9.GWH12QC-K6DND6F	
Product Code		1.CB432026102 2.CB461007502 3.CB438014100 4.CB434022500 5.CB461007504/CB461007503/CB461007500 6.CB426008700 7.CB435014100 8.CB443010900 9.CB460011400	
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode		Outdoor	
Cooling Capacity		W	3510
Heating Capacity		W	3810
Cooling Power Input		W	962
Heating Power Input		W	953
Cooling Current Input		A	4.3
Heating Current Input		A	4.6
Rated Input		W	1550
Rated Cooling Current		A	6.2
Rated Heating Current		A	6.9
Air Flow Volume		m <sup>3</sup> /h	700/650/600/540/480/420/360
Dehumidifying Volume		L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER		--	7.1
SCOP (Warmer/Average/Colder)		--	5.2/4.1/3.1
Application Area		m <sup>2</sup>	16-24
Indoor Unit	Model	1.GWH12QC-K6DNB2F/I 2.GWH12QC-K6DND2F/I 3.GWH12QC-K6DNB8F/I 4.GWH12QC-K6DNB4F/I 5.GWH12QC-K6DND2F/I 6.GWH12QC-K6DNA2F/I 7.GWH12QC-K6DNB6F/I 8.GWH12QC-K6DNC6F/I 9.GWH12QC-K6DND6F/I	
	Product Code	1.CB432N26102 2.CB461N07502 3.CB438N14100 4.CB434N22500 5.CB461N07504/CB461N07503/CB461N07500 6.CB426N08700 7.CB435N14100 8.CB443N10900 9.CB460N11400	
	Fan Type	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ98X633.5
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/800
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model	MP24EB/MP24HF	
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:42/38/35/32/29/26/25 Heating:42/38/36/34/32/30/28
	Sound Power Level	dB (A)	Cooling:57/50/47/44/41/38/37 Heating:52/48/46/44/42/40/38
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
Dimension of Package (LXWXH)	mm	905X367X283	
Net Weight	kg	10.5	
Gross Weight	kg	12.5	

Outdoor Unit	Outdoor Unit Model		GWH12AFC-K6DNA2F/O(LCLH)
	Outdoor Unit Product Code		CB363W03600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.40
	Compressor Power Input	W	/
	Compressor Overload Protector		/
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
Sound Pressure Level (H/M/L)	dB (A)	52/-/-	
Sound Power Level (H/M/L)	dB (A)	63/-/-	
Dimension(WXHXD)	mm	732X555X330	
Dimension of Carton Box (LXWXH)	mm	791X373X583	
Dimension of Package(LXWXH)	mm	794X376X598	
Net Weight	kg	24.5	
Gross Weight	kg	27	
Refrigerant		R32	
Refrigerant Charge	kg	0.57	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			1.GWH18QD-K6DNB2I 2.GWH18QD-K6DNC4I 3.GWH18QD-K6DND2I 4.GWH18QD-K6DNB6I	GWH18QD-K6DNA5I
Product Code			1.CB432026200/CB432026202 2.CB444013300 3.CB461007600 4.CB435014200	CB425016300
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity	W		5200	5200
Heating Capacity	W		5600	5600
Cooling Power Input	W		1576	1576
Heating Power Input	W		1436	1436
Cooling Current Input	A		7.1	7.1
Heating Current Input	A		6.3	6.3
Rated Input	W		2400	2400
Rated Cooling Current	A		10.5	10.5
Rated Heating Current	A		11	11
Air Flow Volume	m <sup>3</sup> /h		850/750/680/610/570/520/460	850/750/680/610/570/520/460
Dehumidifying Volume	L/h		1.90	1.90
EER	W/W		3.299	3.299
COP	W/W		3.9	3.9
SEER	--		7.1	7.1
SCOP (Warmer/Average/Colder)	--		5.7/4.2/3.4	5.7/4.2/3.4
Application Area	m <sup>2</sup>		23-34	23-34
Indoor Unit	Model		1.GWH18QD-K6DNB2I/I 2.GWH18QD-K6DNC4I/I 3.GWH18QD-K6DND2I/I 4.GWH18QD-K6DNB6I/I	GWH18QD-K6DNA5I/I
	Product Code		1.CB432N26200/CB432N26201 2.CB444N13300 3.CB461N07600 4.CB435N14200	CB425N16300
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106X706	Φ106X706
	Cooling Speed	r/min	1230/1170/1100/1020/960/880/800/550	1230/1170/1100/1020/960/880/800/550
	Heating Speed	r/min	1400/1270/1200/1130/1050/980/900	1400/1270/1200/1130/1050/980/900
	Fan Motor Power Output	W	45	45
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXD <sub>X</sub> W)	mm	715X25.4X304.8	715X25.4X304.8
	Swing Motor Model		MP35CJ/MP24HF	MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5	2.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33
	Sound Power Level	dB (A)	Cooling:60/56/54/51/49/47/43 Heating:60/58/55/53/51/49/46	Cooling:60/56/54/51/49/47/43 Heating:60/58/55/53/51/49/46
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1020X370X294	1020X370X294
Dimension of Package (LXWXH)	mm	1025X378X304	1025X378X304	
Net Weight	kg	13	13.5	
Gross Weight	kg	15.5	16	

Outdoor Unit	Outdoor Unit Model		GWH18AFD-K6DNA2I/O(LC)
	Outdoor Unit Product Code		CB363W04200
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A120zH170A
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	18.00
	Compressor RLA	A	5.00
	Compressor Power Input	W	1096
	Compressor Overload Protector		HPC115/95U1/KSD115°C
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	895X38.1X528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	2200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ420
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	56/-/-
Sound Power Level (H/M/L)	dB (A)	65/-/-	
Dimension(WXHxD)	mm	802X555X350	
Dimension of Carton Box (LXWXH)	mm	869X395X594	
Dimension of Package(LXWXH)	mm	872X398X620	
Net Weight	kg	30.5	
Gross Weight	kg	33	
Refrigerant		R32	
Refrigerant Charge	kg	0.82	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	1/2
	Max Distance Height	m	10
	Max Distance Length	m	25
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			GWH18QD-K6DNA5I	GWH18QD-K6DND2I
Product Code			CB425016301	CB461007602/CB461007605/ CB461007603
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity		W	5200	5200
Heating Capacity		W	5600	5600
Cooling Power Input		W	1576	1576
Heating Power Input		W	1436	1436
Cooling Current Input		A	7.1	7.1
Heating Current Input		A	6.3	6.3
Rated Input		W	2400	2400
Rated Cooling Current		A	10.5	10.5
Rated Heating Current		A	11	11
Air Flow Volume		m <sup>3</sup> /h	850/750/680/610/570/520/460	850/750/680/610/570/520/460
Dehumidifying Volume		L/h	1.90	1.90
EER		W/W	3.299	3.299
COP		W/W	3.9	3.9
SEER		--	7.1	7.1
SCOP (Warmer/Average/Colder)		--	5.7/4.2/3.4	5.7/4.2/3.4
Application Area		m <sup>2</sup>	23-34	23-34
Indoor Unit	Model		GWH18QD-K6DNA5I/I	GWH18QD-K6DND2I/I
	Product Code		CB425N16300	CB461N07602/CB461N07600/ CB461N07603
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106X706	Φ106X706
	Cooling Speed	r/min	1230/1170/1100/1020/960/880/800/550	1230/1170/1100/1020/960/880/800/550
	Heating Speed	r/min	1400/1270/1200/1130/1050/980/900	1400/1270/1200/1130/1050/980/900
	Fan Motor Power Output	W	45	45
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	715X25.4X304.8
	Swing Motor Model		MP35CJ/MP24HF	MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5	2.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33
	Sound Power Level	dB (A)	Cooling:60/56/54/51/49/47/43 Heating:60/58/55/53/51/49/46	Cooling:60/56/54/51/49/47/43 Heating:60/58/55/53/51/49/46
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1020X370X294	1020X370X294
Dimension of Package (LXWXH)	mm	1025X378X304	1025X378X304	
Net Weight	kg	13.5	13	
Gross Weight	kg	16	16	

Outdoor Unit	Outdoor Unit Model		GWH18AFD-K6DNA2I/O(LCLH)
	Outdoor Unit Product Code		CB363W04201
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A120zH170A
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	18.00
	Compressor RLA	A	5.00
	Compressor Power Input	W	1096
	Compressor Overload Protector		HPC115/95U1/KSD115°C
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	895X38.1X528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	2200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ420
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	56/-/-
Sound Power Level (H/M/L)	dB (A)	65/-/-	
Dimension(WXHxD)	mm	802X555X350	
Dimension of Carton Box (LXWXH)	mm	869X395X594	
Dimension of Package(LXWXH)	mm	872X398X620	
Net Weight	kg	30.5	
Gross Weight	kg	33	
Refrigerant		R32	
Refrigerant Charge	kg	0.82	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	1/2
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter.		

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			1.GWH18QD-K6DND2I 2.GWH18QD-K6DNB8I 3.GWH18QD-K6DNB2I 4.GWH18QD-K6DNB4I 5.GWH18QD-K6DND6I 6.GWH18QD-K6DNB6I 7.GWH18QD-K6DNC6I 8.GWH18QD-K6DNA2I
Product Code			1.CB461007601 2.CB438014001 3.CB432026201 4.CB434022401 5.CB460011501 6.CB435014201 7.CB443011001 8.CB426008801
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	5200
Heating Capacity		W	5600
Cooling Power Input		W	1576
Heating Power Input		W	1436
Cooling Current Input		A	7.1
Heating Current Input		A	6.3
Rated Input		W	2400
Rated Cooling Current		A	10.5
Rated Heating Current		A	11
Air Flow Volume		m <sup>3</sup> /h	850/750/680/610/570/520/460
Dehumidifying Volume		L/h	1.90
EER		W/W	3.299
COP		W/W	3.9
SEER		--	7.1
SCOP (Warmer/Average/Colder)		--	5.7/4.2/3.4
Application Area		m <sup>2</sup>	23-34
Indoor Unit	Model		1.GWH18QD-K6DND2I/I 2.GWH18QD-K6DNB8I/I 3.GWH18QD-K6DNB2I/I 4.GWH18QD-K6DNB4I/I 5.GWH18QD-K6DND6I/I 6.GWH18QD-K6DNB6I/I 7.GWH18QD-K6DNC6I/I 8.GWH18QD-K6DNA2I/I
	Product Code		1.CB461N07601 2.CB438N14000 3.CB432N26201 4.CB434N22400 5.CB460N11500 6.CB435N14200 7.CB443N11000 8.CB426N08800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106X706
	Cooling Speed	r/min	1230/1170/1100/1020/960/880/800/550
	Heating Speed	r/min	1400/1270/1200/1130/1050/980/900
	Fan Motor Power Output	W	45
	Fan Motor RLA	A	0.24
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8
	Swing Motor Model		MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33
	Sound Power Level	dB (A)	Cooling:60/56/54/51/49/47/43 Heating:60/58/55/53/51/49/46
	Dimension (WXHXD)	mm	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1020X370X294
Dimension of Package (LXWXH)	mm	1025X378X304	
Net Weight	kg	13	
Gross Weight	kg	15.5	

Outdoor Unit	Outdoor Unit Model		GWH18AFD-K6DNA2I/O(LCLH)	
	Outdoor Unit Product Code		CB363W04201	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		QXF-A120zH170A	
	Compressor Oil		FW68DA or equivalent	
	Compressor Type		Rotary	
	Compressor LRA.	A		18.00
	Compressor RLA	A		5.00
	Compressor Power Input	W		1096
	Compressor Overload Protector			HPC115/95U1/KSD115°C
	Throttling Method			Electron expansion valve
	Set Temperature Range	°C		16~30
	Cooling Operation Ambient Temperature Range	°C		-15~50
	Heating Operation Ambient Temperature Range	°C		-25~30
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		2-1.4
	Condenser Coil Length (LXDXW)	mm		895X38.1X528
	Fan Motor Speed	rpm		880
	Fan Motor Power Output	W		30
	Fan Motor RLA	A		0.40
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		2200
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ420
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		56/-/-
Sound Power Level (H/M/L)	dB (A)		65/-/-	
Dimension(WXHxD)	mm		802X555X350	
Dimension of Carton Box (LXWXH)	mm		869X395X594	
Dimension of Package(LXWXH)	mm		872X398X620	
Net Weight	kg		30.5	
Gross Weight	kg		33	
Refrigerant			R32	
Refrigerant Charge	kg		0.82	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	16	
	Outer Diameter Liquid Pipe	inch	1/4	
	Outer Diameter Gas Pipe	inch	1/2	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
	Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.



Model			GWH18QD-K6DNC4D	
Product Code			CB444012303	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode			Outdoor	
Cooling Capacity		W	5200	
Heating Capacity		W	5300	
Cooling Power Input		W	1528	
Heating Power Input		W	1410	
Cooling Current Input		A	6.78	
Heating Current Input		A	6.26	
Rated Input		W	2600	
Rated Cooling Current		A	6.78	
Rated Heating Current		A	11.5	
Air Flow Volume		m <sup>3</sup> /h	800/720/650/610/570/520/470	
Dehumidifying Volume		L/h	1.8	
EER		W/W	3.4	
COP		W/W	3.76	
SEER		--	7	
SCOP (Warmer/Average/Colder)		--	/	
Application Area		m <sup>2</sup>	23-34	
Indoor Unit	Model		GWH18QD-K6DNC4D/I	
	Product Code		CB444N12302	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)		mm	Φ106X706
	Cooling Speed		r/min	1230/1150/1080/980/900/850/800
	Heating Speed		r/min	1350/1250/1150/1050/980/900/850
	Fan Motor Power Output		W	35
	Fan Motor RLA		A	0.35
	Fan Motor Capacitor		μF	2.5
	Evaporator Form			Aluminum Fin-copper Tube
	Evaporator Pipe Diameter		mm	Φ7
	Evaporator Row-fin Gap		mm	2-1.4
	Evaporator Coil Length (LXDXW)		mm	715X25.4X304.8
	Swing Motor Model			MP35CJ/MP24HF
	Swing Motor Power Output		W	2.5/1.5
	Fuse Current		A	3.15
	Sound Pressure Level		dB (A)	Cooling:45/43/41/38/35/34/31 Heating:47/45/42/40/38/35/33
	Sound Power Level		dB (A)	Cooling:59/57/55/52/49/48/45 Heating:61/59/56/54/52/49/47
	Dimension (WXHXD)		mm	970X300X224
	Dimension of Carton Box (LXWXH)		mm	1038X380X305
Dimension of Package (LXWXH)		mm	1041X383X320	
Net Weight		kg	13.5	
Gross Weight		kg	16.5	

Outdoor Unit	Outdoor Unit Model		GWH18QD-K6DNA1D/O(LC)	
	Outdoor Unit Product Code		CB419W15601	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		QXF-B141ZF030F	
	Compressor Oil		FW68DA or equivalent	
	Compressor Type		Rotary	
	Compressor LRA.	A		25
	Compressor RLA	A		6.5
	Compressor Power Input	W		1410
	Compressor Overload Protector			HPC115/95U1 KSD115℃
	Throttling Method			Electron expansion valve
	Set Temperature Range	℃		16~30
	Cooling Operation Ambient Temperature Range	℃		-15~43
	Heating Operation Ambient Temperature Range	℃		-15~24
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		2-1.4
	Condenser Coil Length (LXDXW)	mm		851X38.1X660
	Fan Motor Speed	rpm		800
	Fan Motor Power Output	W		60
	Fan Motor RLA	A		0.4
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		3200
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ520
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		57/-/-
Sound Power Level (H/M/L)	dB (A)		64/-/-	
Dimension(WXHxD)	mm		965X700X396	
Dimension of Carton Box (LXWXH)	mm		1026X455X735	
Dimension of Package(LXWXH)	mm		1029X458X750	
Net Weight	kg		45	
Gross Weight	kg		49.5	
Refrigerant			R32	
Refrigerant Charge	kg		1	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	16	
	Outer Diameter Liquid Pipe	inch	Φ6	
	Outer Diameter Gas Pipe	inch	Φ12	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
	Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			1.GWH18QD-K6DNB2E 2.GWH18QD-K6DNC4A 3.GWH18QD-K6DNC2A	GWH18QD-K6DNE4A GWH18QDXB-K6DND8E
Product Code			1.CB432026600 2.CB444013700 3.CB439018400	CB470008300 CB459009602
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity		W	4600	4600
Heating Capacity		W	5200	5200
Cooling Power Input		W	1355	1355
Heating Power Input		W	1340	1340
Cooling Current Input		A	5.9	5.9
Heating Current Input		A	5.8	5.8
Rated Input		W	1900	1900
Rated Cooling Current		A	8	8
Rated Heating Current		A	9	9
Air Flow Volume		m <sup>3</sup> /h	850/800/700/600	850/800/700/600
Dehumidifying Volume		L/h	1.80	1.80
EER		W/W	3.39	3.39
COP		W/W	3.88	3.88
SEER		--	6.4	6.4
SCOP (Warmer/Average/Colder)		--	4.0	4.0
Application Area		m <sup>2</sup>	12-18	12-18
Indoor Unit	Model		1.GWH18QD-K6DNB2E/I 2.GWH18QD-K6DNC4A/I 3.GWH18QD-K6DNC2A/I	GWH18QD-K6DNE4A/I GWH18QDXB-K6DND8E/I
	Product Code		1.CB432N26600 2.CB444N13700 3.CB439N18400	CB470N08300 CB459N09602
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ 106×706	Φ 106×706
	Cooling Speed	r/min	1230/1170/1020/800	1230/1170/1020/800
	Heating Speed	r/min	1350/1270/1130/900	1350/1270/1130/900
	Fan Motor Power Output	W	35	35
	Fan Motor RLA	A	0.45	0.45
	Fan Motor Capacitor	μF	2.5	2.5
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715×25.4×304.8	715×25.4×304.8
	Swing Motor Model		MP35CJ	MP35CJ/MP24HF
	Swing Motor Power Output	W	1.5	1.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:44/42/38/34 Heating:48/46/41/37	Cooling:44/42/38/34 Heating:48/46/41/37
	Sound Power Level	dB (A)	Cooling:54/52/48/44 Heating:58/56/51/47	Cooling:54/52/48/44 Heating:58/56/51/47
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1038X380X305	1038X380X305
Dimension of Package (LXWXH)	mm	1041X383X320	1041X383X320	
Net Weight	kg	13.5	13.5	
Gross Weight	kg	16	16	

Outdoor Unit	Outdoor Unit Model		GWH18ALD-K6DNA1A/O	
	Outdoor Unit Product Code		CB513W01600	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		FTz-AN108ACBD	
	Compressor Oil		FW68DA or equivalent	
	Compressor Type		Rotary	
	Compressor LRA.	A		19
	Compressor RLA	A		4.4
	Compressor Power Input	W		952
	Compressor Overload Protector			/
	Throttling Method			Capillary
	Set Temperature Range	°C		16~30
	Cooling Operation Ambient Temperature Range	°C		-15~43
	Heating Operation Ambient Temperature Range	°C		-15~24
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		1-1.4
	Condenser Coil Length (LXDXW)	mm		700×38.1×528
	Fan Motor Speed	rpm		900
	Output of Fan Motor	W		30
	Fan Motor RLA	A		0.40
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		1950
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ400
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		55/-/-
Sound Power Level (H/M/L)	dB (A)		63/-/-	
Dimension(WXHXD)	mm		732X555X330	
Dimension of Carton Box (LXWXH)	mm		791X373X590	
Dimension of Package(LXWXH)	mm		794X376X615	
Net Weight	kg		26.5	
Gross Weight	kg		29	
Refrigerant			R32	
Refrigerant Charge	kg		0.75	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	16	
	Outer Diameter Liquid Pipe	inch	1/4	
	Outer Diameter Gas Pipe	inch	3/8	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
Note: The connection pipe applies metric diameter.				

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			GWH24QE-K6DNC4E	
Product Code			CB444009802	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode			Outdoor	
Cooling Capacity		W	7000	
Heating Capacity		W	7400	
Cooling Power Input		W	1900	
Heating Power Input		W	1897	
Cooling Current Input		A	8.73	
Heating Current Input		A	8.84	
Rated Input		W	3750	
Rated Cooling Current		A	8.73	
Rated Heating Current		A	17.5	
Air Flow Volume		m <sup>3</sup> /h	1250/1100/1000/950/900/850/750	
Dehumidifying Volume		L/h	2.4	
EER		W/W	3.68	
COP		W/W	3.90	
SEER		--	6.5	
SCOP (Warmer/Average/Colder)		--	/	
Application Area		m <sup>2</sup>	27-42	
Indoor Unit	Model		GWH24QE-K6DNC4E/I	
	Product Code		CB444N09802	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)		mm	Φ108X830
	Cooling Speed		r/min	1250/1150/1050/950/900/850/800
	Heating Speed		r/min	1250/1150/1050/1000/950/900/850
	Fan Motor Power Output		W	35
	Fan Motor RLA		A	0.35
	Fan Motor Capacitor		μF	3
	Evaporator Form			Aluminum Fin-copper Tube
	Evaporator Pipe Diameter		mm	Φ7
	Evaporator Row-fin Gap		mm	2-1.4
	Evaporator Coil Length (LXDXW)		mm	850X25.4X342.9
	Swing Motor Model			MP35CJ/MP24HF
	Swing Motor Power Output		W	2.5/1.5
	Fuse Current		A	3.15
	Sound Pressure Level		dB (A)	Cooling:48/45/42/39/37/36/33 Heating:47/45/42/40/39/37/35
	Sound Power Level		dB (A)	Cooling:58/55/52/49/47/46/43 Heating:62/60/57/55/54/52/50
	Dimension (WXHDXD)		mm	1078X325X246
	Dimension of Carton Box (LXWXH)		mm	1145X410X335
Dimension of Package (LXWXH)		mm	1148X413X350	
Net Weight		kg	16.5	
Gross Weight		kg	20	

Outdoor Unit	Outdoor Unit Model		GWH24QE-K6DNA1E/O(LC)	
	Outdoor Unit Product Code		CB419W15701	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		QXFS-D25zX090H	
	Compressor Oil		FW68DA	
	Compressor Type		Rotary	
	Compressor LRA.	A		24
	Compressor RLA	A		11.7
	Compressor Power Input	W		2420
	Compressor Overload Protector			HPC115/95U1/KSD115℃
	Throttling Method			Electron expansion valve
	Set Temperature Range	℃		16~30
	Cooling Operation Ambient Temperature Range	℃		-15~43
	Heating Operation Ambient Temperature Range	℃		-15~24
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		2-1.4
	Condenser Coil Length (LXDXW)	mm		935X38.1X660
	Fan Motor Speed	rpm		800
	Fan Motor Power Output	W		60
	Fan Motor RLA	A		0.58
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		3200
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ520
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		57/-/-
Sound Power Level (H/M/L)	dB (A)		67/-/-	
Dimension(WXHxD)	mm		965X700X396	
Dimension of Carton Box (LXWXH)	mm		1026X455X735	
Dimension of Package(LXWXH)	mm		1029X458X750	
Net Weight	kg		53.5	
Gross Weight	kg		58	
Refrigerant			R32	
Refrigerant Charge	kg		1.7	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	50	
	Outer Diameter Liquid Pipe	inch	1/4	
	Outer Diameter Gas Pipe	inch	5/8	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
	Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			GWH24QD-K6DNC4B GWH24QD-K6DNB2B	GWH24QD-K6DNC2B GWH24QDXE-K6DND8B
Product Code			CB444013600 CB432026700	CB439018500 CB459009501
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity		W	6200	6200
Heating Capacity		W	6500	6500
Cooling Power Input		W	1827	1827
Heating Power Input		W	1912	1912
Cooling Current Input		A	7.6	7.6
Heating Current Input		A	7.6	7.6
Rated Input		W	2300	2300
Rated Cooling Current		A	9.3	9.3
Rated Heating Current		A	10.2	10.2
Air Flow Volume		m <sup>3</sup> /h	900/800/600/400	900/800/600/400
Dehumidifying Volume		L/h	1.80	1.80
EER		W/W	3.40	3.40
COP		W/W	3.40	3.40
SEER		--	6.8	6.8
SCOP (Warmer/Average/Colder)		--	5.1/4.0/-	5.1/4.0/-
Application Area		m <sup>2</sup>	23-34	23-34
Indoor Unit	Model		GWH24QD-K6DNC4B/I GWH24QD-K6DNB2B/I	GWH24QD-K6DNC2B/I GWH24QDXE-K6DND8B/I
	Product Code		CB444N13600 CB432N26700	CB439N18500 CB459N09501
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106X739	Φ106X739
	Cooling Speed	r/min	1400/1300/1000/800	1400/1300/1000/800
	Heating Speed	r/min	1400/1270/1000/700	1400/1270/1000/700
	Fan Motor Power Output	W	50	50
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	715X25.4X304.8
	Swing Motor Model		MP35CJ	MP35CJ
	Swing Motor Power Output	W	2.5	2.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:48/45/37/30 Heating:48/45/37/26	Cooling:48/45/37/30 Heating:48/45/37/26
	Sound Power Level	dB (A)	Cooling:60/57/49/42 Heating:60/57/49/38	Cooling:60/57/49/42 Heating:60/57/49/38
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1038X380X305	1038X380X305
Dimension of Package (LXWXH)	mm	1041X383X320	1041X383X320	
Net Weight	kg	13.5	13	
Gross Weight	kg	15.5	15.5	

Outdoor Unit	Outdoor Unit Model		GWH24ALD-K6DNA1B/O
	Outdoor Unit Product Code		CB513W02200
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-SM151AXB
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA	A	/
	Compressor RLA	A	6.06
	Compressor Power Input	W	1330
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	848X38.1X528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	40
	Fan Motor RLA	A	0.70
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	2800
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ445
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	57/-/-
Sound Power Level (H/M/L)	dB (A)	65/-/-	
Dimension(WXHXD)	mm	873X555X376	
Dimension of Carton Box (LXWXH)	mm	948X428X591	
Dimension of Package(LXWXH)	mm	951X431X620	
Net Weight	kg	36.5	
Gross Weight	kg	39.5	
Refrigerant		R32	
Refrigerant Charge	kg	1.23	
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	1/2
	Max Distance Height	m	10
	Max Distance Length	m	25
Note: The connection pipe applies metric diameter.			

The above data is subject to change without notice. Please refer to the nameplate of the unit.



Model			GWH24QE-K6DNB2I GWH24QE-K6DND2K GWH24QE-K6DNB6K
Product Code			CB432026300 CB461007800 CB435016800
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	7100
Heating Capacity		W	7800
Cooling Power Input		W	2030
Heating Power Input		W	2000
Cooling Current Input		A	9
Heating Current Input		A	9.3
Rated Input		W	3000
Rated Cooling Current		A	13
Rated Heating Current		A	13.5
Air Flow Volume		m <sup>3</sup> /h	1250/1100/1000/950/900/850/800
Dehumidifying Volume		L/h	2.40
EER		W/W	3.50
COP		W/W	3.90
SEER		--	7
SCOP (Warmer/Average/Colder)		--	5.4/4.2/3.6
Application Area		m <sup>2</sup>	27-42
Indoor Unit	Model		GWH24QE-K6DNB2I/I GWH24QE-K6DND2K/I GWH24QE-K6DNB6K/I
	Product Code		CB432N26300 CB461N07800 CB435N16800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	108X830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/600
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.24
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	845X25.4X342.9
	Swing Motor Model		MP24HF/ MP35CJ
	Swing Motor Power Output	W	1.5/2.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50
	Dimension (WXHXD)	mm	1078X325X246
	Dimension of Carton Box (LXWXH)	mm	1145X410X335
	Dimension of Package (LXWXH)	mm	1148X413X350
Net Weight	kg	16	
Gross Weight	kg	19	

Outdoor Unit	Outdoor Unit Model		GWH24AFE-K6DNA2I/O(LC)	
	Outdoor Unit Product Code		CB363W04100	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		QXFS-M180zX170	
	Compressor Oil		FW68DA or equivalent	
	Compressor Type		Twin Rotary	
	Compressor LRA.	A		35.00
	Compressor RLA	A		3.50
	Compressor Power Input	W		1610
	Compressor Overload Protector			KSD115°C HPC 115/95U1
	Throttling Method			Electron expansion valve
	Set Temperature Range	°C		16~30
	Cooling Operation Ambient Temperature Range	°C		-15~50
	Heating Operation Ambient Temperature Range	°C		-15~30
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		2-1.4
	Condenser Coil Length (LXDXW)	mm		839X38.1X616
	Fan Motor Speed	rpm		800
	Fan Motor Power Output	W		60
	Fan Motor RLA	A		0.25
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		3600
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ520
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		59/-/-
Sound Power Level (H/M/L)	dB (A)		70/-/-	
Dimension(WXHXD)	mm		958X660X402	
Dimension of Carton Box (LXWXH)	mm		1029X453X715	
Dimension of Package(LXWXH)	mm		1032X456X737	
Net Weight	kg		41.5	
Gross Weight	kg		46	
Refrigerant			R32	
Refrigerant Charge	kg		1.5	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	40	
	Outer Diameter Liquid Pipe	inch	1/4	
	Outer Diameter Gas Pipe	inch	5/8	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
Note: The connection pipe applies metric diameter.				

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Model			1.GWH24QE-K6DNA5I 2.GWH24QE-K6DNB8I 3.GWH24QE-K6DNB2I 4.GWH24QE-K6DNB4I 5.GWH24QE-K6DNA2I 6.GWH24QE-K6DNC6I 7.GWH24QE-K6DNB6I 8.GWH24QE-K6DND6I
Product Code			1.CB425016401 2.CB438014201 3.CB432026301 4.CB434022601 5.CB426008601 6.CB443010701 7.CB435014301 8.CB460011301
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	7100
Heating Capacity		W	7800
Cooling Power Input		W	2030
Heating Power Input		W	2000
Cooling Current Input		A	9
Heating Current Input		A	9.3
Rated Input		W	3000
Rated Cooling Current		A	13
Rated Heating Current		A	13.5
Air Flow Volume		m <sup>3</sup> /h	1250/1100/1000/950/900/850/800
Dehumidifying Volume		L/h	2.40
EER		W/W	3.50
COP		W/W	3.90
SEER		--	7
SCOP (Warmer/Average/Colder)		--	5.4/4.2/3.4
Application Area		m <sup>2</sup>	27-42
Indoor Unit	Model		1.GWH24QE-K6DNA5I/I 2.GWH24QE-K6DNB8I/I 3.GWH24QE-K6DNB2I/I 4.GWH24QE-K6DNB4I/I 5.GWH24QE-K6DNA2I/I 6.GWH24QE-K6DNC6I/I 7.GWH24QE-K6DNB6I/I 8.GWH24QE-K6DND6I/I
	Product Code		1.CB425N16400 2.CB438N14200 3.CB432N26301 4.CB434N22600 5.CB426N08600 6.CB443N10700 7.CB435N14300 8.CB460N11300
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	108X830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.24
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	845X25.4X342.9
	Swing Motor Model		MP24HF/MP35CJ
	Swing Motor Power Output	W	1.5/2.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50
	Dimension (WXHxD)	mm	1078X325X246
	Dimension of Carton Box (LXWXH)	mm	1145X410X335
Dimension of Package (LXWXH)	mm	1148X413X350	
Net Weight	kg	16.5	
Gross Weight	kg	19.5	

Outdoor Unit	Outdoor Unit Model		GWH24AFE-K6DNA2I/O(LCLH)	
	Outdoor Unit Product Code		CB363W04101	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		QXFS-M180zX170	
	Compressor Oil		FW68DA or equivalent	
	Compressor Type		Twin Rotary	
	Compressor LRA.	A		35.00
	Compressor RLA	A		3.50
	Compressor Power Input	W		1610
	Compressor Overload Protector			KSD115°C HPC 115/95U1
	Throttling Method			Electron expansion valve
	Set Temperature Range	°C		16~30
	Cooling Operation Ambient Temperature Range	°C		-15~50
	Heating Operation Ambient Temperature Range	°C		-25~30
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		2-1.4
	Condenser Coil Length (LXDXW)	mm		839X38.1X616
	Fan Motor Speed	rpm		800
	Fan Motor Power Output	W		60
	Fan Motor RLA	A		0.65
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		3600
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ520
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		59/-/-
Sound Power Level (H/M/L)	dB (A)		70/-/-	
Dimension(WXHXD)	mm		958X660X402	
Dimension of Carton Box (LXWXH)	mm		1029X453X715	
Dimension of Package(LXWXH)	mm		1032X456X737	
Net Weight	kg		41.5	
Gross Weight	kg		46	
Refrigerant			R32	
Refrigerant Charge	kg		1.5	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	40	
	Outer Diameter Liquid Pipe	inch	1/4	
	Outer Diameter Gas Pipe	inch	5/8	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
Note: The connection pipe applies metric diameter.				

The above data is subject to change without notice. Please refer to the nameplate of the unit.

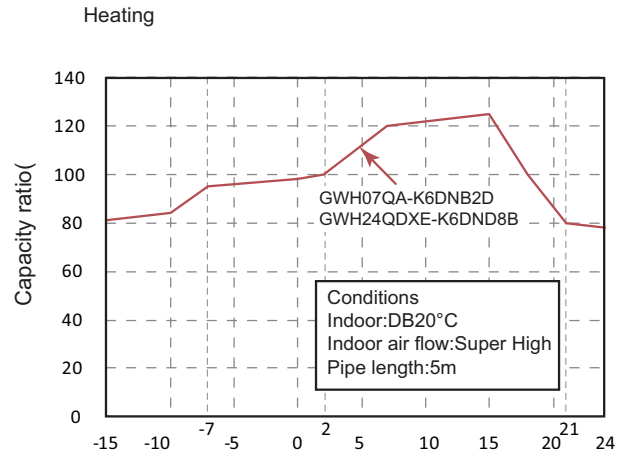
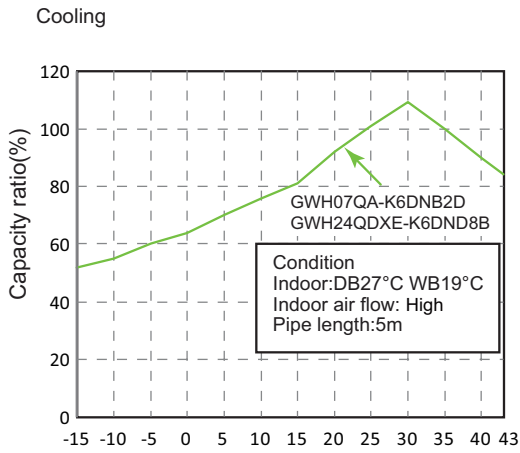
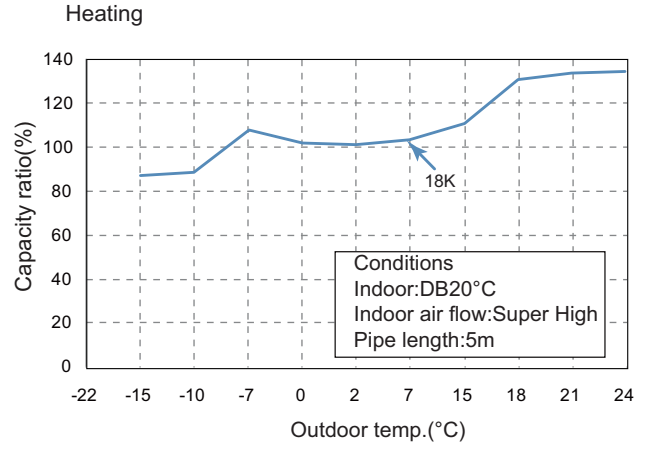
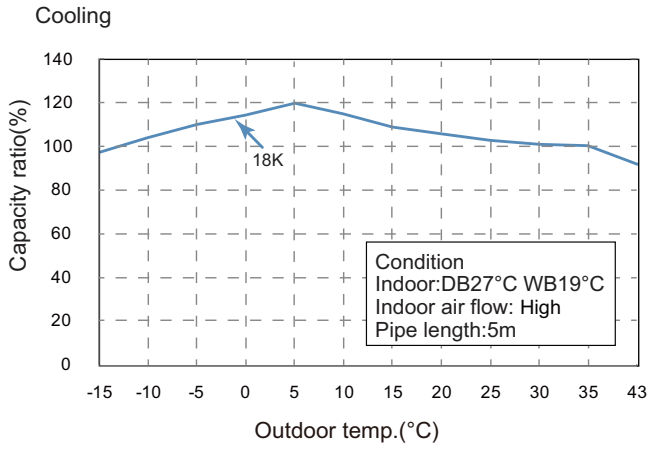
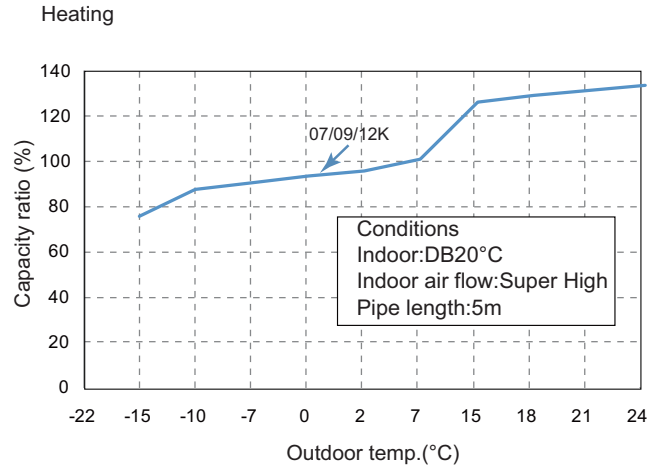
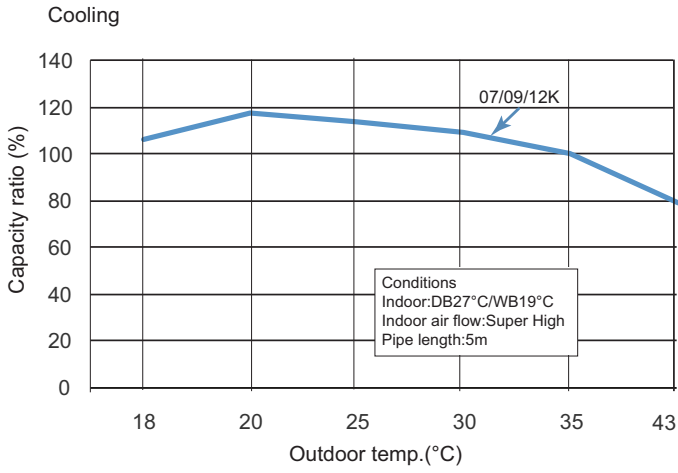
Model			GWH24QE-K6DND2K	GWH24QE-K6DND2K
Product Code			CB461007801	CB461007803/CB461007802/ CB461007804
Power Supply	Rated Voltage	V~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity		W	7100	7100
Heating Capacity		W	7800	7800
Cooling Power Input		W	2030	2030
Heating Power Input		W	2000	2000
Cooling Current Input		A	9	9
Heating Current Input		A	9.3	9.3
Rated Input		W	3000	3000
Rated Cooling Current		A	13	13
Rated Heating Current		A	13.5	13.5
Air Flow Volume		m <sup>3</sup> /h	1250/1100/1000/950/900/850/800	1250/1100/1000/950/900/850/800
Dehumidifying Volume		L/h	2.40	2.40
EER		W/W	3.50	3.50
COP		W/W	3.90	3.90
SEER		--	7	7
SCOP (Warmer/Average/Colder)		--	5.4/4.2/3.4	5.4/4.2/3.4
Application Area		m <sup>2</sup>	27-42	27-42
Indoor Unit	Model		GWH24QE-K6DND2K/I	GWH24QE-K6DND2K/I
	Product Code		CB461N07801	CB461N07803/CB461N07802/ CB461N07800
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	108X830	108X830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650	1250/1100/1000/950/900/850/800/650
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60	60
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	845X25.4X342.9	845X25.4X342.9
	Swing Motor Model		MP24HF/MP35CJ	MP24HF/MP35CJ
	Swing Motor Power Output	W	1.5/2.5	1.5/2.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50
	Dimension (WXHDXD)	mm	1078X325X246	1078X325X246
	Dimension of Carton Box (LXWXH)	mm	1145X410X335	1145X410X335
Dimension of Package (LXWXH)	mm	1148X413X350	1148X413X350	
Net Weight	kg	16.5	16	
Gross Weight	kg	19.5	19.5	

Outdoor Unit	Outdoor Unit Model		GWH24AFE-K6DNA2I/O(LCLH)	
	Outdoor Unit Product Code		CB363W04101	
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	
	Compressor Model		QXFS-M180zX170	
	Compressor Oil		FW68DA or equivalent	
	Compressor Type		Twin Rotary	
	Compressor LRA.	A		35.00
	Compressor RLA	A		3.50
	Compressor Power Input	W		1610
	Compressor Overload Protector			KSD115°C HPC 115/95U1
	Throttling Method			Electron expansion valve
	Set Temperature Range	°C		16~30
	Cooling Operation Ambient Temperature Range	°C		-15~50
	Heating Operation Ambient Temperature Range	°C		-25~30
	Condenser Form			Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm		Φ7
	Condenser Rows-fin Gap	mm		2-1.4
	Condenser Coil Length (LXDXW)	mm		839X38.1X616
	Fan Motor Speed	rpm		800
	Fan Motor Power Output	W		60
	Fan Motor RLA	A		0.65
	Fan Motor Capacitor	μF		/
	Heater Power Input	W		/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h		3600
	Fan Type			Axial-flow
	Fan Diameter	mm		Φ520
	Defrosting Method			Automatic Defrosting
	Climate Type			T1
	Isolation			I
	Moisture Protection			IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa		4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa		2.5
	Sound Pressure Level (H/M/L)	dB (A)		59/-/-
Sound Power Level (H/M/L)	dB (A)		70/-/-	
Dimension(WXHXD)	mm		958X660X402	
Dimension of Carton Box (LXWXH)	mm		1029X453X715	
Dimension of Package(LXWXH)	mm		1032X456X737	
Net Weight	kg		41.5	
Gross Weight	kg		46	
Refrigerant			R32	
Refrigerant Charge	kg		1.5	
Connection Pipe	Connection Pipe Length	m	5	
	Connection Pipe Gas Additional Charge	g/m	40	
	Outer Diameter Liquid Pipe	inch	1/4	
	Outer Diameter Gas Pipe	inch	5/8	
	Max Distance Height	m	10	
	Max Distance Length	m	25	
Note: The connection pipe applies metric diameter.				

The above data is subject to change without notice. Please refer to the nameplate of the unit.



Heating operation ambient temperature range is -15°C~24°C





## 2.3 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit
Indoor	Outdoor			T1 (°C)	T2 (°C)		
27/19	35/24	07/09K(QA/QB)	0.8 to 1.1	12 to 15	65 to 38	TURBO	High
27/19	35/24	09K(QC)	0.8 to 1.1	12 to 15	65 to 38	Super High	High
27/19	35/24	12K(QB)	0.8 to 1.1	11 to 14	64 to 37	TURBO	High
27/19	35/24	12K(QC)	0.9 to 1.1	12 to 14	75 to 37	Super High	High
27/19	35/24	18K(QD)/24K(QE)	0.9 to 1.1	12 to 14	75 to 37	Super High	High
27/19	35/24	24K(QD)	0.8 to 1.1	10 to 12	72 to 40	TURBO	High

Heating:

Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit
Indoor	Outdoor			T1 (°C)	T2 (°C)		
20/-	7/6	07/09K(QA/QB)	2.8 to 3.2	35 to 63	2 to 5	TURBO	High
20/-	7/6	09K(QC)	2.8 to 3.2	35 to 63	2 to 5	Super High	High
20/-	7/6	12K(QB)	2.8 to 3.2	35 to 65	2 to 5	TURBO	High
20/-	7/6	12K(QC)	2.2 to 2.4	70 to 35	2 to 4	Super High	High
20/-	7/6	18K(QD)/24K(QE)	2.2 to 2.4	70 to 35	2 to 4	Super High	High
20/-	7/6	24K(QD)	2.2 to 2.4	70 to 40	1 to 5	TURBO	High

### Instruction:

T1: Inlet and outlet pipe temperature of evaporator

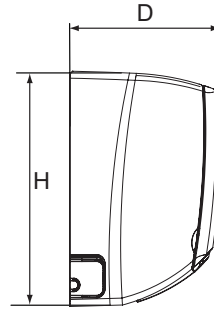
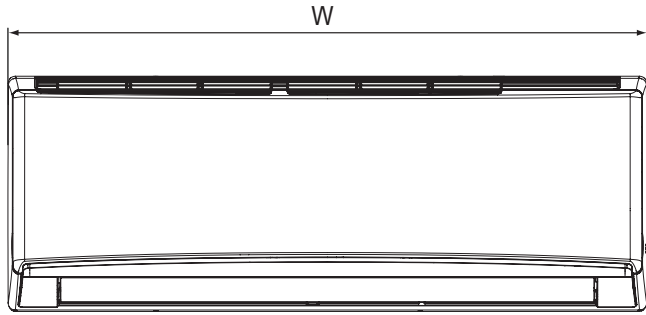
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

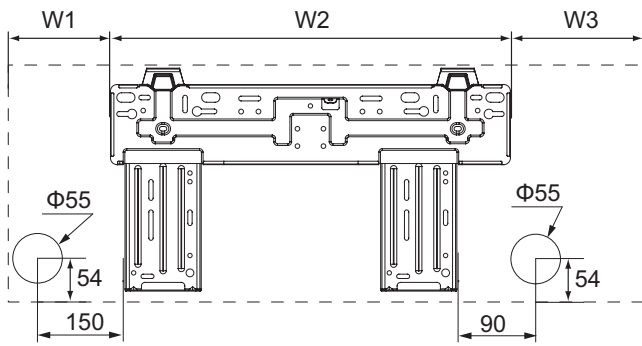
Connection pipe length: 5 m.

# 3. Outline Dimension Diagram

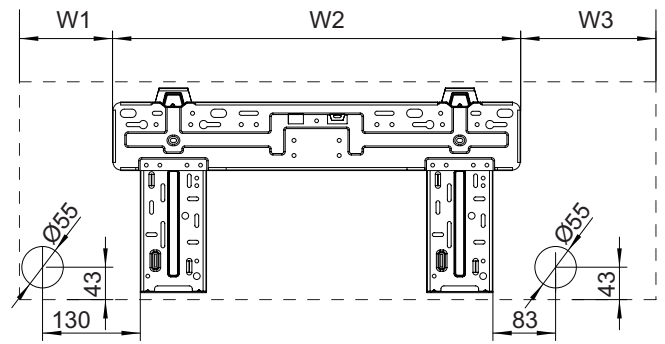
## 3.1 Indoor Unit



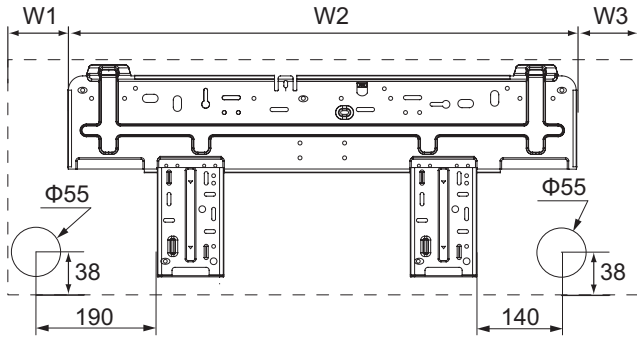
QA/QB



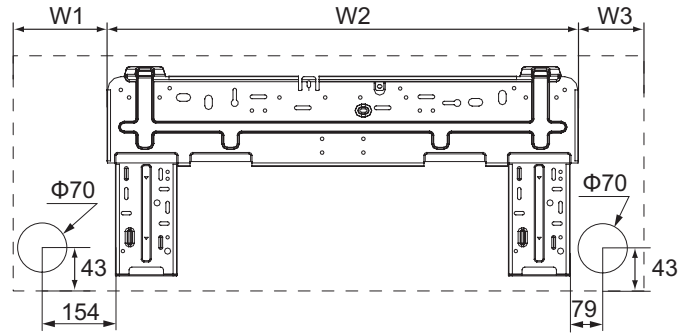
QC



QD



QE

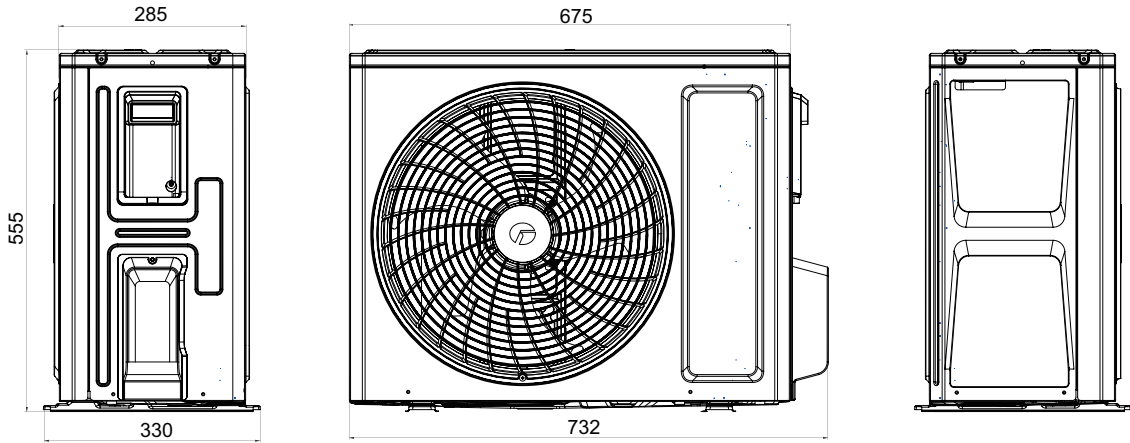


Unit:mm

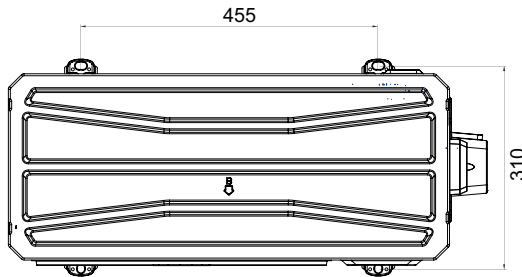
Model	W	H	D	W1	W2	W3
QA	713	270	195	148	462	103
QB	790	275	200	168.5	462	159.5
QC	845	289	209	123	542	180
QD	970	300	224	104	685	181
QE	1078	325	246	206	685	187

## 3.2 Outdoor Unit

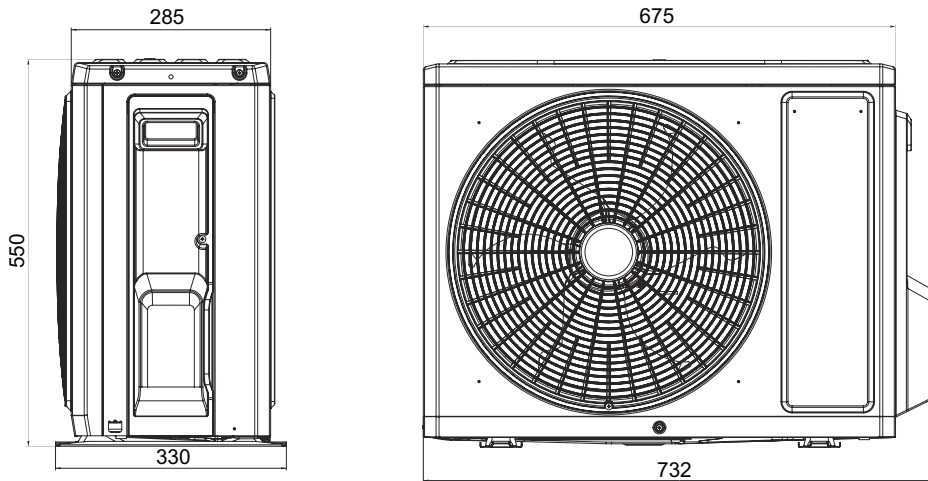
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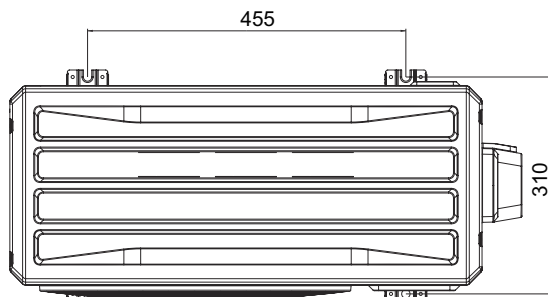
Unit:mm



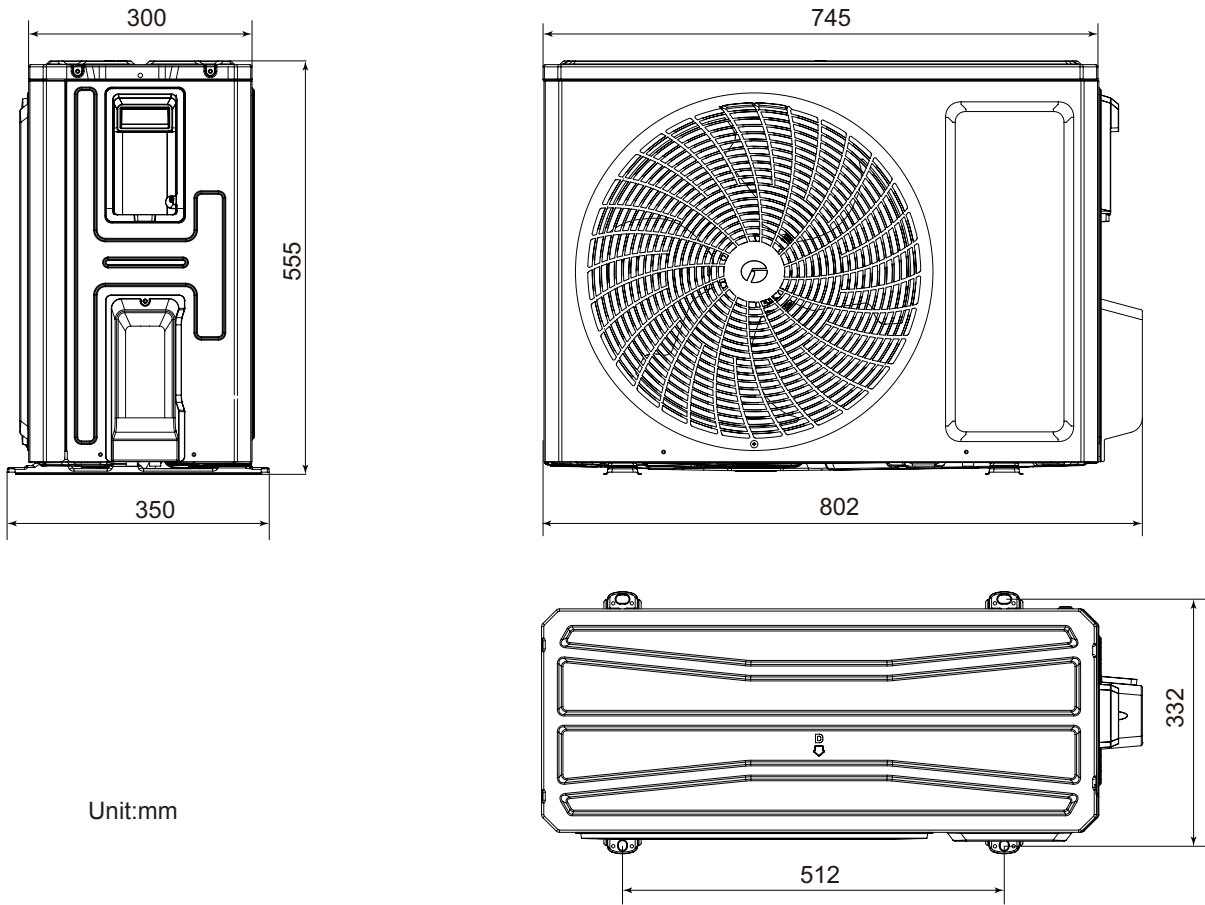
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Unit:mm

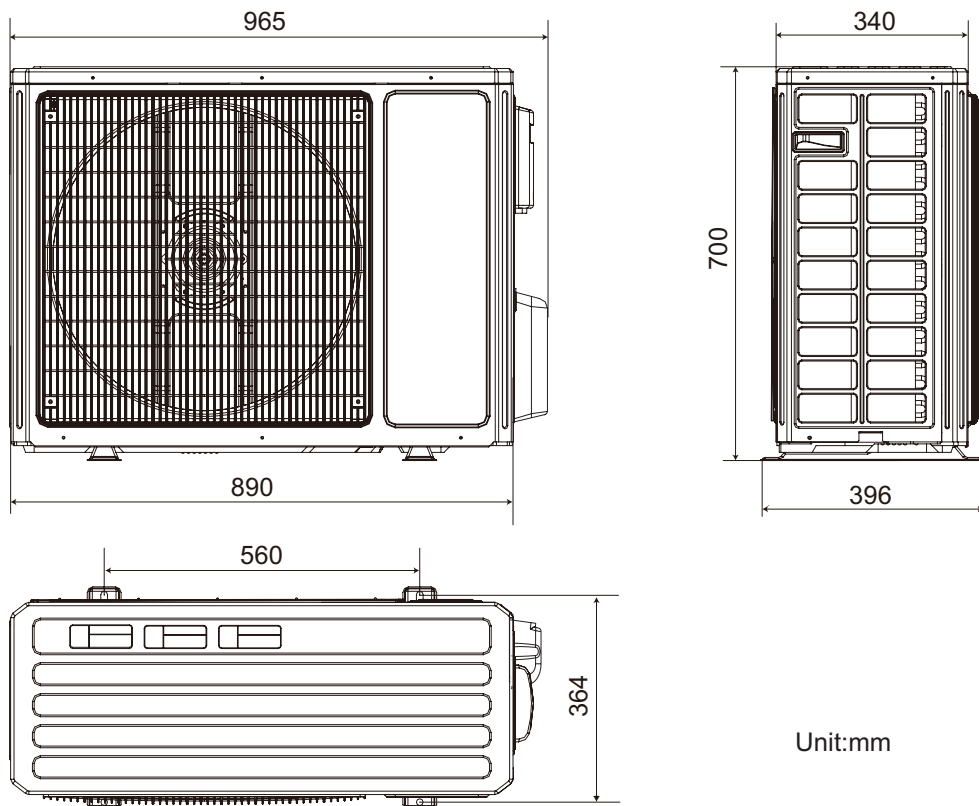


GWH18AFD-K6DNA2I/O



Unit:mm

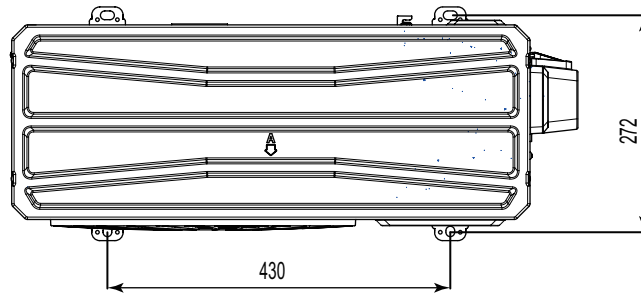
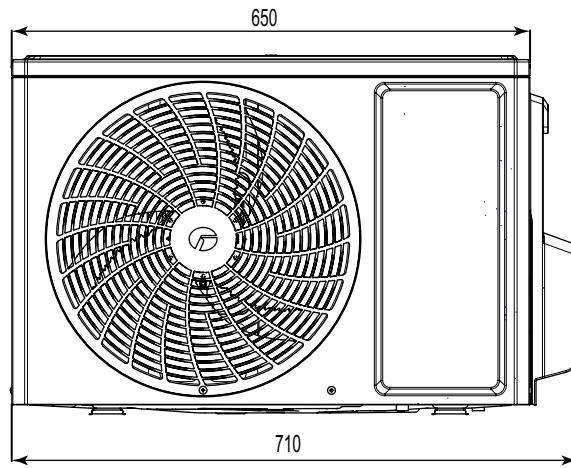
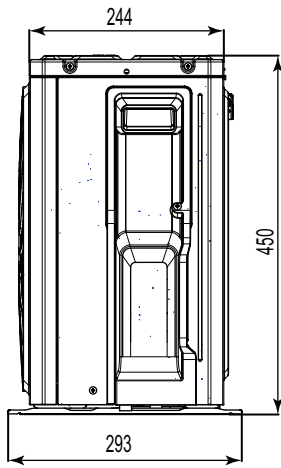
GWH18QD-K6DNA1D/O GWH24QE-K6DNA1E/O



Unit:mm



GWH07AGA-K6DNA1A/O



Unit:mm



# 5. Electrical Part

## 5.1 Wiring Diagram

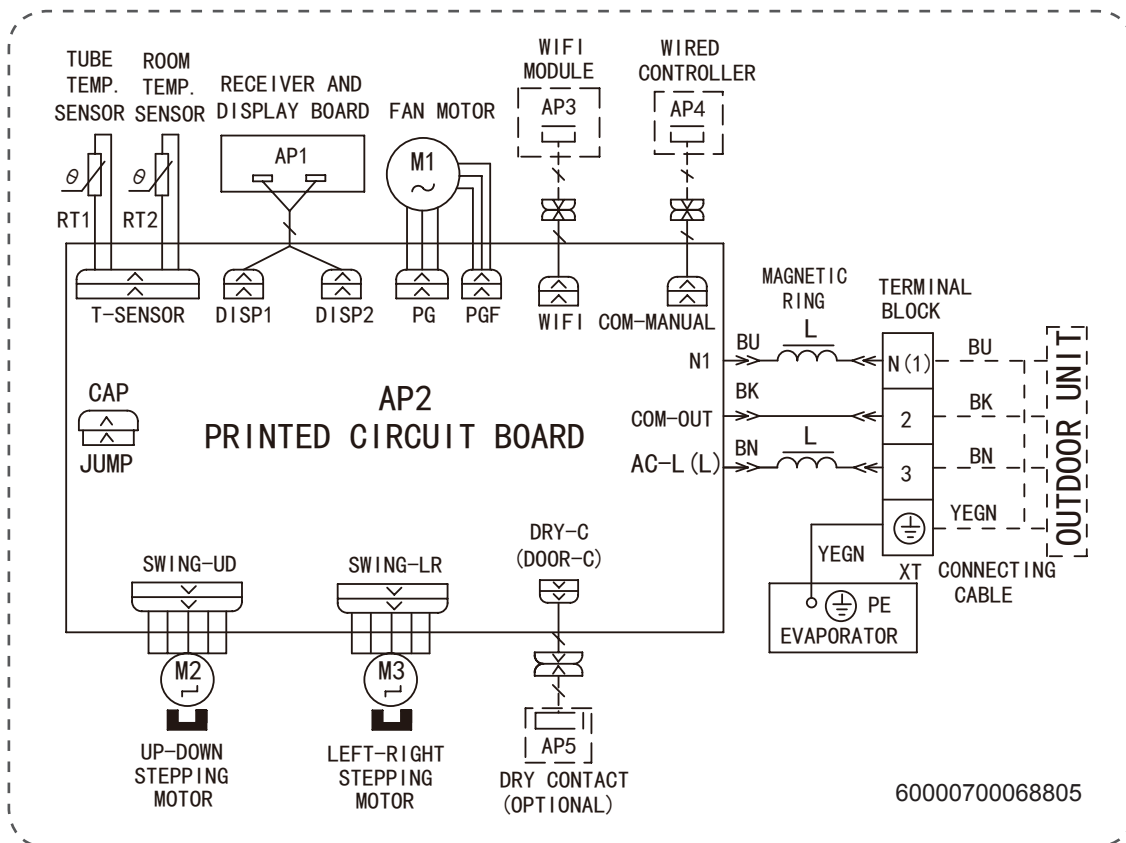
### • Instruction

Symbol	Symbol Color	Symbol	Symbol Color	Symbol	Name
WH	White	GN	Green	CAP	Jumper cap
YE	Yellow	BN	Brown	COMP	Compressor
RD	Red	BU	Blue		Grounding wire
YEGN	Yellow/Green	BK	Black	/	/
VT	Violet	OG	Orange	/	/

Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lever for this model.

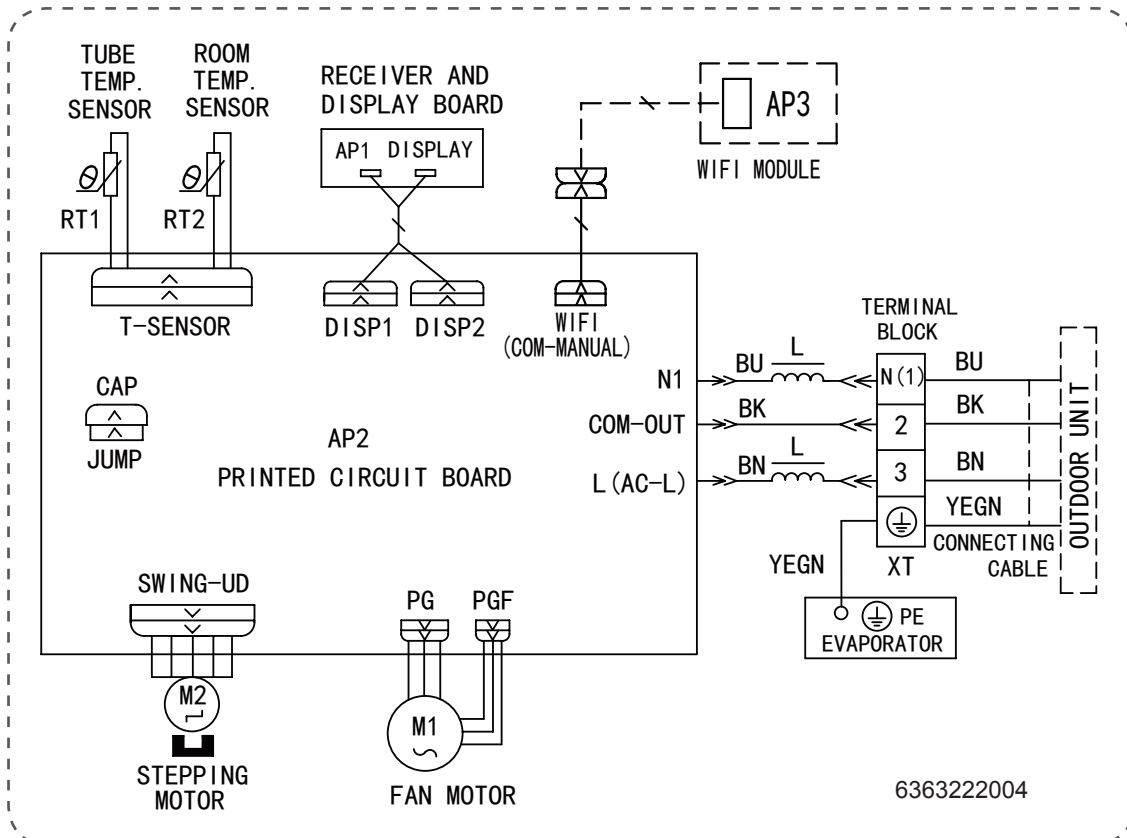
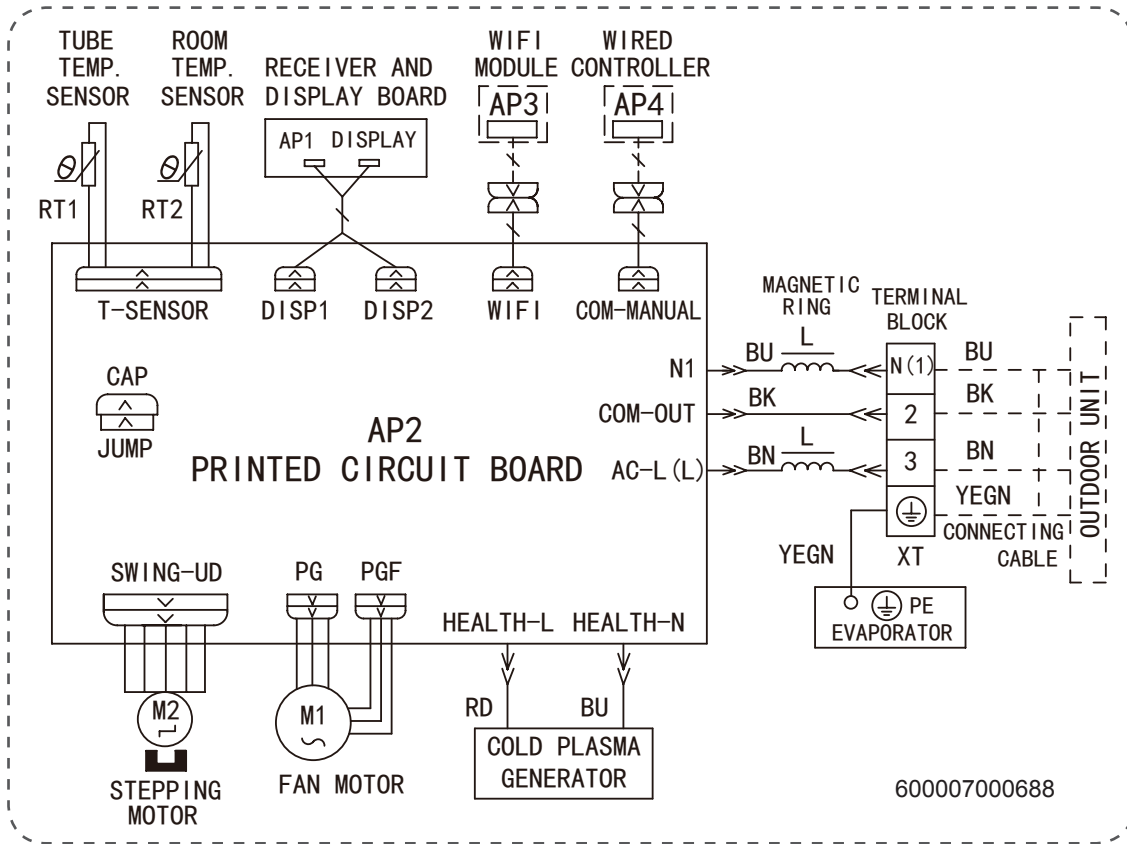
### • Indoor Unit

GWH09QC-K6DNB2F/I GWH12QC-K6DNB2F/I

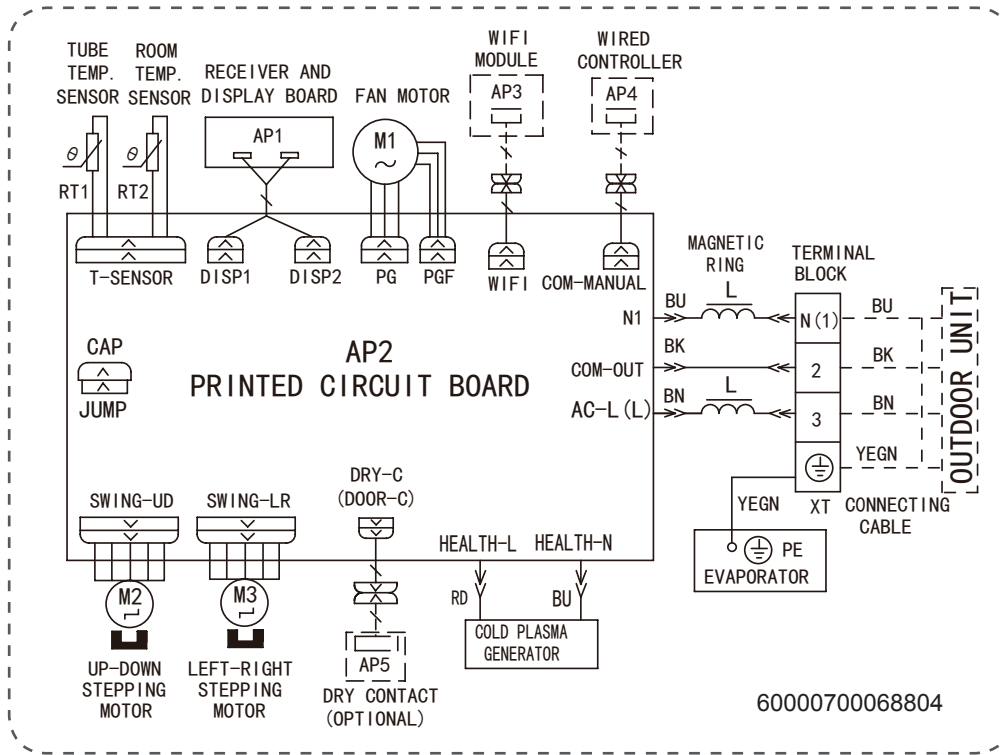




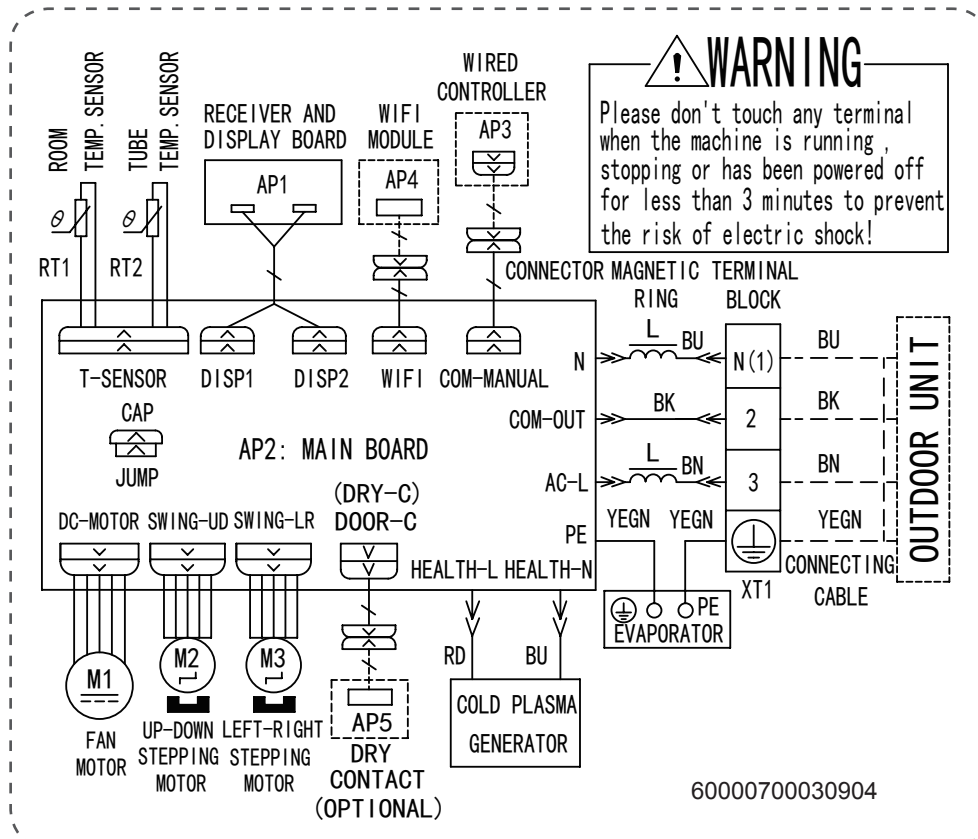


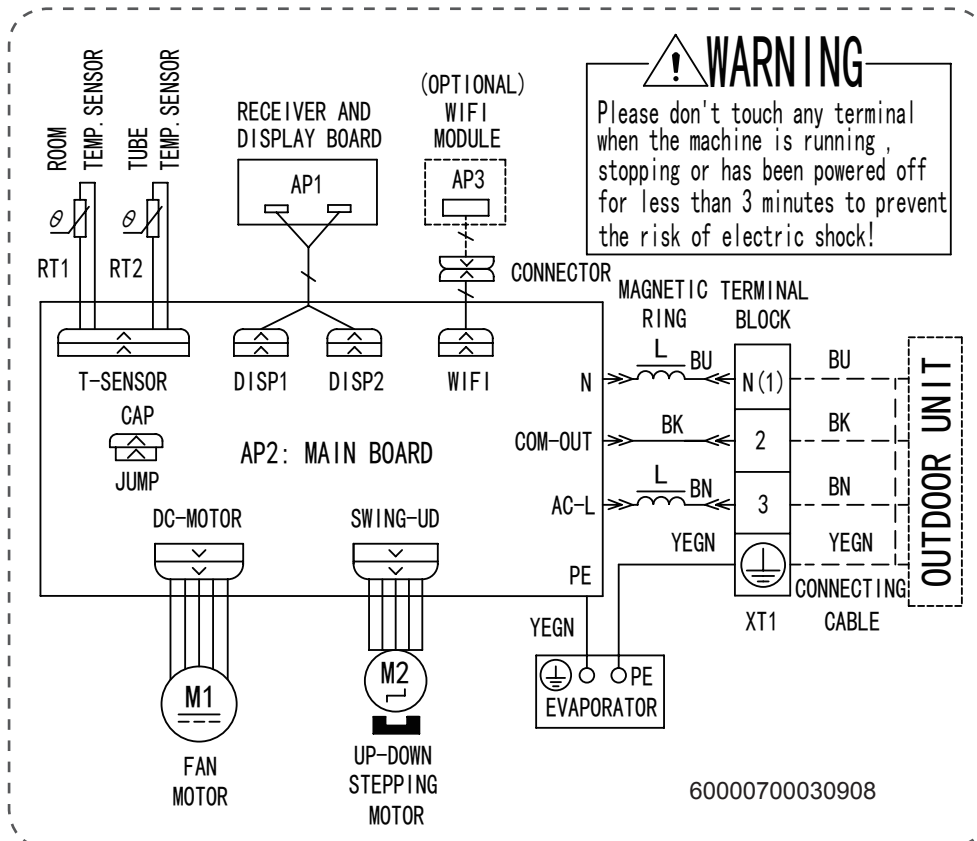
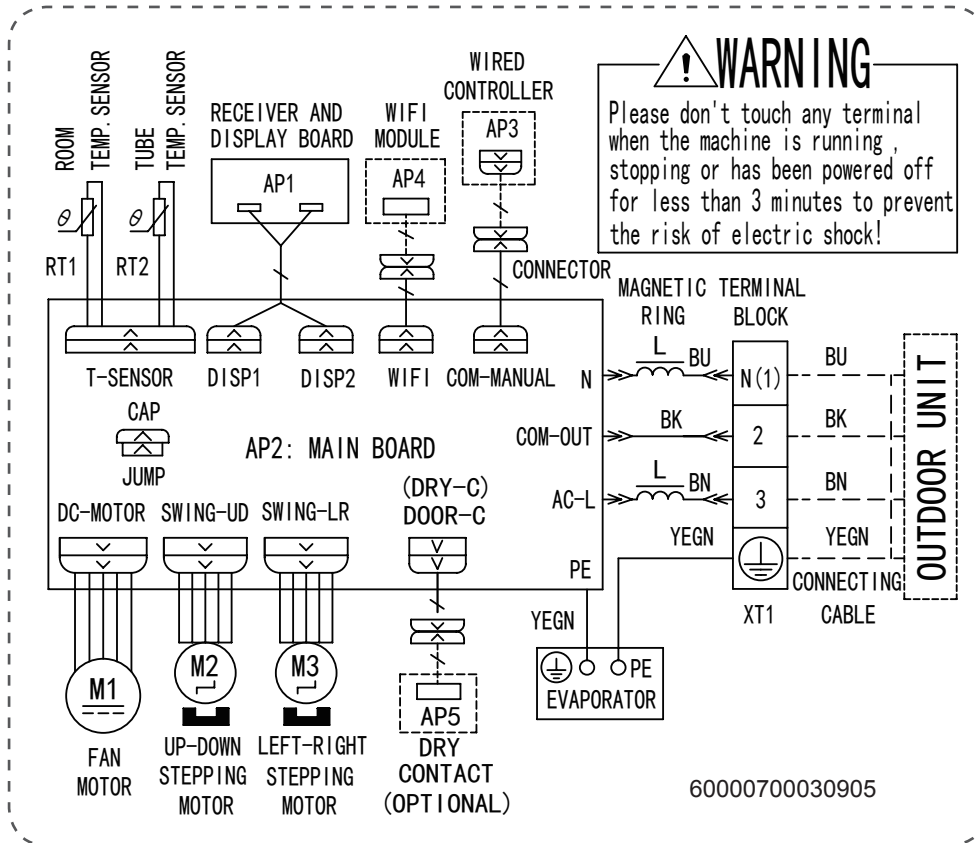


GWH09QC-K6DNC4F/I GWH12QC-K6DNA5F/I GWH12QC-K6DNC4F/I GWH18QD-K6DNC4D/I GWH24QE-K6DNC4E/I  
 GWH09QC-K6DND2F/I GWH12QC-K6DNB2F/I GWH12QC-K6DND2F/I GWH09QC-K6DNB2F/I GWH09QC-K6DNB8F/I  
 GWH09QC-K6DNB4F/I GWH09QC-K6DNA5F/I GWH09QC-K6DND2F/I GWH09QC-K6DNC6F/I GWH09QC-K6DNB6F/I  
 GWH09QC-K6DND6F/I GWH09QC-K6DNA2F/I GWH12QC-K6DNB8F/I GWH12QC-K6DNB4F/I GWH12QC-K6DND2F/I  
 GWH12QC-K6DNA2F/I GWH12QC-K6DNB6F/I GWH12QC-K6DNC6F/I GWH12QC-K6DND6F/I GWH12QCXB-K6DNB6F/I

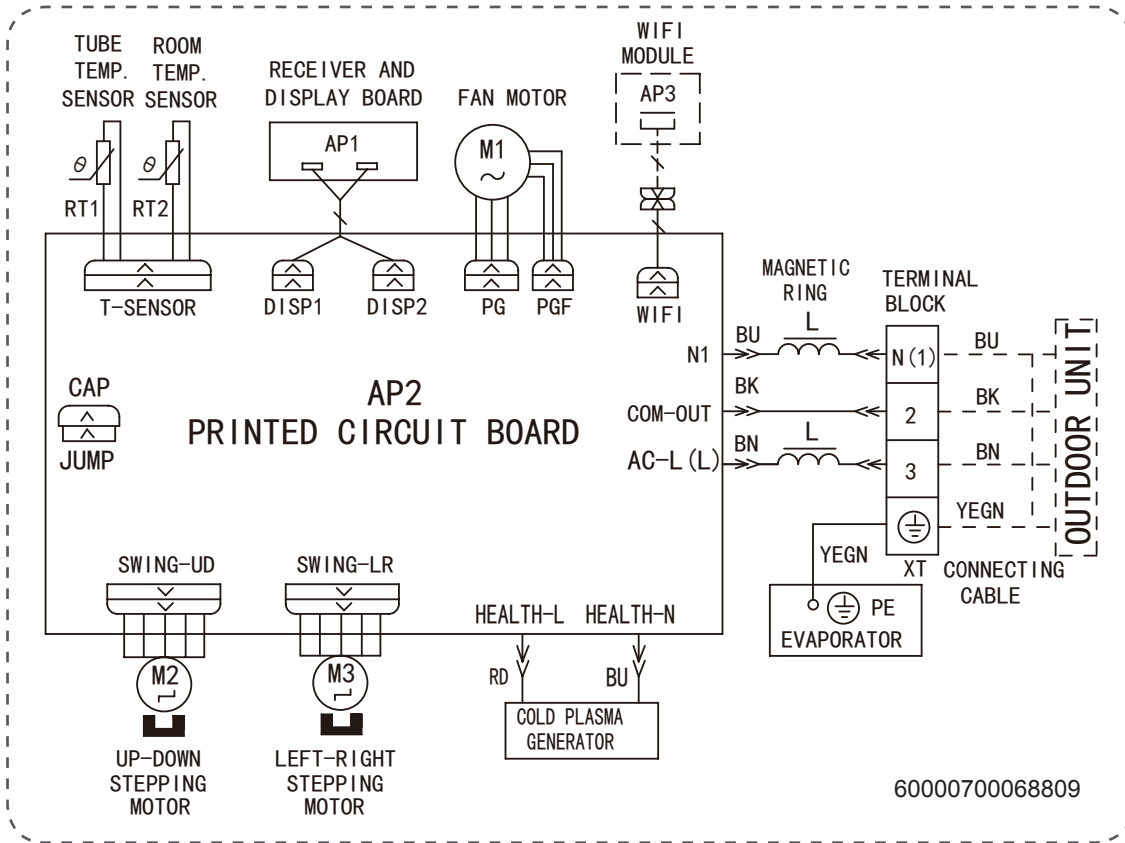


GWH18QD-K6DNA5I/I GWH18QD-K6DNC4I/I GWH18QD-K6DND2I/I GWH24QE-K6DNA5I/I GWH24QE-K6DND2K/I  
 GWH18QD-K6DNB8I/I GWH18QD-K6DNB2I/I GWH18QD-K6DNB4I/I GWH18QD-K6DND6I/I GWH18QD-K6DNB6I/I  
 GWH18QD-K6DNC6I/I GWH18QD-K6DNA2I/I GWH24QE-K6DNB8I/I GWH24QE-K6DNB2I/I GWH24QE-K6DNB2I/I  
 GWH24QE-K6DNA2I/I GWH24QE-K6DNC6I/I GWH24QE-K6DNB6I/I GWH24QE-K6DND6I/I GWH24QE-K6DNB6K/I



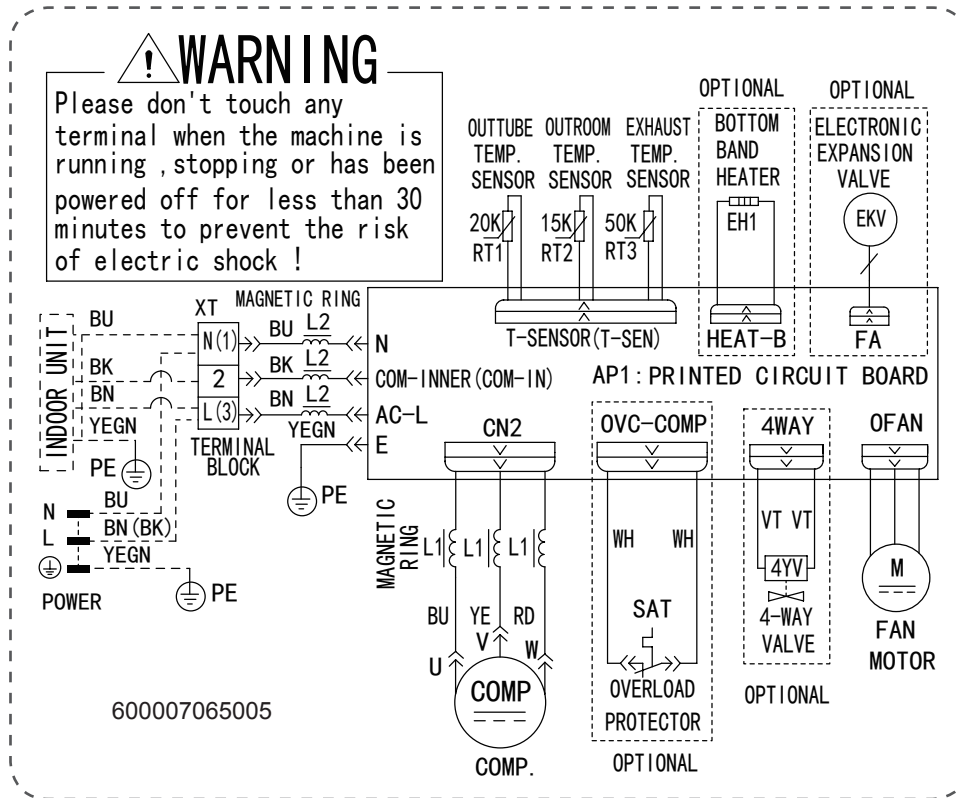




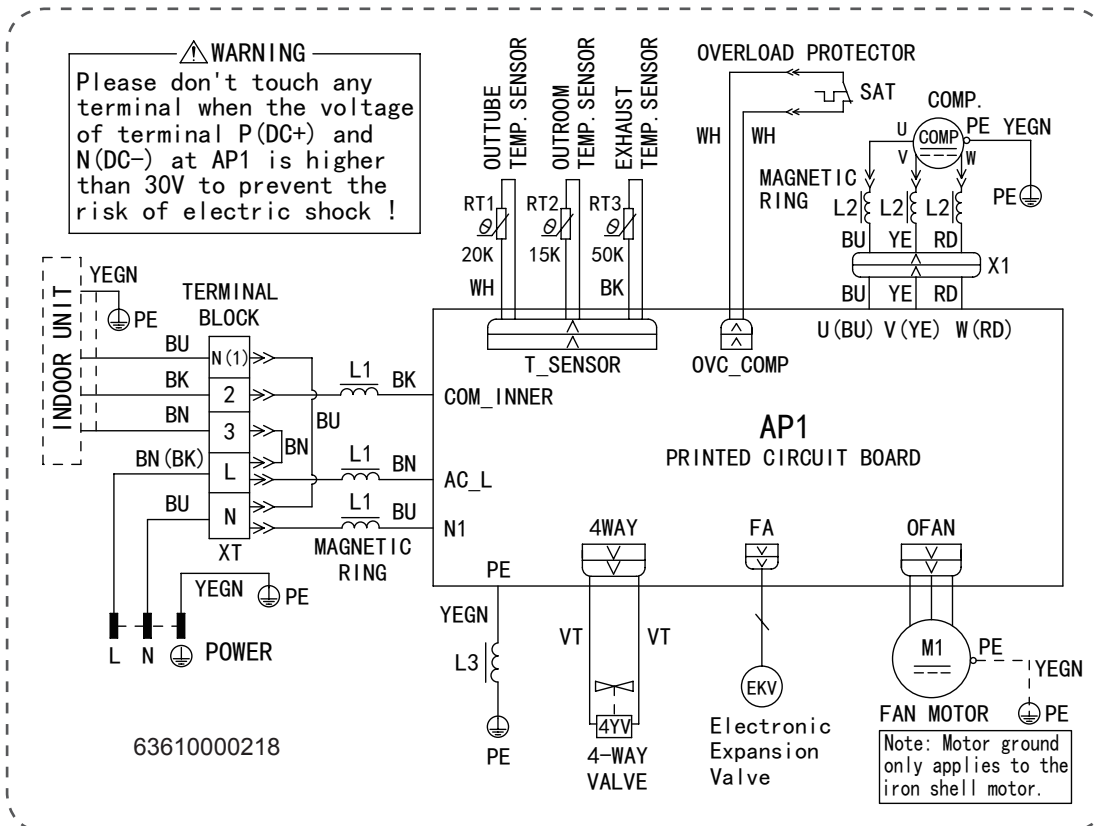


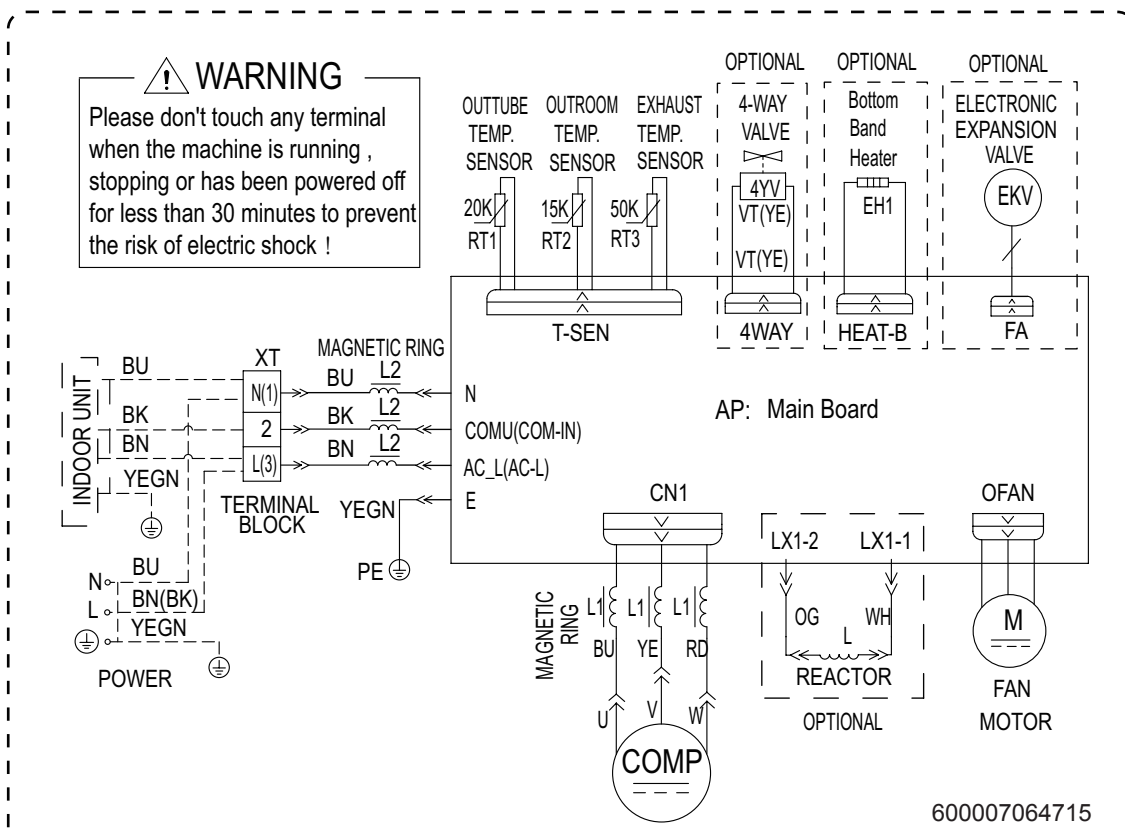
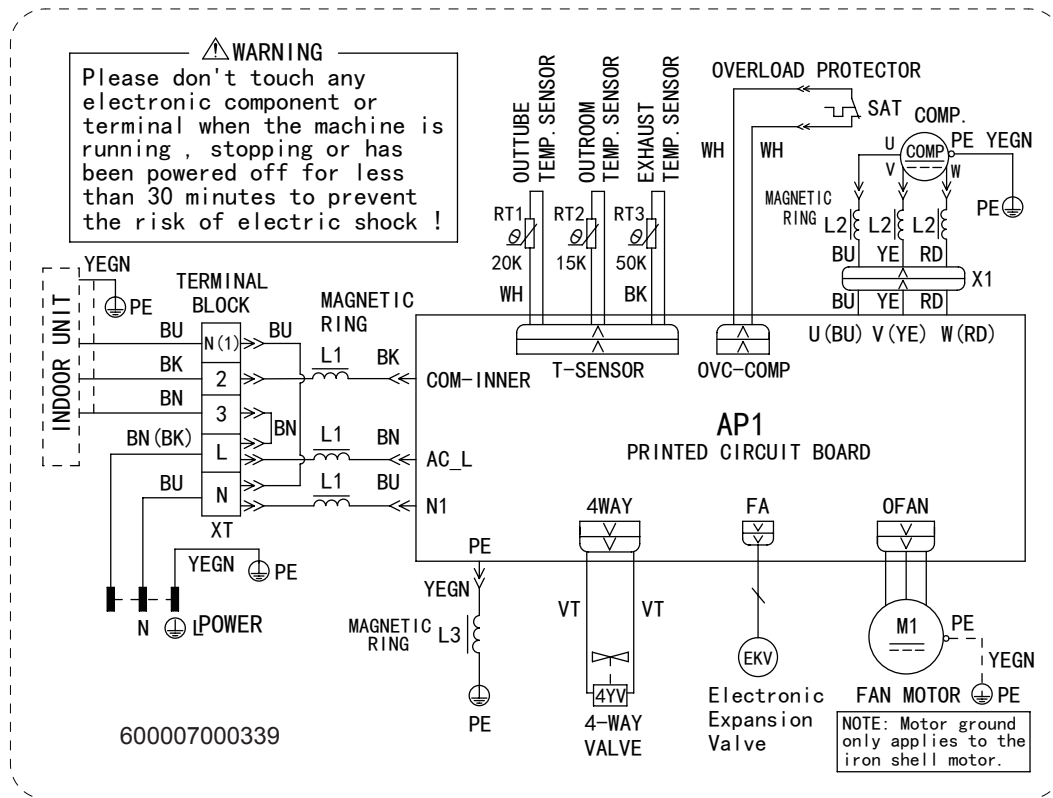






GWH18QD-K6DNA1D/O





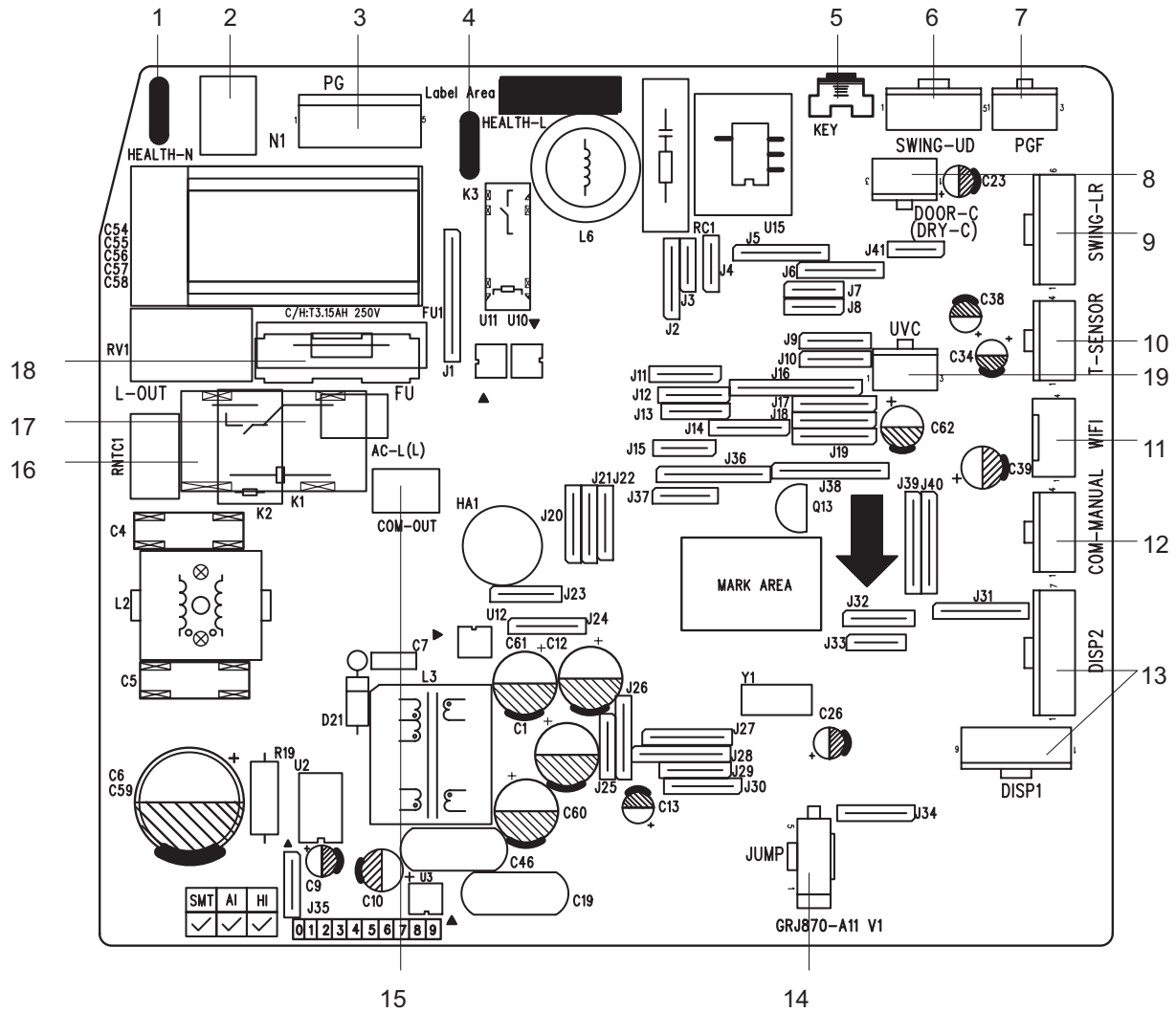
These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

## 5.2 PCB Printed Diagram

### Indoor Unit

07K/09K/12K

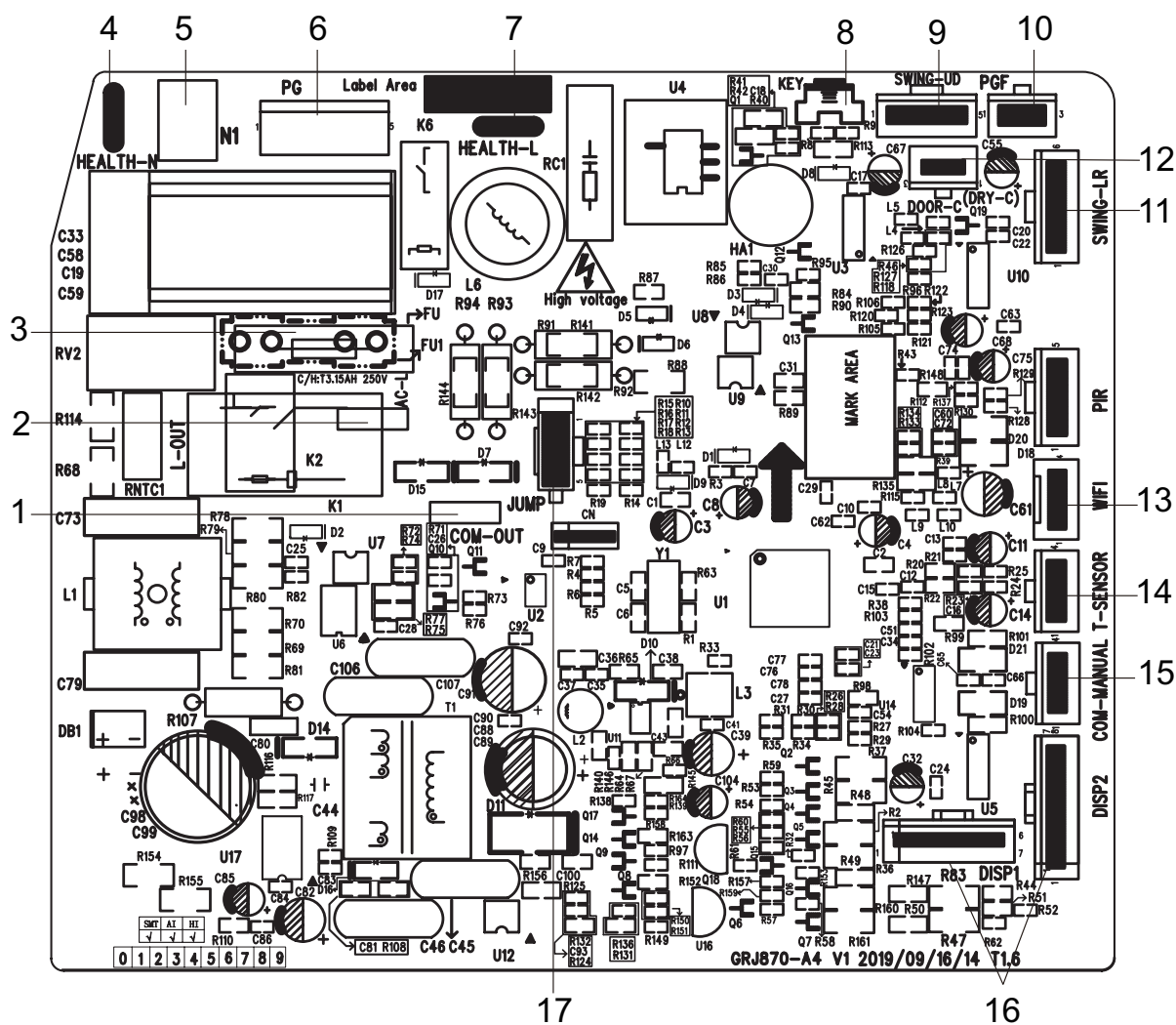
GWH18QD-K6DNB2E/I GWH18QD-K6DNC4A/I GWH18QD-K6DNC2A/I GWH18QD-K6DNE4A/I GWH18QDXB-K6DND8E/I



No.	Name
1	Interface of health function neutral wire
2	Neutral wire terminal
3	Motor terminal
4	Interface of health function live wire
5	Auto button
6	Up&down swing terminal
7	Interface of Motor feedback
8	Interface of gate-control
9	Left&right swing terminal
10	Terminal of temperature sensor

No.	Name
11	WIFI terminal
12	Wired controller terminal
13	Interface of display board
14	Jumper cap
15	Communication terminal for indoor unit and outdoor unit
16	Terminal of live wire used for supplying power for outdoor unit
17	Live wire terminal
18	Fuse
19	Ultraviolet clean terminal



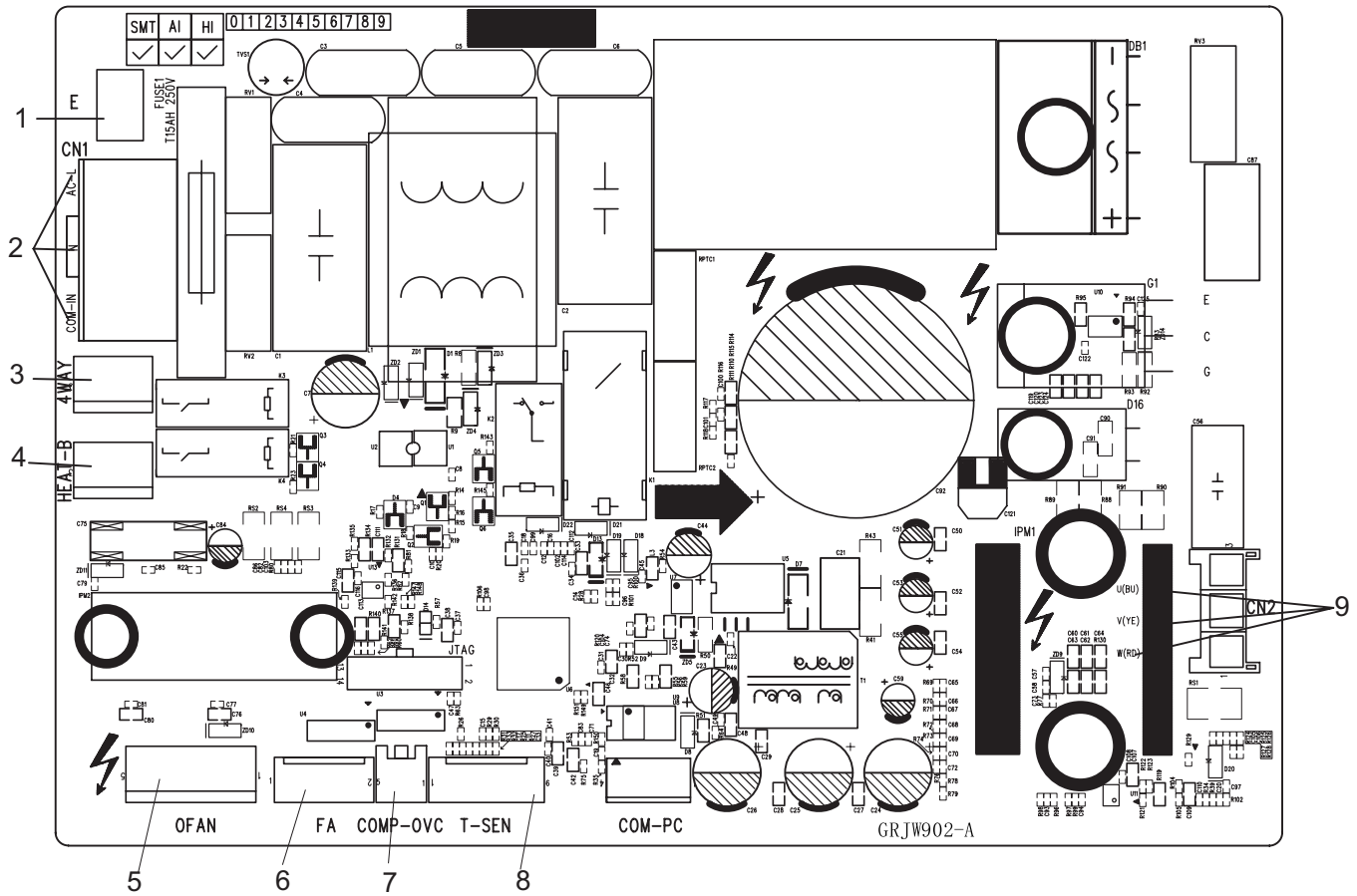


No.	Name	No.	Name
1	Interface of communication wire for indoor unit and outdoor unit	10	Interface of PG feedback
2	Interface of live wire	11	Left&right swing interface
3	Fuse	12	Interface of dry contact(only for the model with this function)
4	Interface of health function neutral wire(Applicable for some models)	13	Interface of wifi
5	Interface of neutral wire	14	Needle stand for tube temperature sensor
6	Interface of fan	15	Relay used for controlling wire
7	Interface of health function live wire	16	Display board
8	Auto button	17	Jumper cap
9	Up&down swing interface		

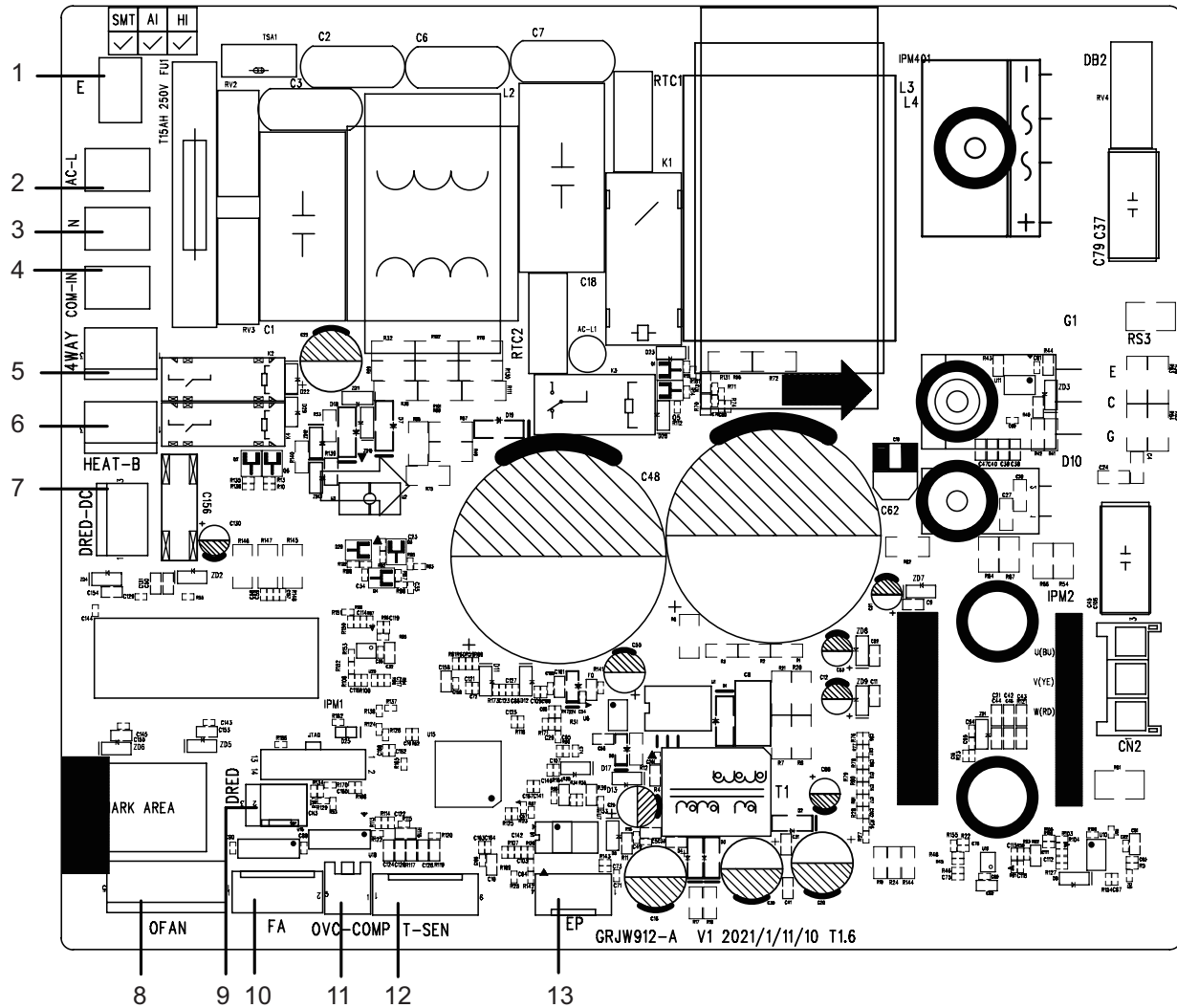
# Outdoor Unit

09K/12K

GWH07QA-K6DNC4A GWH18ALD-K6DNA1A/O

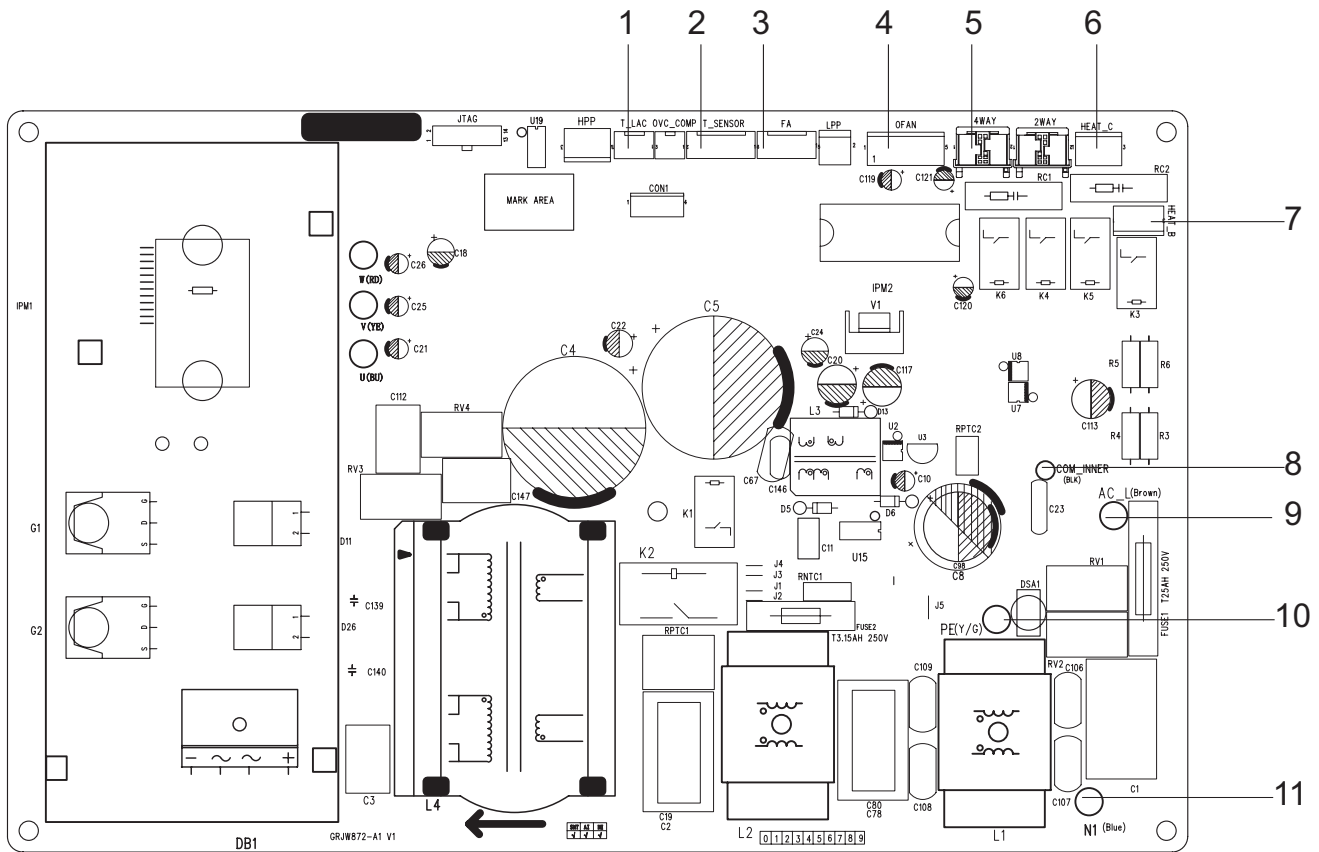


No.	Name
1	Earthing wire
2	Neutral wire, live wire and communication cable
3	4-way valve
4	Electric heating belt of chassis
5	Outdoor fan
6	Electronic expansion valve
7	Overload
8	Temperature sensor
9	Three-phase terminal of compressor



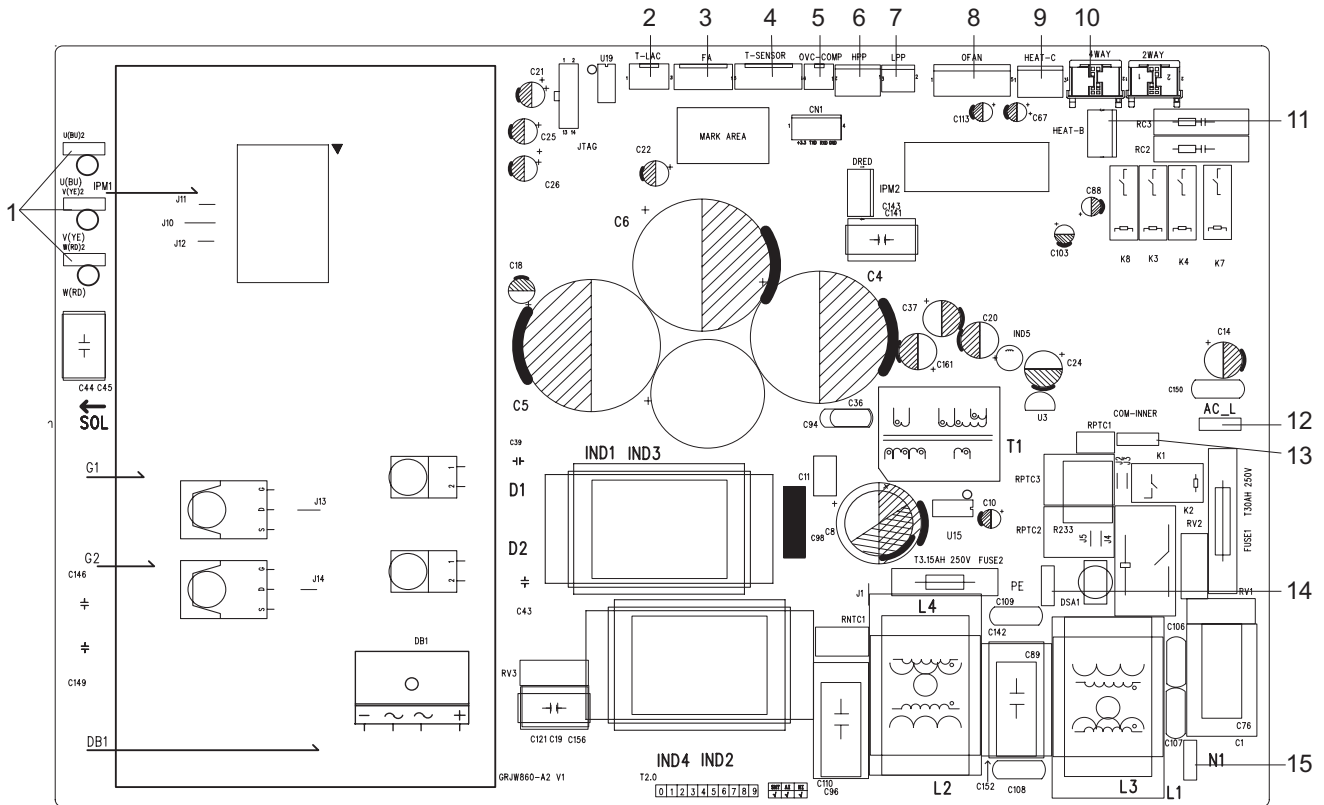
No.	Name	No.	Name
1	Earthing wire	8	Outdoor fan
2	Live wire	9	DRED(Reserved)
3	Neutral wire	10	Electronic expansion valve
4	Communication wire	11	Compressor Overload
5	4-way valve	12	Temperature sensor
6	Electric heating of chassis	13	Compressor
7	DRED-DC(Reserved)		





No.	Name
1	Terminal of compressor overload protection
2	Terminal of temperature sensor
3	Terminal of electronic expansion valve
4	Terminal of outdoor fan
5	Terminal of 4-way valve
6	Terminal of compressor electric heating

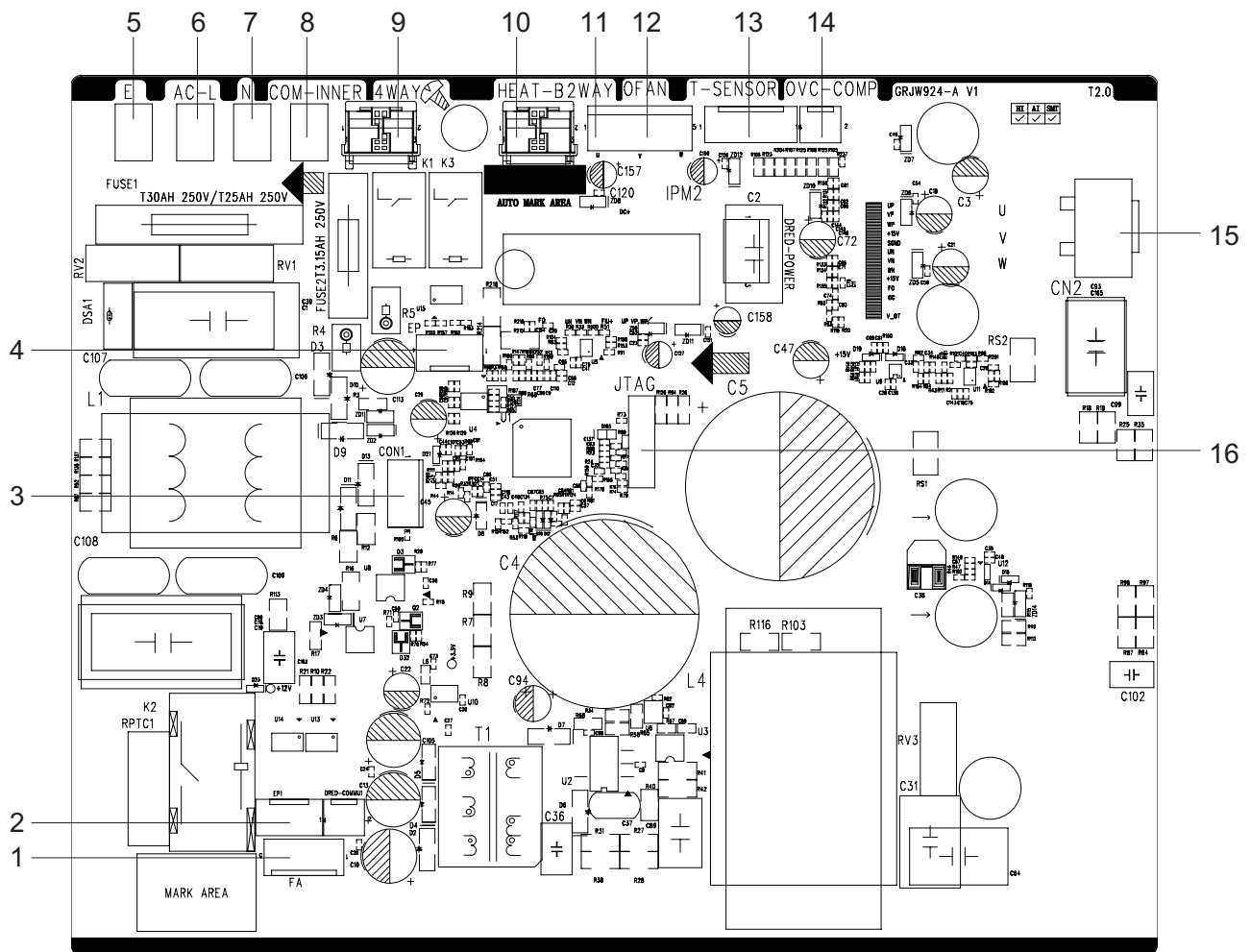
No.	Name
7	Terminal of chassis electric heating
8	Terminal of indoor unit and outdoor unit communication
9	Power supply live wire
10	Earthing wire
11	Power supply neutral wire



No.	Name
1	Compressor three phase input interface
2	Terminal of low ambient temperature cooling temperature sensor
3	Terminal of electronic expansion valve
4	Terminal of outdoor temperature sensor
5	Terminal of compressor overload protection
6	Terminal of high pressure protection
7	Terminal of low pressure protection
8	Terminal of outdoor fan

No.	Name
9	Terminal of compressor electric heating
10	Terminal of 4-way valve
11	Terminal of chassis electric heating
12	Terminal of live wire
13	Terminal of communication
14	Terminal of grounding wire
15	Terminal of neutral wire





No.	Name	No.	Name
1	Terminal of electronic expansion valve	9	4-way valve
2	E disk(Reserved)	10	Electric heating belt of chassis
3	Computer monitoring interface	11	2-way valve
4	EE flash drive	12	DC motor
5	Grounding wire	13	Temperature sensor
6	Live wire	14	Overload interface of compressor
7	Neutral wire	15	Terminal of compressor
8	Communication wire	16	Interface of program debugs



# 6. Function and Control

## 6.1 Remote Controller Introduction

YAC1FB9(WiFi)

### Buttons on remote controller



#### NOTE:

- This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.
- After putting through the power, the air conditioner will give out a sound. Power indicator "⏻" is ON. After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon "📶" on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.
- As for the models with functions of WiFi or wired controller, the indoor unit must have been controlled by standard remote controller under auto mode first, and then the function of adjustable temperature under auto mode can be realized by APP or the wired controller.
- This remote controller can adjust the temperature under auto mode. When matching with the unit which is without the function of adjustable temperature under auto mode, the set temperature under auto mode may be invalid, or the displayed set temperature on the unit is not same as that on the remote controller under auto mode.

### Introduction for icons on display screen

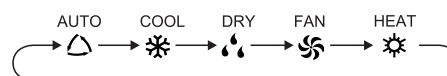
	I feel	
	Set fan speed	
	Turbo mode	
	Send signal	
Operation mode		Auto mode
		Cool mode
		Dry mode
		Fan mode
		Heat mode
	Sleep mode	
	8°C heating function	
	Health mode	
	Scavenging function	
	Quiet	
	X-FAN function	
Temp. display type		Set temp.
		Indoor ambient temp.
		Outdoor ambient temp.
	Clock	
	Set temperature	
	WiFi function	
	Set time	
	TIMER ON / TIMER OFF	
	Light	
	Left & right swing	
	Up & down swing	
	Child lock	

#### button

Press this button to turn on the unit. Press this button again to turn off the unit.

#### button

Press this button to select your required operation mode.






- When selecting auto mode, air conditioner will operate automatically according to the sensed temperature. Press "FAN" button can adjust fan speed. Press "🌀" / "🌀" button can adjust fan blowing angle.
- After selecting cool mode, air conditioner will operate under cool mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting heat mode, the air conditioner operates under





### SLEEP button

- Press this button, can select Sleep 1 (  ), Sleep 2 (  ), Sleep 3 (  ) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted. Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1 , two hours, setting temperature increased 2 , then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1 , two hours, setting temperature will decrease 2 , then the unit will run at this setting temperature.

- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.

- Sleep 3-the sleep curve setting under Sleep mode by DIY;

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remote controller will display "1hour", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);


(2) Adjust "▲" and "▼" button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation;

(3) At this time, 1hour will be automatically increased at the timer position on the remote control, (that are "2hours" or "3hours" or "8 hours" ), the place of setting temperature " 88 " will display the corresponding temperature of last setting sleep curve and blink;

(4) Repeat the above step (2)~(3) operation, until 8 hours temperature setting finished, sleep,curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.

- Sleep 3-the sleep curve setting under Sleep mode by DIY could be inquired: The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation. Note: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed , the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "Mode" button, " Sleep " button, the sleep curve setting or enquiry status will quit similarly.

### I FEEL button



Press this button to start I FEEL function and "  " will be displayed on the remote controller. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press this

button again to close I FEEL function and " " will disappear.



Please put the remote controller near user when this function is set. Do not put the remote controller near the object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature. When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

### TIMER ON / TIMER OFF button


- TIMER ON button

"TIMER ON" button can set the time for timer on. After pressing this button, "  " icon disappears and the word "ON" on remote controller blinks. Press "▲" or "▼" button to adjust TIMER ON setting. After each pressing "▲" or "▼" button. TIMER ON setting will increase or decrease 1min. Holding "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time. Press "TIMER ON" to confirm it. The word "ON" will stop blinking. "  " icon resumes displaying. Cancel TIMER ON: Under the condition that TIMER ON is started up, press "TIMER ON" button to cancel it.



- TIMER OFF button

"TIMER OFF" button can set the time for timer off. After pressing this button, "  " icon disappears and the word "OFF" on remote controller blinks. Press "▲" or "▼" button to adjust TIMER OFF setting. After each pressing "▲" or "▼" button, TIMER OFF setting will increase or decrease 1min. Holding "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time. Press "TIMER OFF" and the word "OFF" will stop blinking. "  " icon resumes displaying. Under the condition that TIMER OFF is started up, press "TIMER OFF" button to cancel it.

#### NOTE:

- Under on and off status, you can set TIMER OFF or TIMER ON simultaneously.
- Before setting TIMER ON or TIMER OFF, please adjust the clock time.
- When turning on TIMER ON or TIMER OFF function, set this function valid all the time and the air conditioner will be turned on or turned off at set temperature every day. "  " button has no affect to setting. If this function is not required, use the remote controller to cancel it.

### CLOCK button

Press this button to set clock time. "  " icon on remote controller will blink. Press "▲" or "▼" button within 5s to set clock time. Each pressing of "▲" or "▼" button, clock time will increase or decrease 1 minute. If hold "▲" or "▼" button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. "  " icon stops blinking.

#### NOTE:

- Clock time adopts 24-hour mode.
- The interval between two operations can't exceed 5s. Otherwise, remote controller will quit setting status. Operation for TIMER ON/TIMER OFF is the same.

### QUIET button

Press this button, the Quiet status is under the Auto button Quiet mode (display "🔇" and "AUTO" signal) and Quiet mode (display "🔇" signal) and Quiet OFF (there is no signal of "🔇" displayed). After powered on, the Quiet OFF is defaulted.

#### NOTE:

- The quiet function is only available for some models.
- The Quiet function can be set up in all modes; Under the Quiet mode, the fan speed is not available.
- When quiet function is selected.

Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or when indoor ambient temperature  $\leq 28^{\circ}\text{C}$ , indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.

Under heating mode: indoor fan operates at notch 3 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.

Under dry, fan mode: indoor fan operates at quiet mode.

Under auto mode: the indoor fan operates at the auto quiet mode according to actual cooling, heating or fan mode.

### WiFi button

Press "WiFi" button to turn on WiFi function, "WiFi" icon will be displayed on the remote controller;

Hold "WiFi" button for 5s to turn off WiFi function and "WiFi" icon will disappear.

Under off status, press "MODE" and "WiFi" buttons simultaneously for 1s, WiFi module will restore factory settings.

#### NOTE:

- This function is only available for some models.

### LIGHT button

Press this button to turn off display light on indoor unit. "💡" icon on remote controller disappears.

Press this button again to turn on display light. "💡" icon is displayed.

### 🌿 button

Press this button to turn on or turn off the health and scavenging functions in operation status. Press this button for the first time to start scavenging function; LCD displays "🏠". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays "🏠" and "🌿".

Press this button for the third time to quit health and scavenging functions simultaneously. Press the button for the fourth time to start health function; LCD display "🌿". Press this button again to repeat the operation above.

#### NOTE:

- This function is only available for some models.

### TEMP button

By pressing this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:



- When selecting "🏠" or no display with remote controller, temperature indicator on indoor unit displays set temperature.
- When selecting "🏠🌡️" with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting "🏠🌡️☀️" with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

#### NOTE:

- Outdoor temperature display is not available for some models. At that time, indoor unit receives "🏠☀️" signal, while it displays indoor set temperature.
- It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.
- Only for the models whose indoor unit has dual-8 display.
- When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

## Function introduction for combination buttons

### Energy-saving function

Under cooling mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off energy-saving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to e x-factory setting to reach to the best energy-saving effect. Press "TEMP" and "CLOCK" buttons simultaneously again to exit energy-saving function.

#### NOTE:

- Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under energy-saving function, set temperature can't be adjusted. Press "TURBO" button and the remote controller won't send signal.
- Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press sleep button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

### 8°C heating function

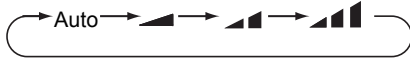
Under heat mode, press "TEMP" and "CLOCK" buttons





**FAN** button

Pressing this button can set fan speed circularly as: auto(AUTO), low( ), medium( ), high( ).

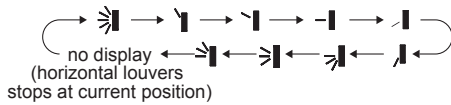


**Notice :**

- Under AUTO speed, air conditioner will select proper fan speed automatically according to factory default setting.
  - It's low fan speed under dry mode.
  - X-FAN function: Holding fan speed button for 2s in cool or dry mode, the icon "☼" is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in auto, fan or heat mode.
- This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mould.
- Having set X-FAN function on: After turning off the unit by pressing "⏻" button, indoor fan will continue running for a few minutes at low speed. In this period, hold fan speed button for 2s to stop indoor fan directly.
  - Having set X-FAN function off: After turning off the unit by pressing "⏻" button, the complete unit will be off directly.

**SWING** button

Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:



- When selecting "☼", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting "↑, ↓, ↑, ↓", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- When selecting "↗, ↘, ↗", air conditioner is blowing fan at fixed angle. Horizontal louver will send air at the fixed angle.
- Hold "☼" button above 2s to set your required swing angle. When reaching your required angle, release the button.

**Notice :**

- "↗, ↘, ↗" may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.

**TURBO** button

Under cool or heat mode, press this button to turn to quick cool or quick heat mode. "⚡" icon is displayed on remote controller. Press this button again to exit turbo function and "⚡" icon will disappear.

**▲ / ▼** button

Press "▲" or "▼" button once increase or decrease set temperature 1°C(1°F). Holding "▲" or "▼" button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly. (Temperature can't be adjusted under auto mode)

When setting TIMER ON, TIMER OFF or CLOCK, press "▲" or "▼" button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons)

**SLEEP** button

Under cool or heat mode, press this button to start up sleep function. "☾" icon is displayed on remote controller. Press this button again to cancel sleep function and "☾" icon will disappear.

**TEMP** button

By pressing this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:



- When selecting "☺" or no display with remote controller, temperature indicator on indoor unit displays set temperature.
- When selecting "☺" with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting "☺!" with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

**Notice :**

- Outdoor temperature display is not available for some models. At that time, indoor unit receives "☺!" signal, while it displays indoor set temperature.
- It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.
- Only for the models whose indoor unit has dual-8 display.
- When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

**WiFi** button

Press "WiFi" button to turn on WiFi function, "WiFi" icon will be displayed on the remote controller. Hold "WiFi" button for 5s to turn off WiFi function and "WiFi" icon will disappear. Under off status, press "MODE" and "WiFi" buttons simultaneously for 1s, WiFi module will restore factory settings.

**Notice :**

- This function is only available for some models.





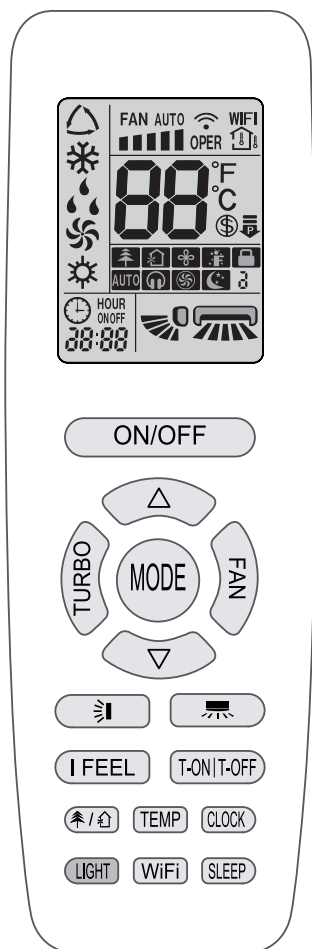


## YAP1F2(WiFi)

### NOTE:

- This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- After putting through the power, the air conditioner will give out a sound. Power indicator "⏻" is ON (red indicator, the colour is different for different models). After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon "📶" on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.

### Buttons on remote controller



can adjust fan speed. Press "🌀" / "🌀" button can adjust fan blowing angle.

- After selecting cool mode, air conditioner will operate under cool mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. All indicators are OFF. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle.
- When selecting heating mode, the air conditioner operates under heat mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "🌀" / "🌀" button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/OFF button can't start up the unit).

### NOTE:

- For preventing cold air, after starting up heating mode, indoor unit will delay 1~5 minutes to blow air (actual delay time is depend on indoor ambient temperature).
- Set temperature range from remote controller: 16~30°C (61~86°F); Fan speed: auto, low speed, medium speed, high speed.
- This indicator is not available for some models.



Pressing this button can set fan speed circularly as: auto (AUTO), low( 🌀 ), medium( 🌀🌀 ), high( 🌀🌀🌀 ).



### NOTE:

- Under AUTO speed, air conditioner will select proper fan speed automatically according to ex-factory setting.
- It's Low fan speed under Dry mode.
- X-FAN function Hold fan speed button for 2s in COOL or DRY



Press this button to turn on the unit. Press this button again to turn off the unit.



Press this button to select your required operation mode.



- When selecting auto mode, air conditioner will operate automatically according to ex-factory setting. Set temperature can't be adjusted and will not be displayed as well. Press "FAN" button



mode, the icon "⊗" is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode. This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mould.

- Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for a few minutes. at low speed. In this period, Hold fan speed button for 2s to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.



Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. "⊗" icon is displayed on remote controller. Press this button again to exit turbo function and "⊗" icon will disappear.

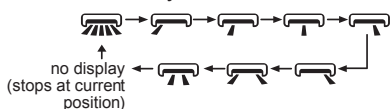
If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temperature approaches the preset temperature as soon as possible.



Press "▲" or "▼" button once increase or decrease set temperature 1°C (°F). Holding "▲" or "▼" button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly. (Temperature can't be adjusted under auto mode) When setting T-ON, T-OFF or CLOCK, press "▲" or "▼" button to adjust time. (Refer to CLOCK, T-ON, T-OFF buttons)



Press this button can select left & right swing angle. Fan blow angle can be selected circularly as below:



**NOTE:**

- Press this button continuously more than 2s, the main unit will swing back and forth from left to right, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
- Under swing left and right mode, when the status is switched from off to , if press this button again 2s later, status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.
- This function only applicable for some models.



Press this button can select up & down swing angle. Fan blow angle can be selected circularly as below:



- When selecting " ", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting " , , , , ", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- When selecting " , , ", air conditioner is blowing fan at fixed angle.
- Hold " " button above 2s to set your required swing angle. When reaching your required angle, release the button.

**NOTE:**

- " , , " may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.
- Press this button continuously more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit will stop swinging and present position of guide louver will be kept immediately.
- Under swing up and down mode, when the status is switched from off to , if press this button again 2s later, status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.



- T-ON button

"T-ON" button can set the time for timer on. After pressing this button, "⊕" icon disappears and the word "ON" on remote controller blinks. Press "▲" or "▼" button to adjust T-ON setting. After each pressing "▲" or "▼" button, T-ON setting will increase or decrease 1min. Hold "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time. Press "T-ON" to confirm it. The word "ON" will stop blinking. "⊕" icon resumes displaying. Cancel T-ON: Under the condition that T-ON is started up, press "T-ON" button to cancel it.

- T-OFF button



"T-OFF" button can set the time for timer off. After pressing this button, "⊕" icon disappears and the word "OFF" on remote controller blinks. Press "▲" or "▼" button to adjust T-OFF setting. After each pressing "▲" or "▼" button, T-OFF setting will increase or decrease 1min. Hold "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time. Press "T-OFF" word "OFF" will stop blinking. "⊕" icon resumes displaying. Cancel T-OFF: Under the condition that T-OFF is started up, press "T-OFF" button to cancel it.

**NOTE:**

- Under on and off status, you can set T-OFF or T-ON simultaneously.









- Before setting T-ON or T-OFF, please adjust the clock time.
- After starting up T-ON or T-OFF, set the constant circulating valid.
- After that, air conditioner will be turned on or turned off according to setting time.ON/OFF button has no effect on setting. If you don't need this function, please use remote controller to cancel it.

#### I FEEL

Press this button to start I FEEL function and "  " will be displayed on the remote controller. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press this button again to cancel I FEEL function and "  " will disappear.

- Please put the remote controller near user when this function is set. Do not put the remote controller near the object of high temperature or low temperature in order to avoid detecting inaccurate ambient temperature. When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

#### CLOCK



Press this button to set clock time. "  " icon on remote controller will blink. Press "  " or "  " button within 5s to set clock time. Each pressing of "  " or "  " button, clock time will increase or decrease 1 minute. If hold "  " or "  " button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. "  " icon stops blinking.

#### NOTE:

- Clock time adopts 24-hour mode.
- The interval between two operations can't exceed 5s. Otherwise, remote controller will quit setting status. Operation for T-ON/T-OFF is the same.

#### SLEEP

Under COOL or HEAT mode, press this button to start up sleep function.

"  " icon is displayed on remote controller. Press this button again to cancel sleep function and "  " icon will disappear. After powered on, Sleep Off is defaulted. After the unit is turned off, the Sleep function is canceled.

In this mode, set temperature will be adjusted with the change of time. Under Fan, DRY and Auto modes, this function is not available.

#### WiFi





Press " WiFi " button to turn on WiFi function, "WiFi" icon will be displayed on the remote controller; Hold " WiFi " button for 5s to turn off WiFi function and " WiFi " icon will disappear.

Under off status, press "MODE" and " WiFi " buttons simultaneously for 1s, WiFi module will restore factory settings.

#### NOTE:

- This function is only available for some models.

#### button

Press this button to achieve the on and off of health and scavenging functions in operation station. Press this button for the first time to start scavenging function; LCD displays "  ". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays "  " and "  ". Press this button for the third time to quit health and scavenging functions simultaneously. Press the button for the fourth time to start health function; LCD display "  ". Press this button again to repeat the operation above.

#### NOTE:

- This function is applicable to partial of models.

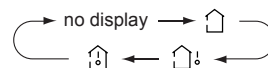
#### LIGHT




Press this button to turn on or turn off the display light on the indoor unit.

The display light is defaulted on after energization.


#### TEMP

By pressing this button, you can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:



- When selecting "  " or no display with remote controller, temperature indicator on indoor unit displays set temperature.
- When selecting "  " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.
- When selecting "  " with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

#### NOTE:

- Outdoor temperature display is not available for some models. At that time, indoor unit receives "  " signal, while it displays indoor set temperature.
- It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.
- Only for the models whose indoor unit has dual-8 display.
- When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

## Introduction for icons on display screen

	Set fan speed
	Send signal
<b>WiFi</b>	WiFi function
	Set temp.
	Indoor ambient temp.
	Outdoor ambient temp.
<b>Operation mode</b>	Auto mode
	Cool mode
	Dry mode
	Fan mode
	Heat mode
	Set temperature
	8°C heating function
	Health mode
	Scavenging function
	X-FAN function
	I feel
	Child lock
	Quiet
	Turbo mode
	Sleep mode
	Clock
ON/OFF	TIMER ON / TIMER OFF
	Set time
	Up & down swing
	Left & right swing
	Power limiting operation

## Function introduction for combination buttons

### ● Energy-saving function

Under cooling mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off energysaving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to ex-factorysetting to reach to the best energy-saving effect. Press "TEMP" and "CLOCK" buttons simultaneously again to exit energy-saving function.

#### NOTE:

- Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under energy-saving function, set temperature can't be adjusted. Press "TURBO" button and the remote controller won't send signal.
- Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press sleep button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

### ● 8°C heating function

Under heat mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off 8°C heating function. When this function is started up, "8°C" and "8°C" will be shown on remote controller, and the air conditioner keep the heating status at 8°C.

Press "TEMP" and "CLOCK" buttons simultaneously again to exit 8°C heating function.

#### NOTE:

- Under 8°C heating function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under 8°C heating function, set temperature can't be adjusted. Press "TURBO" button and the remote controller won't send signal.
- Sleep function and 8°C heating function can't operate at the same time. If 8°C heating function has been set under heat mode, press sleep button will cancel 8°C heating function. If sleep function has been set under heat mode, start up the 8°C heating function will cancel sleep function.
- Under °F temperature display, the remote controller will display 46°F heating.

### ● Child lock function

Press "▲" and "▼" simultaneously to turn on or turn off child lock function. When child lock function is on, "🔒" icon is displayed on remote controller. If you operate the remote controller, the "🔒" icon will blink three times without sending signal to the unit.

### ● Temperature display switchover function

Under OFF status, press "▼" and "MODE" buttons simultaneously to switch temperature display between °C and °F.

### ● Auto clean function

Under unit off status, hold "MODE" and "FAN" buttons simultaneously for 5s to turn on or turn off the auto clean function. When the auto clean function is turned on, indoor unit displays "CL". During the auto clean process of evaporator, the unit will perform fast cooling or fast heating. There may be some noise, which is the sound of flowing liquid or thermal expansion or cold shrinkage. The air conditioner may blow cool or warm air, which is a normal phenomenon. During cleaning process, please make sure the room is well ventilated to avoid affecting the comfort.

#### NOTE:

- The auto clean function can only work under normal ambient temperature. If the room is dusty, clean it once a month; if not, clean it once every three months. After the auto clean function is turned on, you can leave the room. When auto clean is finished, the air conditioner will enter standby status.
- This function is only available for some models.
- **Night mode**

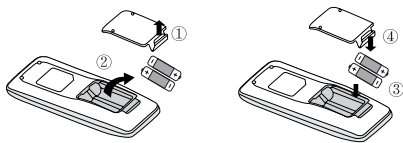
Under cooling or heating mode, when turning on sleep mode and turn to low speed or quiet notch, the outdoor unit would enter into night mode.

**NOTE:**

- When you feel that the cooling and heating effect is poor, please press "FAN" button to other fan speed or press "SLEEP" button to exit the night mode.
- The night mode can only work under normal ambient temperature.
- This function is only available for some models.

**Replacement of batteries in remote controller**

1. Lift the cover along the direction of arrow (as shown in Fig 1 ①).
2. Take out the original batteries (as shown in Fig 1 ②).
3. Place two 7# (AAA 1.5V) dry batteries, and make sure the position of " + " polar and " - " polar is correct (as shown in Fig 2 ③).
4. Reinstall the cover (as shown in Fig 2 ④).

**NOTICE:**

- During operation, point the remote control signal sender at the receiving window on indoor unit.
- The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
- Replace new batteries of the same model when replacement is required.
- When you don't use remote controller for a long time, please take out the batteries.
- If the display on remote controller is fuzzy or there's no display, please replace batteries.



### **(11) Ambient temperature display control mode**

1. When user set the remote controller to display set temperature (corresponding remote control code: 01), current set temperature will be displayed.

2. Only when remote control signal is switched to indoor ambient temperature display status (corresponding remote control code: 10) from other display status (corresponding remote control code: 00, 01, 11), controller will display indoor ambient temperature for 3s and then turn back to display set temperature.

Under this mode, indoor fan operates at set fan speed. Compressor, outdoor fan, 4-way valve and electric heating tube stop operation. Indoor fan can select to operate at high, medium, low or auto fan speed. Temperature setting range is 16~30°C.

### **(12) Off-peak energization function:**

Adjust compressors minimum stop time. The original minimum stop time is 180s and then we change to:

The time interval between two start-ups of compressor can't be less than  $180+T_s$  ( $0 \leq T \leq 15$ ). T is the variable of controller. That's to say the minimum stop time of compressor is 180s~195s. Read-in T into memory chip when refurbish the memory chip each time. After power recovery, compressor can only be started up after  $180+T$  s at least.

### **(13) SE control mode**

The unit operates at SE status.

### **(14) X-fan mode**

When X-fan function is turned on, after turn off the unit, indoor fan will still operate at low speed for 2min and then the complete unit will be turned off. When x-fan function is turned off, after turn off the unit, the complete unit will be turned off directly.

### **(15) 8°C heating function**

Under heating mode, you can set 8°C heating function by remote controller. The system will operate at 8°C set temperature.

### **(16) Turbo function**

Turbo function can be set under cooling and heating modes. Press Fan Speed button to cancel turbo setting. Turbo function is not available under auto, drying and fan modes.



## ● Outdoor Unit(07/09/12K)

### 1. Cooling mode:

Working condition and process of cooling mode:

① When Tindoor ambient temperature  $\geq T_{\text{preset}}$ , unit enters into cooling mode. Indoor fan, outdoor fan and compressor start operation. Indoor fan operates according to set fan speed.

② When Tindoor ambient temperature  $\leq T_{\text{preset}} - 2^{\circ}\text{C}$ , compressor stops operation and outdoor fan will stop 30s later. Indoor fan operates according to set fan speed.

③ When  $T_{\text{preset}} - 2^{\circ}\text{C} < \text{Tindoor ambient temperature} < T_{\text{preset}}$ , unit operates according to the previous status.

Under cooling mode, 4-way valve is not energized. Temperature setting range is  $16 \sim 30^{\circ}\text{C}$ . If compressor stops because of malfunction in cooling mode, indoor fan and swing motor will work according to the original status.

### 2. Drying mode

(1) Working condition and process of drying mode

① When Tindoor ambient temperature  $> T_{\text{preset}}$ , unit will be in drying mode. Outdoor fan and compressor start operation while indoor fan will operate at low fan speed.

② When  $T_{\text{preset}} - 2^{\circ}\text{C} \leq \text{Tindoor ambient temperature} \leq T_{\text{preset}}$ , unit operates according to the previous status.

③ When Tindoor ambient temperature  $< T_{\text{preset}} - 2^{\circ}\text{C}$ , compressor stops operation and outdoor fan will stop 30s later.

(2) Under drying mode, 4-way valve is not energized. Temperature setting range is  $16 \sim 30^{\circ}\text{C}$ .

(3) Protection function: same as in cooling mode.

### 3. Fan mode

(1) Under this mode, indoor fan can select different fan speed (except Turbo) or auto fan speed. Compressor, outdoor fan and 4-way valve all stop operation.

(2) In fan mode, temperature setting range is  $16 \sim 30^{\circ}\text{C}$ .

### 4. Heating mode

Working condition and process of heating mode:

① When  $T_{\text{preset}} - (\text{Tindoor ambient temperature} - T_{\text{compensation}}) \geq 1^{\circ}\text{C}$ , unit enters into heating mode. Compressor, outdoor fan and 4-way valve start operation.

② When  $-2^{\circ}\text{C} < T_{\text{preset}} - (\text{Tindoor ambient temperature} - T_{\text{compensation}}) < 1^{\circ}\text{C}$ , unit operates according to the previous status.

③ When  $T_{\text{preset}} - (\text{Tindoor ambient temperature} - T_{\text{compensation}}) \leq -2^{\circ}\text{C}$ , compressor stops operation and outdoor fan will stop 30s later. Indoor fan will be in residual-heat blowing status.

④ When unit is turned off under heating mode or changed to other modes from heating mode, 4-way valve will be power-off 2min after compressor stops working (compressor is in operation status under heating mode).

⑤ When Tindoor ambient temperature  $> 30^{\circ}\text{C}$ , compressor stops operation immediately. Outdoor fan will stop 30s later.

⑥ Under the condition that compressor is turned on, when unit is changed to heating mode from cooling or drying mode, 4-way valve will be energized in 2~3mins delay.

Note: Tcompensation is determined by IDU and ODU. If IDU controls the compensation temperature, then Tcompensation is determined according to the value sent by IDU to ODU; If IDU does not control the compensation temperature, then Tcompensation will default to  $3^{\circ}\text{C}$  by the ODU.

### 5. Freon recovery mode

After the Freon recovery signal from IDU is received, cooling at rated frequency will be forcibly turned on to recover Freon.

Indoor unit will display Fo. If any signal from remote controller is received, unit will exit from Freon recovery mode and indoor unit stops displaying Fo.

### 6. Compulsory defrosting

If unit is turned on under heating mode and set temperature is  $16^{\circ}\text{C}$  (by remote controller), press “▲, ▼, ▲, ▼, ▲, ▼” within 5s, unit will enter into compulsory defrosting mode and send the signal to ODU. When the compulsory defrosting signal from ODU is received, IDU will exit from the compulsory defrosting mode and stop sending the signal to ODU.

After ODU receives the compulsory defrosting code, it will start compulsory defrosting. Defrosting frequency and opening angle will be the same as in normal defrosting mode. When compulsory defrosting is finished, the complete unit resumes original status.

### 7. Auto mode

Auto mode is determined by controller of IDU. See IDU logic for details.

### 8. 8°C heating

Set temperature is  $8^{\circ}\text{C}$ . Display board of IDU displays  $8^{\circ}\text{C}$ . Under this mode, “Cold air prevention” function is shielded.

If compressor is operating under this mode, fan speed will adjust according to auto fan speed; if compressor stops operation under this mode, indoor fan will be in residual-heat blowing status.

**When power on, communication light will be blinking in a normal way (after receiving a group of correct signals, blinking stops for 0.2s~0.3s). If there's no communication, communication light will be always on. If other ODU has malfunction, communication light will be on for 1s and off for 1s in a circular way.**





again without delay).

### 1. Cooling mode

Start the machine to enter into cooling operation for cooling, the compressor is switched on.

### 2. Dehumidifying mode

Same as the cooling mode.

### 3. Air-supplying mode

The compressor is switched off.

### 4. Heating mode

(1) Start the machine to enter into heating operation for heating, the compressor is switched on.

(2) Defrosting:

a. Defrosting starts: the compressor is shut down, and restarts it after 55-second delay.

b. Defrosting ends: the compressor stops, then starts it after 55-second delay.

### (2) Outer Fans Control

Notes:

Only the outer fans run for at least 80s in each air flow speed can the air flow be switched;

After the outer fans run compulsively in high speed for 80s when the machine starts up, control the air flow according to the logic.

After remote shutdown, safety stops, and when the machine stops after reaching the temperature point, as well as after the compressor stops, extend 1 minute, the outer fans will stop (During the period in the 1 minute, the air flow of outer fans can be changed according to the outdoor ambient temperature changes); When running with force, the outdoor fans shall run in the highest air flow.

### (3) 4-way valve control

1. The 4-way valve control under the modes of Cooling, dehumidification and supplying air: closing;

2. The status of 4-way valve control under the heating mode: getting power;

(1) 4-way valve power control under heating mode

Starts the machine under heating mode, the 4-way valve will get power immediately.

(2) 4-way valve power turn-off control under heating mode

a. When you should turn off the power or switch to other mode under heating mode, the power of 4-way valve will be cut after 2 minutes of the compressor stopped.

b. When all kinds of protection stops, the power of 4-way valve will be cut after delaying 4 minutes.

(3) Defrosting control under heating mode:

a. Defrosting begins: The power of 4-way valve will be cut after 50s of entering into the defrosting compressor.

b. Defrosting stops: The 4-way valve will get power after 50s of exiting the defrosting compressor.

### (4) Evaporator frozen-preventing protection function

At the mode of Cooling, dehumidifying:

Evaporator frozen-preventing protection function is allowed to begin after 6 min of starting the compressor.

#### 1. Starting estimation:

After the compressor stopped working for 180s, if  $T_{\text{inner pipe}} > [T_{\text{frozen-preventing frequency-limited temperature}}]$  (the temperature of hysteresis is 2 ), the machine is only allowed to start for operating, otherwise it should not be started, and should be stopped to treat according to the frozen-preventing protection: Clear the trouble under the mode of power turn-off / heating, and the protection times are not counted.

#### 2. Frequency limited

$[T_{\text{frozen-preventing normal speed frequency-reducing temperature}}] \leq T_{\text{inner pipe}} [T_{\text{frozen-preventing frequency-limited temperature}}]$ , you should limit the frequency raising of compressor.

#### 3. Reducing frequency at normal speed:

If  $[T_{\text{frozen-preventing high speed frequency-reducing temperature}}] \leq T_{\text{inner pipe}} [T_{\text{frozen-preventing normal speed frequency-reducing temperature}}]$ , you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit;

#### 4. Reducing frequency at high speed:

If  $[T_{\text{frozen-preventing power turn-off temperature}}] \leq T_{\text{inner pipe}} [T_{\text{frozen-preventing high speed frequency-reducing temperature}}]$  you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit;

#### 5. Power turn-off:

If the  $T_{\text{inner pipe}} < [T_{\text{frozen-preventing power turn-off temperature}}]$ , then frozen-preventing protect to stop the machine; If  $[T_{\text{frozen-preventing frequency-limited temperature}}] < T_{\text{inner pipe}}$ , and the compressor has stopped working for 3 minutes, the whole machine should be allowed to operate.

6. If the frozen-preventing protection power turn-off continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume if the fault keeps on. During the process of running, if the running time of compressor exceeds the t evaporator frozen-preventing protection times zero clearing time, the times of frozen-preventing power turn-off should be cleared to recount. The mode of stopping the machine or transferring to supply air will clear the trouble times immediately (if the trouble can not be resumed, mode transferring will not clear it).

### (5) Overload protection function

Overload protection function at the mode of cooling and dehumidifying

#### 1. Starting estimation:

After the compressor stopped working for 180s, if  $T_{\text{outer pipe}} < [T_{\text{Cooling overload frequency-limited temperature}}]$  (the temperature of hysteresis is 2°C), the machine is allowed to start, otherwise it should not be started, and should be stopped to treat according to the overload protection: Clear the trouble at the mode of power turn-off / heating, and the protection times are not counted.

#### 2. Frequency limited

If  $[T_{\text{Cooling overload frequency-limited temperature}}] \leq T_{\text{outer pipe}} [T_{\text{Cooling overload frequency reducing temperature at normal speed}}]$ , you should limit the frequency raising of compressor.

#### 3. Reducing frequency at normal speed and power turn-off:

If  $[T_{\text{Cooling overload frequency reducing temperature at high speed}}] \leq T_{\text{outer pipe}} < [T_{\text{Cooling overload power turn-off temperature}}]$ , you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was

running 90s at the lower limit, if  $[T_{\text{Cooling overload frequency reducing temperature at normal speed}}] \leq T_{\text{outer pipe}}$ , then Cooling overload protects machine stopping;

#### 4. Reducing frequency at high speed and stop machine:

If  $[T_{\text{Cooling overload frequency reducing temperature at high speed}}] \leq T_{\text{outer pipe}}$   $[T_{\text{Cooling overload power turn-off temperature}}]$ , you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if  $[T_{\text{Cooling overload frequency reducing temperature at normal speed}}] \leq [T_{\text{outer pipe}}]$ , then Cooling overload protects machine stopping;

#### 5. Power turn-off:

If the  $[T_{\text{Cooling overload power turn-off temperature}}] \leq T_{\text{outer pipe}}$ , then Cooling overload protects machine stopping; If  $[T_{\text{outer pipe}}] < [T_{\text{Cooling overload frequency-limited temperature}}]$  and the compressor has been stopped working for 3 minutes, the machine should be allowed to operate.

6. If the Cooling overload protection power turn-off continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume if the fault keeps on. During the process of running, if the running time of compressor exceeds the t overload protection times zero clearing time, the times of overload protection power turn-off should be cleared to recount. The mode of stopping the machine or transferring to supply air will clear the trouble times immediately (if the trouble can not be resumed, transferring mode will not clear it).

### Overload protection function at the mode of heating

#### Starting estimation :

After the compressor stopped working for 180s, if T inner pipe T heating overload frequency-limited temperature (the temperature of hysteresis is 2 ), the machine is allowed to start, otherwise it should not be started, and should be stopped to treat according to the overload protection:

Clear the trouble at the mode of power turn-off / heating, and the protection times are not counted.

#### 1. Frequency limited

If  $[T_{\text{heating overload frequency-limited temperature}}] \leq T_{\text{inner pipe}} < [T_{\text{heating overload frequency reducing temperature at normal speed}}]$ , you should limit the frequency raising of compressor.

#### 2. Reducing frequency at normal speed and stopping machine:

If  $[T_{\text{heating overload frequency reducing temperature at normal speed}}] \leq T_{\text{inner pipe}} < [T_{\text{heating overload frequency reducing temperature at high speed}}]$ , you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was running 90s at the lower limit, if  $T_{\text{heating overload frequency reducing temperature at normal speed}} \leq T_{\text{inner pipe}}$ , then overload protects machine stopping;

#### 3. Reducing frequency at high speed and power turn-off:

If  $[T_{\text{heating overload frequency reducing temperature at high speed}}] \leq T_{\text{inner pipe}} < [T_{\text{heating overload power turn-off temperature}}]$ , you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if T heating overload frequency reducing temperature at normal speed  $\leq T_{\text{outer pipe}}$ , then Cooling overload protects machine stopping;

#### 4. Power turn-off:

If the  $[T_{\text{heating overload power turn-off temperature}}] \leq T_{\text{inner pipe}}$ , then overload protects machine stopping; If T inner pipe T heating overload frequency-limited temperature and the compressor has been stopped working for 3 minutes, the machine should be allowed to operate.

5. If the overload protection power turn-off continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume if the fault keeps on. During the process of running, if the running time of compressor exceeds the t overload protection times zero clearing time, the times of overload protection power turn-off should be cleared to recount. The mode of stopping the machine or transferring to supply air will clear the trouble times immediately (if the trouble can not be resumed, transferring mode will not clear it). Protective function for discharge temperature of compressor

#### 1. Starting estimation:

After the compressor stopped working for 180s, if  $T_{\text{Discharge}} < T_{\text{Discharge limited temperature}}$  (the temperature of hysteresis is 2°C ), the machine is allowed to start, otherwise it should not be started, and should be stopped to treat according to the discharge temperature:

The machine should be stopped or transferred to supply air, the trouble should be cleared immediately, and the protection times are not counted.

#### 2. Frequency limited

If  $[T_{\text{limited frequency temperature during discharging}}] \leq T_{\text{Discharge}} < [T_{\text{frequency reducing temperature at normal speed during discharging}}]$ , you should limit the frequency raising of compressor.

#### 3. Reducing frequency at normal speed and stopping machine:

If  $[T_{\text{frequency reducing temperature at normal speed during discharging}}] \leq T_{\text{Discharge}} < [T_{\text{frequency reducing temperature at high speed during discharging}}]$ , you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was running 90s at the lower limit, if  $[T_{\text{frequency reducing temperature at normal speed during discharging}}] \leq T_{\text{Discharge}}$ , you should discharge to protect machine stopping;

#### 4. Reducing frequency at high speed and power turn-off:

If  $[T_{\text{frequency reducing temperature at high speed during discharging}}] \leq T_{\text{Discharge}} < [T_{\text{stop temperature during discharging}}]$ , you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if  $[T_{\text{frequency reducing temperature at normal speed during discharging}}] \leq T_{\text{Discharge}}$ , you should discharge to protect machine stopping;

#### 5. Power turn-off:

If the  $[T_{\text{Power turn-off temperature during discharging}}] \leq T_{\text{Discharge}}$ , you should discharge to protect machine stopping; If  $[T_{\text{Discharge}}] < [T_{\text{limited frequency temperature during discharging}}]$  and the compressor has been stopped for 3 minutes, the machine should be allowed to operate.

6. If the discharging temperature protection of compressor continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running time of

compressor exceeds the  $t_{\text{Protection times clearing of discharge}}$ , the discharge protection is cleared to recount. Stopped or transferred to supply air mode will clear the trouble times immediately (if the trouble can not be resumed, mode transferring also will not clear it).

### 7. Frequency limited

If  $[I_{\text{Limited frequency when overcurrent}}] \leq [I_{\text{AC Electric current}}] < [I_{\text{frequency reducing when overcurrent}}]$ , you should limit the frequency raising of compressor.

### 8. Reducing frequency:

If  $[I_{\text{Frequency reducing when overcurrent}}] \leq [I_{\text{AC Electric current}}]$  Power turn-off when overcurrent, you should reduce the compressor frequency till the lower limit or exit the frequency reducing condition;

### 9. Power turn-off:

If  $[I_{\text{Power turn-off machine when overcurrent}}] \leq [I_{\text{AC Electric current}}]$ , you should carry out the overcurrent stopping protection; If  $I_{\text{AC Electric current}} < [T_{\text{Limited frequency when overcurrent}}]$  and the compressor has been stopped for 3 minutes, the machine should be allowed to operate.

10. If the overcurrent protection continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running time of compressor exceeds the  $[t_{\text{Protection times clearing of over current}}]$ , the discharge protection is cleared to recount.

### (6)Voltage sag protection

After start the compressor, if the time of DC link Voltage sag  $[U_{\text{Sagging protection voltage}}]$  is measured to be less than  $t_{\text{Voltage sag protection time}}$ , the machine should be stop at once, hand on the voltage sag trouble, reboot automatically after 30 minutes.

### (7)Communication fault

When you have not received any correct signal from the inner machine in three minutes, the machine will stop for communication fault. When you have not received any correct signal from driver IC (aim to the controller for the separating of main control IC and driver IC), and the machine will stop for communication fault. If the communication is resumed, the machine will be allowed to operate.

### (8)Module protection

Testing the module protective signal immediately after started, once the module protective signal is measured, stop the machine with module protection immediately. If the module protection is resumed, the machine will be allowed to operate. If the module protection continuously occurs for three times, it should not be resumed automatically, and you should press the ON/OFF button to resume. If the running time of compressor exceeds the  $[t_{\text{Protection times clearing of module}}]$ , the module protection is cleared to recount.

### (9)Module overheating protection

#### 1. Starting estimation:

After the compressor stopped working for 180s, if  $T_{\text{Module}} < [T_{\text{Module frequency limited temperature}}]$  (the temperature of hysteresis is 2), the machine is allowed to start, otherwise it should not be started, and should be stopped to treat according to the module overheating protection: The machine should be stopped or transferred to supply air, the trouble should be cleared immediately, and the protection times are not counted.

### 2. Frequency limited

If  $[T_{\text{Limited frequency temperature of module}}] \leq T_{\text{Module}} < [T_{\text{frequency reducing temperature at normal speed of module}}]$ , you should limit the frequency raising of compressor.

### 3. Reducing frequency at normal speed and power turn-off:

If  $[T_{\text{frequency reducing temperature at normal speed of module}}] \leq T_{\text{Module}} < [T_{\text{frequency reducing temperature at high speed of module}}]$ , you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was running 90s at the lower limit, if  $[T_{\text{frequency reducing temperature at normal speed of module}}] \leq T_{\text{Module}}$ , you should stop the machine for module overheating protection;

### 4. Reducing frequency at high speed and power turn-off:

If  $[T_{\text{frequency reducing temperature at high speed of module}}] \leq T_{\text{Module}} < [T_{\text{Power turn-off temperature of module}}]$  you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if  $[T_{\text{frequency reducing temperature at normal speed of module}}] \leq T_{\text{Module}}$ , you should stop the machine for module overheating protection;

### 5. Power turn-off:

If the  $[T_{\text{Power turn-off temperature of module}}] \leq T_{\text{Module}}$ , you should stop the machine for module overheating protection; If  $T_{\text{Module}} < [T_{\text{Limited frequency temperature of module}}]$  and the compressor has been stopped for 3 minutes, the machine should be allowed to operate.

6. If protection continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running time of compressor exceeds the  $[t_{\text{Protection times clearing of module}}]$ , the discharge protection is cleared to recount. Stopped or transferred to supply air mode will clear the trouble times immediately (if the trouble can not be resumed, mode transferring also will not clear it).

### (10)Compressor overloads protection

If you measure the compressor overload switch action in 3s, the compressor should be stopped for overloading. The machine should be allowed to operate after overload protection was measured to resume. If the overloading protection continuously occurs for three times, it should not be resumed automatically, and you should press the ON/OFF button to resume. The protection times of compressor is allowed to clear after the compressor run  $[t_{\text{Protection times clearing of compressor overloading}}]$  30 minutes.

### (11)Phase current overcurrent protection of compressor

During the running process of compressor, you could measure the phase current of the compressor, and control it according to the following steps:

#### 1. Frequency limited

If  $[I_{\text{Limited frequency phase current}}] \leq [I_{\text{Phase current}}] < [I_{\text{frequency reducing phase current}}]$ , you should limit the frequency raising of compressor.

#### 2. Reducing Frequency

If  $[I_{\text{Frequency Reducing Phase Current}}] \leq [I_{\text{Phase Current}}] < [I_{\text{Power Turn-Off Phase Current}}]$ , the compressor shall continue to reduce frequency till the lowest frequency limit or out of the condition of reducing frequency;

#### 3. Power turn-off

If  $[I_{\text{Phase Current}}] \geq [I_{\text{Power Turn-Off Phase Current}}]$ , the compressor phase current shall stop working for overcurrent protection; if  $[I_{\text{Phase Current}}] \leq [I_{\text{Frequency Reducing Phase Current}}]$ , and the compressor have stopped working for 3 min, the machine shall be allowed to operate;



(3) When  $0^{\circ}\text{C} < T_{\text{outdoor amb.}} \leq 2^{\circ}\text{C}$ , the electric heating of chassis will keep original status.

#### 7. Electric Heating Function of Compressor

(1) When  $T_{\text{outdoor amb.}} \leq -5^{\circ}\text{C}$ , compressor stops operation, while the electric heating of compressor starts operation;

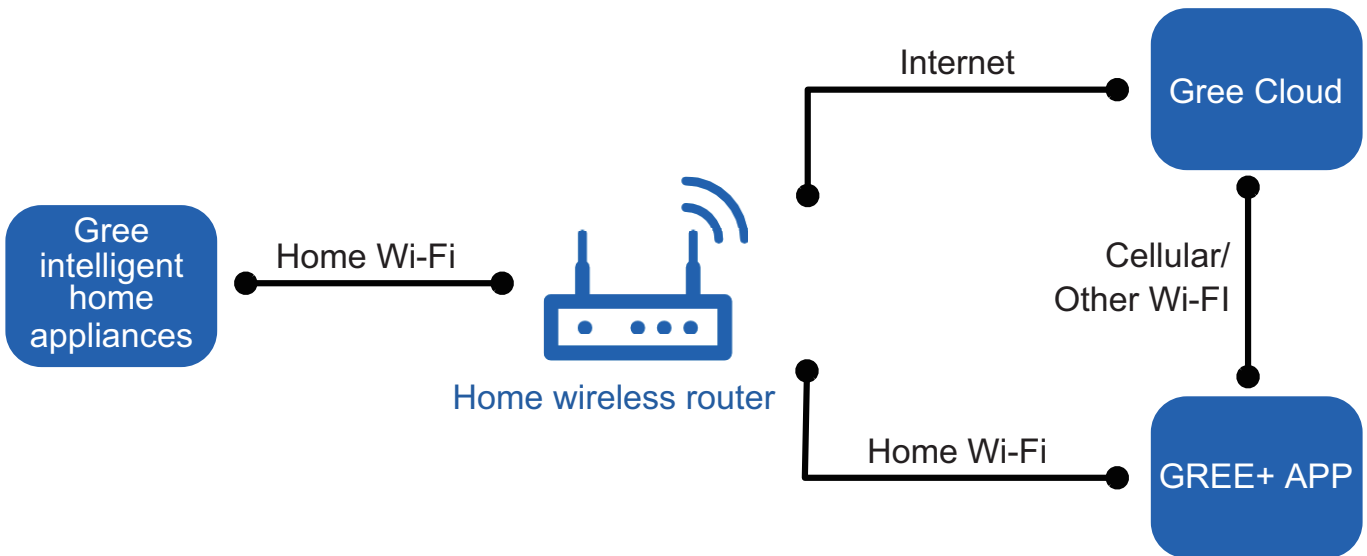
(2) When  $T_{\text{outdoor amb.}} > -2^{\circ}\text{C}$ , the electric heating of compressor stops operation;

(3) When  $-5^{\circ}\text{C} < T_{\text{outdoor amb.}} \leq -2^{\circ}\text{C}$ , the electric heating of compressor will keep original status.



## 6.3 GREE+ App Operation Manual

### Control Flow Chart



### Operating Systems

Requirement for User's smart phone:



iOS system  
Support iOS7.0 and  
above version



Android system  
Support Android 4.4 and  
above version

### Download and installation

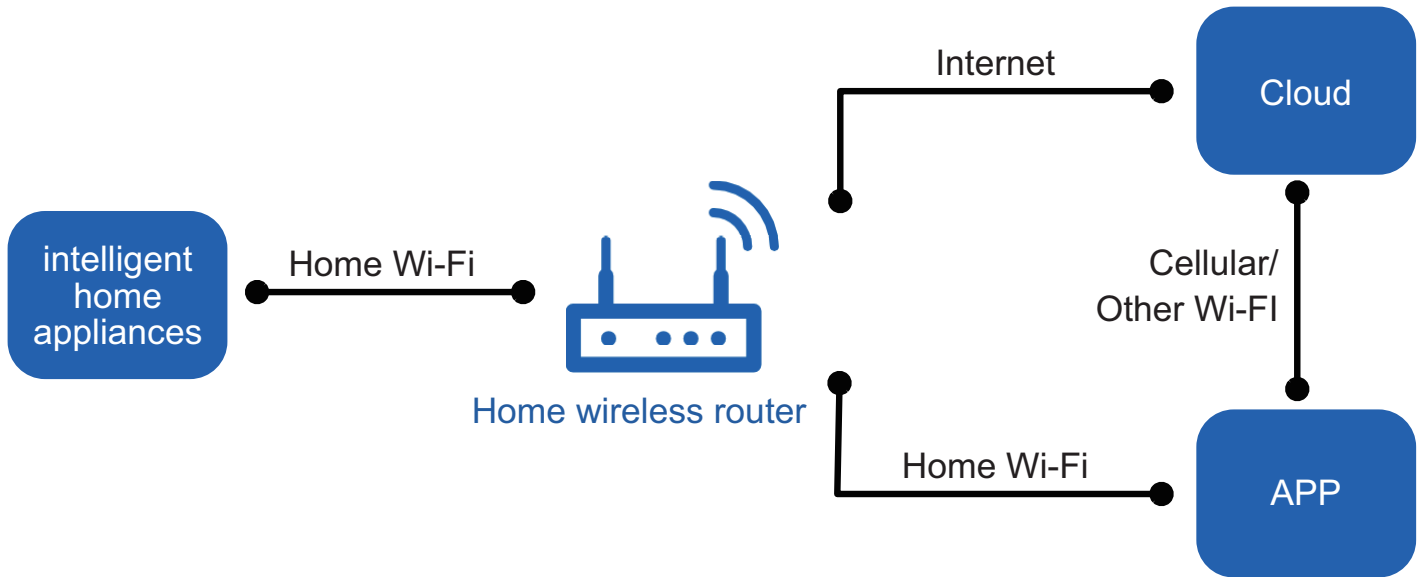


GREE+ App Download Linkage

Scan the QR code or search "GREE+" in the application market to download and install it. When "GREE+" App is installed, register the account and add the device to achieve long-distance control and LAN control of Gree smart home appliances. For more information, please refer to "Help" in App.

## 6.4 Ewpe Smart App Operation Manual

### Control Flow Chart



### Operating Systems

Requirement for User's smart phone:



iOS system  
Support iOS7.0 and  
above version



Android system  
Support Android 4.4 and  
above version

### Download and installation



App Download Linkage

Scan the QR code or search "Ewpe Smart" in the application market to download and install it. When "Ewpe Smart" App is installed, register the account and add the device to achieve long-distance control and LAN control of smart home appliances. For more information, please refer to "Help" in App.

# 7. Notes for Installation and Maintenance

## Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

- The installation or maintenance must accord with the instructions.
- Comply with all national electrical codes and local electrical codes.
- Pay attention to the warnings and cautions in this manual.
- All installation and maintenance shall be performed by distributor or qualified person.
- All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.
- Be caution during installation and maintenance. Prohibit incorrect operation to prevent electric shock, casualty and other accidents.



## WARNINGS

### Electrical Safety Precautions:

1. Cut off the power supply of air conditioner before checking and maintenance.
2. The air condition must apply specialized circuit and prohibit share the same circuit with other appliances.
3. The air conditioner should be installed in suitable location and ensure the power plug is touchable.
4. Make sure each wiring terminal is connected firmly during installation and maintenance.
5. Have the unit adequately grounded. The grounding wire cant be used for other purposes.
6. Must apply protective accessories such as protective boards, cable-cross loop and wire clip.
7. The live wire, neutral wire and grounding wire of power supply must be corresponding to the live wire, neutral wire and grounding wire of the air conditioner.
8. The power cord and power connection wires cant be pressed by hard objects.
9. If power cord or connection wire is broken, it must be replaced by a qualified person.
10. If the power cord or connection wire is not long enough, please get the specialized power cord or connection wire from the manufacture or distributor. Prohibit prolong the wire by yourself.

11. For the air conditioner without plug, an air switch must be installed in the circuit. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.

12. Make sure all wires and pipes are connected properly and the valves are opened before energizing.

13. Check if there is electric leakage on the unit body. If yes, please eliminate the electric leakage.

14. Replace the fuse with a new one of the same specification if it is burnt down; dont replace it with a cooper wire or conducting wire.

15. If the unit is to be installed in a humid place, the circuit breaker must be installed.

### Installation Safety Precautions:

1. Select the installation location according to the requirement of this manual.(See the requirements in installation part)
2. Handle unit transportation with care; the unit should not be carried by only one person if it is more than 20kg.
3. When installing the indoor unit and outdoor unit, a sufficient fixing bolt must be installed; make sure the installation support is firm.
4. Ware safety belt if the height of working is above 2m.
5. Use equipped components or appointed components during installation.
6. Make sure no foreign objects are left in the unit after finishing installation.

### Refrigerant Safety Precautions:

1. When refrigerant leaks or requires discharge during installation, maintenance, or disassembly, it should be handled by certified professionals or otherwise in compliance with local laws and regulations.
- 2.Avoid contact between refrigerant and fire as it generates poisonous gas; Prohibit prolong the connection pipe by welding.
3. Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture or other hazards.
4. Make sure no refrigerant gas is leaking out when installation is completed.
5. If there is refrigerant leakage, please take sufficient measure to minimize the density of refrigerant.
6. Never touch the refrigerant piping or compressor without wearing glove to avoid scald or frostbite.

**Improper installation may lead to fire hazard, explosion, electric shock or injury.**



# Safety Precautions for Installing and Relocating the Unit:

To ensure safety, please be mindful of the following precautions.

## WARNINGS

**1. When installing or relocating the unit, be sure to keep the refrigerant circuit free from air or substances other than the specified refrigerant.**

Any presence of air or other foreign substance in the refrigerant circuit will cause system pressure rise or compressor rupture, resulting in injury.

**2. When installing or moving this unit, do not charge the refrigerant which is not comply with that on the nameplate or unqualified refrigerant.**

Otherwise, it may cause abnormal operation, wrong action, mechanical malfunction or even series safety accident.

**3. When refrigerant needs to be recovered during relocating or repairing the unit, be sure that the unit is running in cooling mode. Then, fully close the valve at high pressure side (liquid valve). About 30-40 seconds later, fully close the valve at low pressure side (gas valve), immediately stop the unit and disconnect power. Please note that the time for refrigerant recovery should not exceed 1 minute.**

If refrigerant recovery takes too much time, air may be sucked in and cause pressure rise or compressor rupture, resulting in injury.

**4. During refrigerant recovery, make sure that liquid valve and gas valve are fully closed and power is disconnected before detaching the connection pipe.**

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

**5. When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.**

If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure rise or compressor rupture, resulting in injury.

**6. Prohibit installing the unit at the place where there may be leaked corrosive gas or flammable gas.**

If there leaked gas around the unit, it may cause explosion and other accidents.

**7. Do not use extension cords for electrical connections. If the electric wire is not long enough, please contact a local service center authorized and ask for a proper electric wire.**

Poor connections may lead to electric shock or fire.

**8. Use the specified types of wires for electrical connections between the indoor and outdoor units. Firmly clamp the wires so that their terminals receive no external stresses.**

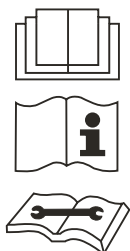
Electric wires with insufficient capacity, wrong wire connections and insecure wire terminals may cause electric shock or fire.

## Safety Precautions for Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and odorless. Furthermore, it can lead to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozone layer. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

### WARNING:

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. 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.)
- Do not pierce or burn.
- Appliance shall be installed, operated and stored in a room with a floor area larger than  $Xm^2$ .
- Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants do not contain odor.
- Read specialist manual.



## Safety Operation of Flammable Refrigerant

### Qualification requirement for installation and maintenance man

- All the workmen who are engaged in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- It can only be repaired by the method suggested by the equipment manufacturer.

## Installation notes

- The air conditioner is not allowed to use in a room that has running fire (such as fire source, working coal gas, ware, operating heater).
  - It is not allowed to drill hole or burn the connection pipe.
  - The air conditioner must be installed in a room that is larger than the minimum room area.
- The minimum room area is shown on the nameplate or following table a.
- Leak test is a must after installation.

table a - Minimum room area (  $m^2$  )

Charge amount (kg)	floor location	window mounted	wall mounted	ceiling mounted
≤1.2	/	/	/	/
1.3	14.5	5.2	1.6	1.1
1.4	16.8	6.1	1.9	1.3
1.5	19.3	7	2.1	1.4
1.6	22	7.9	2.4	1.6
1.7	24.8	8.9	2.8	1.8
1.8	27.8	10	3.1	2.1
1.9	31	11.2	3.4	2.3
2	34.3	12.4	3.8	2.6
2.1	37.8	13.6	4.2	2.8
2.2	41.5	15	4.6	3.1
2.3	45.4	16.3	5	3.4
2.4	49.4	17.8	5.5	3.7
2.5	53.6	19.3	6	4

## Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
  - Its only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
  - The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source in the maintenance area.
  - The naked flame is prohibited in the maintenance area; and the “no smoking” warning board should be hanged.
- Check whether the appliance mark is in good condition.
  - Replace the vague or damaged warning mark.

## Welding

- If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
  - a. Shut down the unit and cut power supply
  - b. Eliminate the refrigerant
  - c. Vacuuming
  - d. Clean it with  $N_2$  gas
  - e. Cutting or welding

**f. Carry back to the service spot for welding**

- Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.
- The refrigerant should be recycled into the specialized storage tank.

**Filling the refrigerant**

- Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant won't contaminate with each other.
- The refrigerant tank should be kept upright at the time of filling refrigerant.
- Stick the label on the system after filling is finished (or haven't finished).
- Don't overfilling.
- After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's removed.

**Safety instructions for transportation and storage**

- Please use the flammable gas detector to check before unload and open the container.
- No fire source and smoking.
- According to the local rules and laws.

# Main Tools for Installation and Maintenance



Level meter



Measuring tape



Screw driver



Impact drill



Drill head



Electric drill



Electroprobe



Universal meter



Torque wrench



Open-end wrench



Inner hexagon spanner



Electronic leakage detector



Vacuum pump



Pressure meter



Pipe pliers



Pipe pliers



Pipe cutter



Pipe expander



Pipe bender



Soldering appliance



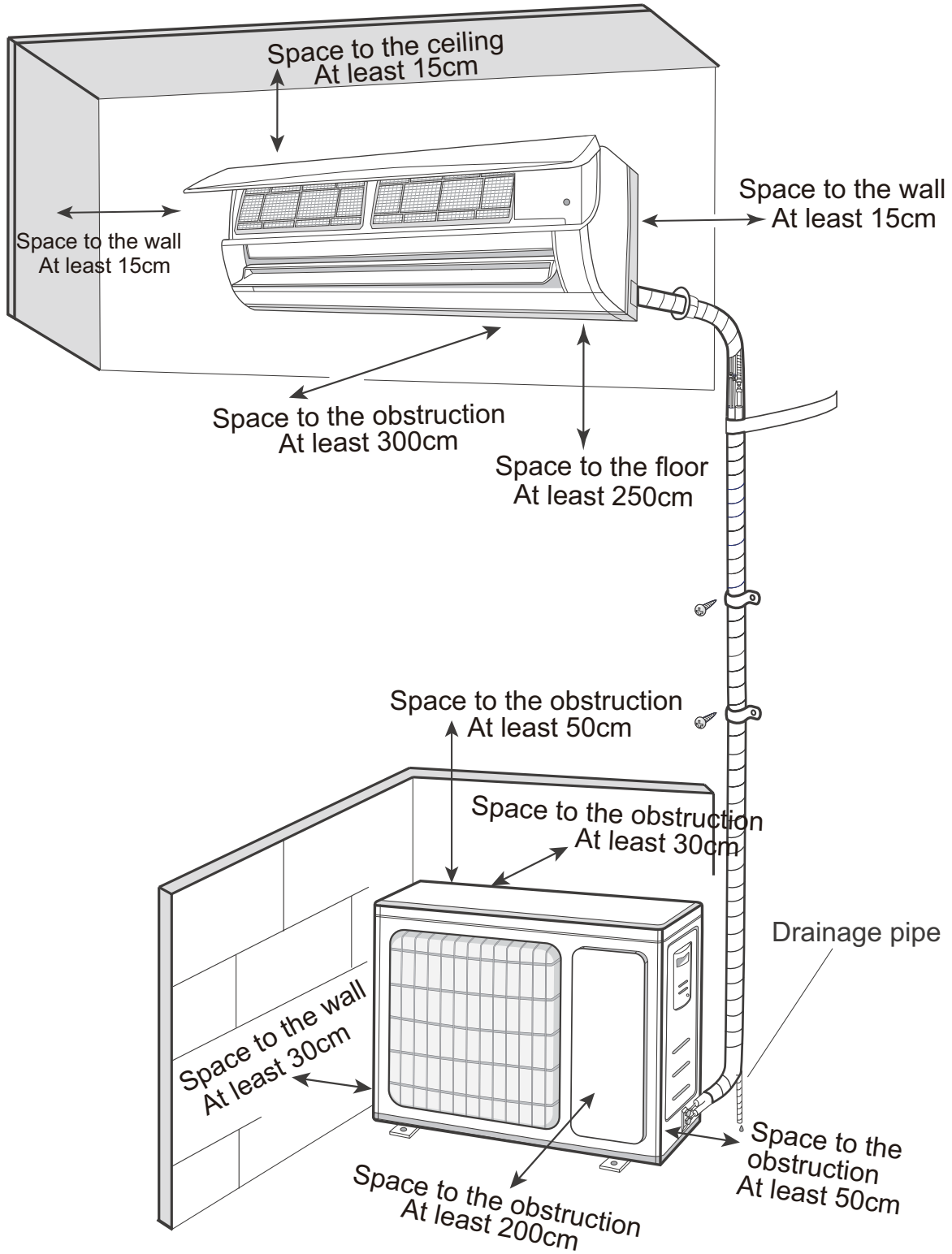
Refrigerant container



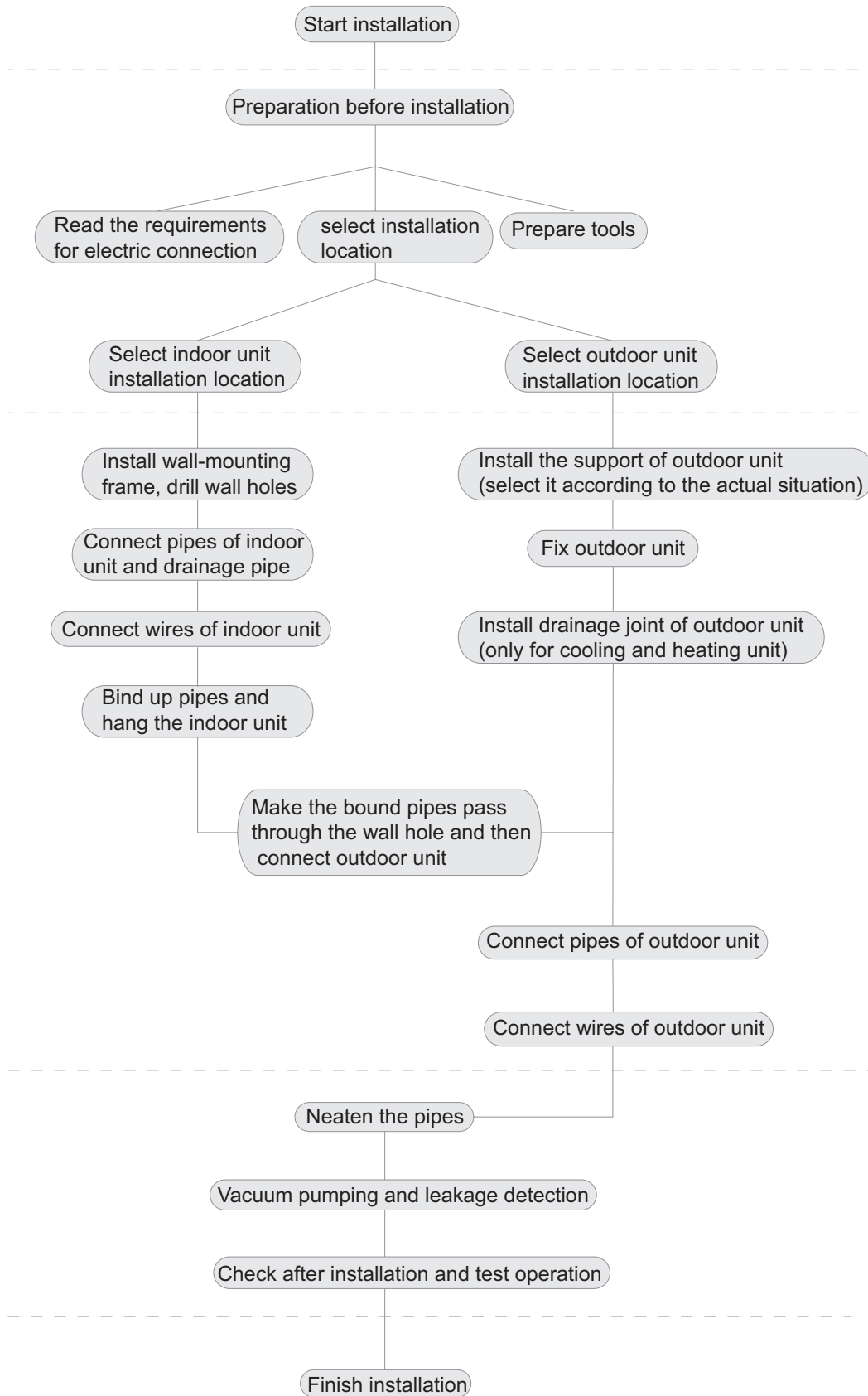
Electronic scale

# 8. Installation

## 8.1 Installation Dimension Diagram



## Installation Procedures



Note: this flow is only for reference; please find the more detailed installation steps in this se

## 8.2 Installation Parts-checking

No.	Name
1	Indoor unit
2	Outdoor unit
3	Connection pipe
4	Drainage pipe
5	Wall-mounting frame
6	Connecting cable(power cord)
7	Wall pipe
8	Sealing gum
9	Wrapping tape
10	Support of outdoor unit
11	Fixing screw
12	Drainage plug(cooling and heating unit)
13	Owners manual, remote controller

### ⚠ Note:

- 1.Please contact the local agent for installation.
- 2.Dont use unqualified power cord.

## 8.3 Selection of Installation Location

### 1. Basic Requirement:

Installing the unit in the following places may cause malfunction. If it is unavoidable, please consult the local dealer:

- (1) The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- (2) The place with high-frequency devices (such as welding machine, medical equipment).
- (3) The place near coast area.
- (4) The place with oil or fumes in the air.
- (5) The place with sulfured gas.
- (6) Other places with special circumstances.
- (7) The appliance shall not be installed in the laundry.
- (8) It's not allowed to be installed on the unstable or motive base structure(such as truck) or in the corrosive environment (such as chemical factory).

### 2. Indoor Unit:

- (1) There should be no obstruction near air inlet and air outlet.
- (2) Select a location where the condensation water can be dispersed easily and wont affect other people.
- (3) Select a location which is convenient to connect the outdoor unit and near the power socket.
- (4) Select a location which is out of reach for children.
- (5) The location should be able to withstand the weight of indoor unit and wont increase noise and vibration.
- (6) The appliance must be installed 2.5m above floor.
- (7) Dont install the indoor unit right above the electric appliance.
- (8) Please try your best to keep way from fluorescent lamp.

### 3. Outdoor Unit:

- (1) Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
- (2) The location should be well ventilated and dry, in which the outdoor unit wont be exposed directly to sunlight or strong wind.
- (3) The location should be able to withstand the weight of outdoor unit.
- (4) Make sure that the installation follows the requirement of installation dimension diagram.
- (5) Select a location which is out of reach for children and far away from animals or plants.If it is unavoidable, please add fence for safety purpose.

## 8.4 Electric Connection Requirement

### 1. Safety Precaution

- (1) Must follow the electric safety regulations when installing the unit.
- (2) According to the local safety regulations, use qualified power supply circuit and air switch.
- (3) Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring may result in electric shock,fire hazard or malfunction. Please install proper power supply cables before using the air conditioner.
- (4) Properly connect the live wire, neutral wire and grounding wire of power socket.
- (5) Be sure to cut off the power supply before proceeding any work related to electricity and safety.
- (6) Do not put through the power before finishing installation.
- (7) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard .
- (8) The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- (9) The appliance shall be installed in accordance with national wiring regulations.

### 2. Grounding Requirement:

- (1) The air conditioner is the first class electric appliance.It must be properly grounding with specialized grounding device by a professional.

Please make sure it is always grounded effectively,otherwise it may cause electric shock.

- (2) The yellow-green wire in air conditioner is grounding wire, which cant be used for other purposes.
- (3) The grounding resistance should comply with national electric safety regulations.
- (4) The appliance must be positioned so that the plug is accessible.
- (5) An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- (6) Including an air switch with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

Model	Air switch capacity	Power cord
07/09/12K	10A	3G1.0
18/24K(QD)	16A	3G1.5
24K(QE)	25A	3G2.5



## 8.5 Installation of Indoor Unit

### 1. Choosing Installation location

Recommend the installation location to the client and then confirm it with the client.

### 2. Install Wall-mounting Frame

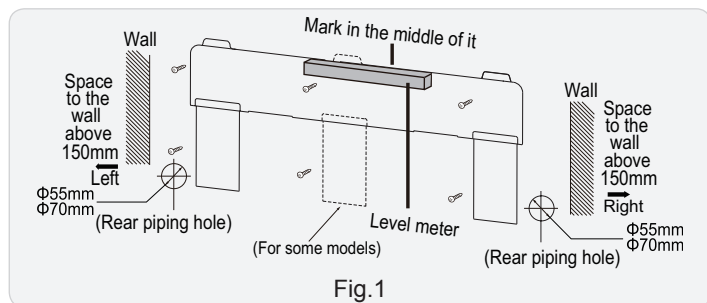
(1) Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.

(2) Drill the screw fixing holes on the wall with impact drill (the specification of drill head should be the same as the plastic expansion particle) and then fill the plastic expansion particles in the holes.

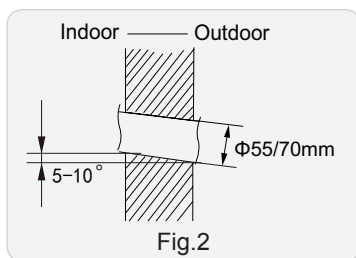
(3) Fix the wall-mounting frame on the wall with tapping screws and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

### 3. Install Wall-mounting Frame

(1) Choose the position of piping hole according to the direction of outlet pipe. The position of piping hole should be a little lower than the wall-mounted frame, shown as below. (As show in Fig.1)



(2) Open a piping hole with the diameter of  $\Phi 55\text{mm}$  or  $\Phi 70\text{mm}$  on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of  $5-10^\circ$ . (As show in Fig.2)



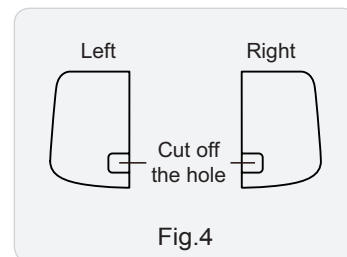
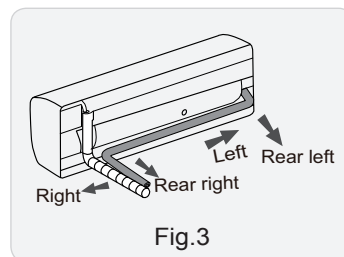
#### ⚠ Note:

Pay attention to dust prevention and take relevant safety measures when opening the hole.

### 4. Outlet Pipe

(1) The pipe can be led out in the direction of right, rear right, left or rear left. (As show in Fig.3)

(2) When selecting leading out the pipe from left or right, please cut off the corresponding hole on the bottom case. (As show in Fig.4)



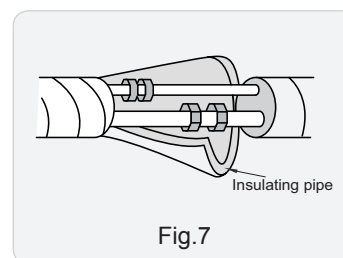
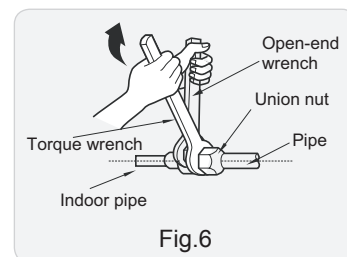
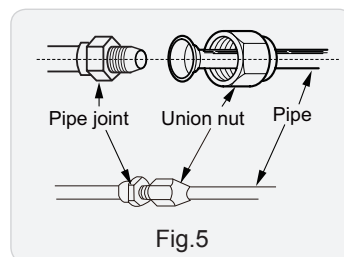
### 5. Connect the Pipe of Indoor Unit

(1) Aim the pipe joint at the corresponding bellmouth. (As show in Fig.5)

(2) Pretightening the union nut with hand.

(3) Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench. (As show in Fig.6)

(4) Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape. (As show in Fig.7)



Refer to the following table for wrench moment of force:

Piping size	Tightening torque(N·m)
1/4"	15~20
3/8"	30~40
1/2"	45~55
5/8"	60~65
3/4"	70~75



## 6. Install Drain Hose

(1) Connect the drain hose to the outlet pipe of indoor unit.(As show in Fig.8)

(2) Bind the joint with tape.(As show in Fig.9)

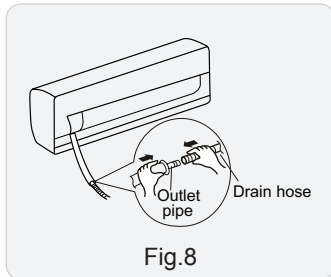


Fig.8

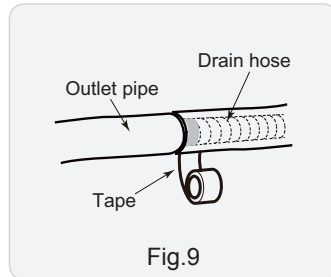


Fig.9

### ⚠ Note:

(1) Add insulating pipe in the indoor drain hose in order to prevent condensation.

(2) The plastic expansion particles are not provided.

(As show in Fig.10)

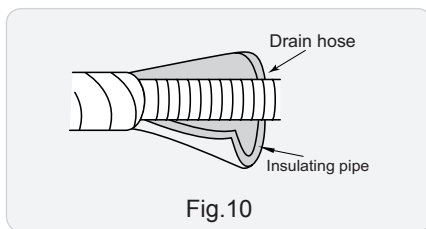


Fig.10

## 7. Connect Wire of Indoor Unit

(1) Open the panel, remove the screw on the wiring cover and then take down the cover.(As show in Fig.11)

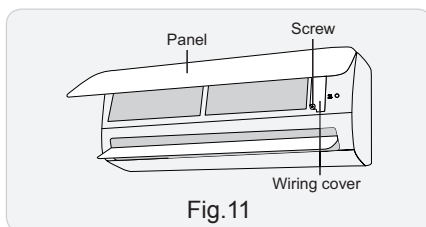


Fig.11

(2) Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.(As show in Fig.12)

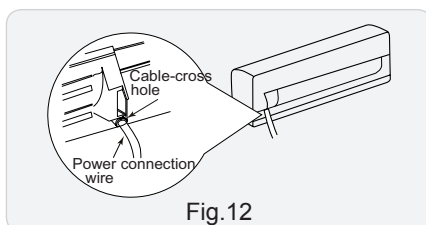


Fig.12

(3) Remove the wire clip; connect the power connection wire signal control wire (only for cooling and heating unit) to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip.(As show in Fig.13)

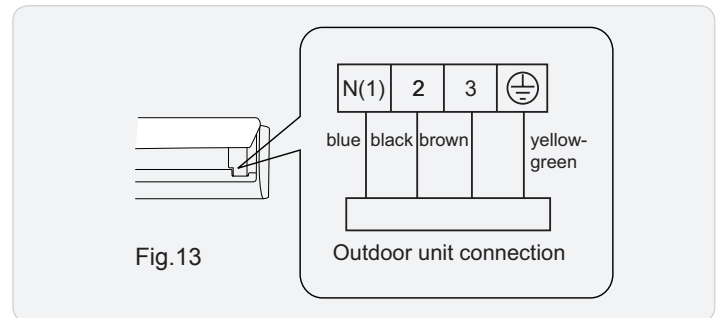


Fig.13

Note: The wiring connect is for reference only, please refer to the actual one.

(4) Put wiring cover back and then tighten the screw.

(5) Close the panel.

### ⚠ Note:

(1) All wires of indoor unit and outdoor unit should be connected by a professional.

(2) If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.

(3) For the air conditioner with plug, the plug should be reachable after finishing installation.

(4) For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.

## 8. Bind up Pipe

(1) Bind up the connection pipe, power cord and drain hose with the band.(As show in Fig.14)

(2) Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose.(As show in Fig.15)

(3) Bind them evenly.

(4) The liquid pipe and gas pipe should be bound separately at the end.

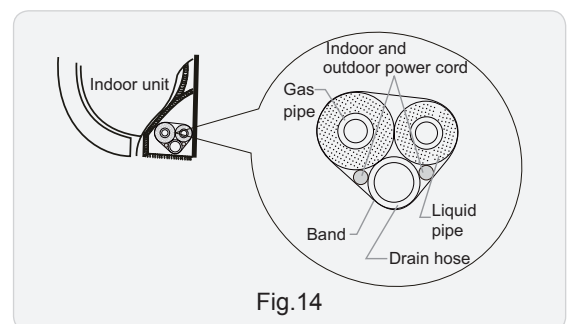


Fig.14

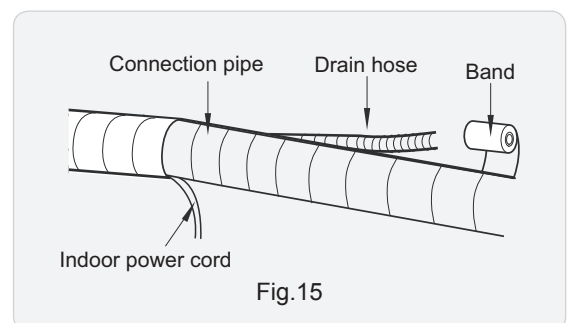


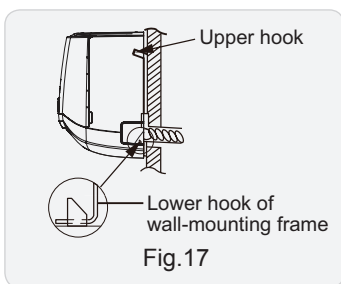
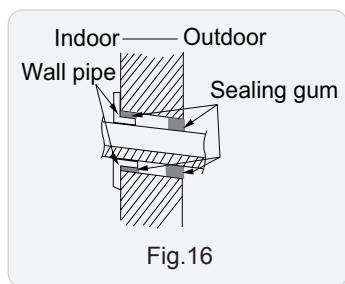
Fig.15

**⚠ Note:**

- (1) The power cord and control wire cant be crossed or winding.
- (2) The drain hose should be bound at the bottom.

**9. Hang the Indoor Unit**

- (1) Put the bound pipes in the wall pipe and then make them pass through the wall hole.
- (2) Hang the indoor unit on the wall-mounting frame.
- (3) Stuff the gap between pipes and wall hole with sealing gum.
- (4) Fix the wall pipe.(As show in Fig.16)
- (5) Check if the indoor unit is installed firmly and closed to the wall.(As show in Fig.17)



**⚠ Note:**

Do not bend the drain hose too excessively in order to prevent blocking.

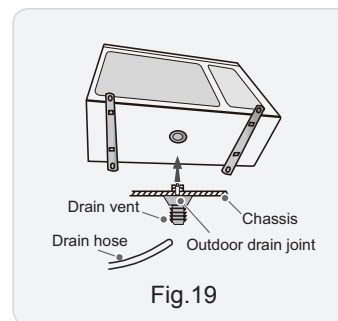
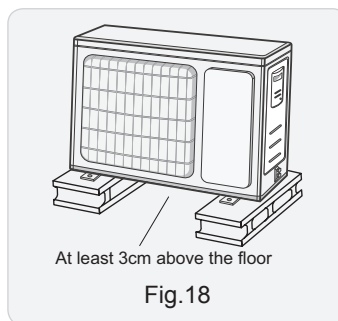
**8.6 Installation of Outdoor unit**

**1. Fix the Support of Outdoor Unit(Select it according to the actual installation situation)**

- (1) Select installation location according to the house structure.
- (2) Fix the support of outdoor unit on the selected location with expansion screws.

**⚠ Note:**

- (1) Take sufficient protective measures when installing the outdoor unit.
- (2) Make sure the support can withstand at least four times the unit weight.
- (3) The outdoor unit should be installed at least 3cm above the floor in order to install drain joint.(As show in Fig.18)
- (4) For the unit with cooling capacity of 2300W~5000W, 6 expansion screws are needed; for the unit with cooling capacity of 6000W~8000W, 8 expansion screws are needed; for the unit with cooling capacity of 10000W~16000W, 10 expansion screws are needed.

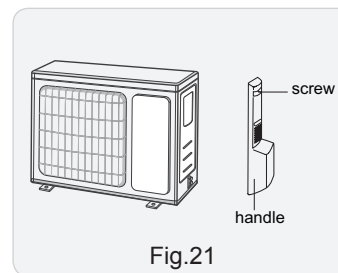
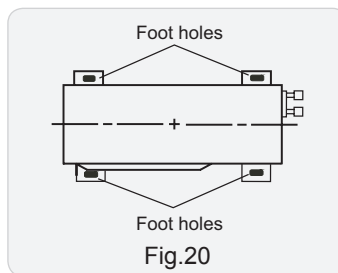


**2. Install Drain Joint(Only for cooling and heating unit)**

- (1) Connect the outdoor drain joint into the hole on the chassis.
  - (2) Connect the drain hose into the drain vent.
- (As show in Fig.19)

**3. Fix Outdoor Unit**

- (1) Place the outdoor unit on the support.
  - (2) Fix the foot holes of outdoor unit with bolts.
- (As show in Fig.20)

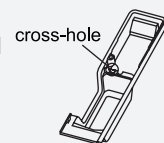


**4. Connect Indoor and Outdoor Pipes**

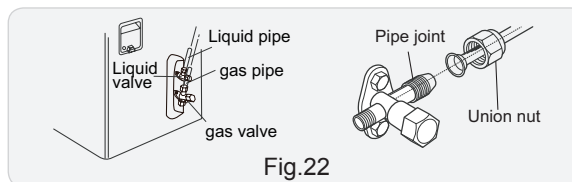
- (1) Remove the screw on the right handle of outdoor unit and then remove the handle.(As show in Fig.21)

**NOTE:**

- When there're multiple cables passing through it, the cross-hole of handle should be knocked off and eliminate the sharp burrs for avoid damaging the cables.
- Only applicable for some models.



- (2) Remove the screw cap of valve and aim the pipe joint at the bellmouth of pipe.(As show in Fig.22)



- (3) Pretightening the union nut with hand.
- (4) Tighten the union nut with torque wrench .

Refer to the following table for wrench moment of force:

Piping size	Tightening torque(N·m)
1/4"	15~20
3/8"	30~40
1/2"	45~55
5/8"	60~65
3/4"	70~75

## 5. Connect Outdoor Electric Wire

(1) Remove the wire clip; connect the power connection wire and signal control wire (only for cooling and heating unit) to the wiring terminal according to the color; fix them with screws.(As show in Fig.23)

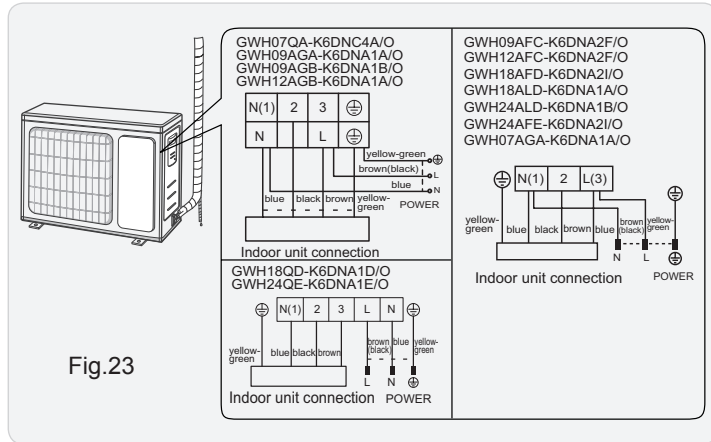


Fig.23

Note: the wiring connect is for reference only, please refer to the actual one.

(2) Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

### ⚠ Note:

- (1) After tightening the screw, pull the power cord slightly to check if it is firm.
- (2) Never cut the power connection wire to prolong or shorten the distance.

## 6. Neaten the Pipes

(1) The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.

(2) If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting into the room.(As show in Fig.24)

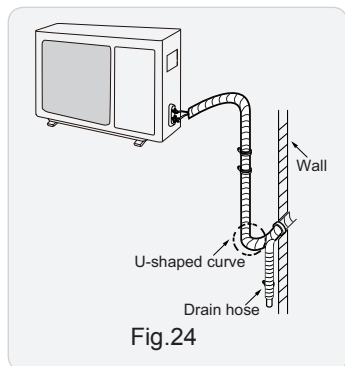


Fig.24

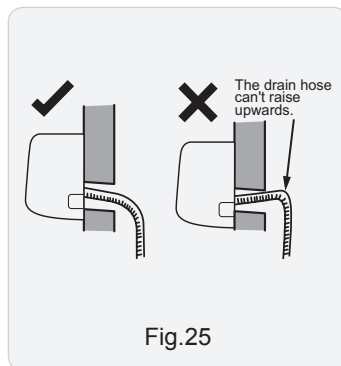


Fig.25

### ⚠ Note:

- (1) The through-wall height of drain hose shouldnt be higher than the outlet pipe hole of indoor unit.(As show in Fig.25)
- (2) Slant the drain hose slightly downwards. The drain hose cant be curved, raised and fluctuant, etc.(As show in Fig.26)
- (3) The water outlet cant be placed in water in order to drain smoothly.(As show in Fig.27)

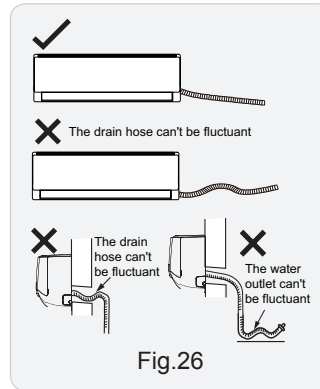


Fig.26

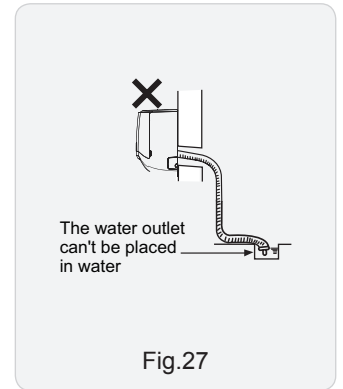


Fig.27

## 8.7 Vacuum Pumping and Leak Detection

### 1. Use Vacuum Pump

- (1) Remove the valve caps on the liquid valve and gas valve and the nut of refrigerant charging vent.
- (2) Connect the charging hose of piezometer to the refrigerant charging vent of gas valve and then connect the other charging hose to the vacuum pump.
- (3) Open the piezometer completely and operate for 10-15min to check if the pressure of piezometer remains in -0.1MPa.
- (4) Close the vacuum pump and maintain this status for 1-2min to check if the pressure of piezometer remains in -0.1MPa. If the pressure decreases, there may be leakage.
- (5) Remove the piezometer, open the valve core of liquid valve and gas valve completely with inner hexagon spanner.
- (6) Tighten the screw caps of valves and refrigerant charging vent.(As show in Fig.28)

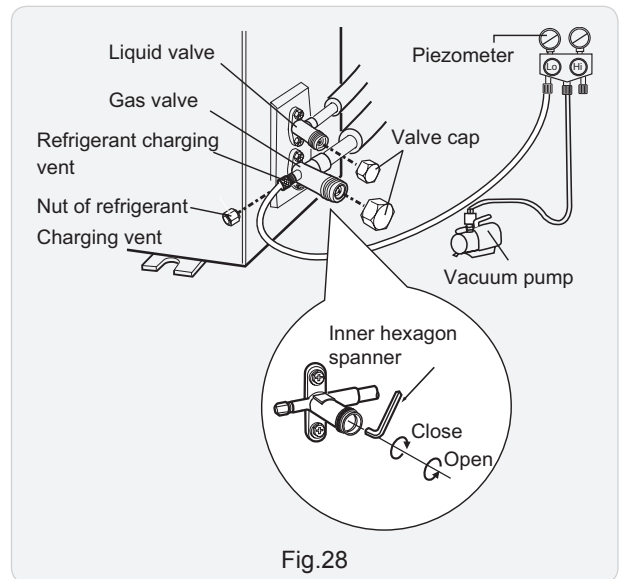


Fig.28

### 2. Leakage Detection

- (1) With leakage detector:  
Check if there is leakage with leakage detector.
- (2) With soap water:

If leakage detector is not available, please use soap water for leakage detection. Apply soap water at the suspected position and keep the soap water for more than 3min. If there are air bubbles coming out of this position, there's a leakage.

## 8.8 Check after Installation and Test operation

### 1. Check after Installation

Check according to the following requirement after finishing installation.

NO.	Items to be checked	Possible malfunction
1	Has the unit been installed firmly?	The unit may drop, shake or emit noise.
2	Have you done the refrigerant leakage test?	It may cause insufficient cooling (heating) capacity.
3	Is heat insulation of pipeline sufficient?	It may cause condensation and water dripping.
4	Is water drained well?	It may cause condensation and water dripping.
5	Is the voltage of power supply according to the voltage marked on the nameplate?	It may cause malfunction or damage the parts.
6	Is electric wiring and pipeline installed correctly?	It may cause malfunction or damage the parts.
7	Is the unit grounded securely?	It may cause electric leakage.
8	Does the power cord follow the specification?	It may cause malfunction or damage the parts.
9	Is there any obstruction in air inlet and air outlet?	It may cause insufficient cooling (heating) capacity.
10	The dust and sundries caused during installation are removed?	It may cause malfunction or damaging the parts.
11	The gas valve and liquid valve of connection pipe are open completely?	It may cause insufficient cooling (heating) capacity.
12	Is the inlet and outlet of piping hole been covered?	It may cause insufficient cooling(heating) capacity or waster eletricity.

### 2. Test Operation

(1) Preparation of test operation

- The client approves the air conditioner installation.
- Specify the important notes for air conditioner to the client.

(2) Method of test operation

- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than 16 °C , the air conditioner cant start cooling.

# 9. Maintenance

## 9.1 Error Code List

Malfunction Name	Display Method of Indoor Unit (Error Code)	A/C Status	Possible Causes(For specific maintenance method, please refer to the following procedure of troubleshooting)
High pressure protection of system	E1	During cooling and drying operation, except indoor fan operates, all loads stop operation. During heating operation, the complete unit stops.	Possible reasons: 1. Refrigerant was superabundant; 2. Poor heat exchange (including filth blockage of heat exchanger and bad radiating environment ); Ambient temperature is too high.
Antifreezing protection for evaporator	E2		Not the error code. It's the status code for the operation.
System block or refrigerant leakage	E3	The Dual-8 Code Display will show E3 until the low pressure switch stop operation.	1.Low-pressure protection 2.Low-pressure protection of system 3.Low-pressure protection of compressor
High discharge temperature protection of compressor	E4	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	Please refer to the malfunction analysis (discharge protection, overload).
Overcurrent protection	E5	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	1. Supply voltage is unstable; 2. Supply voltage is too low and load is too high; 3. Evaporator is dirty.
Communication Malfunction	E6	During cooling operation, compressor stops while indoor fan motor operates. During heating operation, the complete unit stops.	Refer to the corresponding malfunction analysis.
High temperature resistant protection	E8	During cooling operation: compressor will stop while indoor fan will operate. During heating operation, the complete unit stops.	Refer to the malfunction analysis (overload, high temperature resistant).
EEPROM malfunction	EE	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Replace outdoor control panel AP1
Limit/decrease frequency due to high temperature of module	EU	All loads operate normally, while operation frequency for compressor is decreased	Discharging after the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.
Malfunction protection of jumper cap	C5	Wireless remote receiver and button are effective, but can not dispose the related command	1. No jumper cap insert on mainboard. 2. Incorrect insert of jumper cap. 3. Jumper cap damaged. 4. Abnormal detecting circuit of mainboard.
Gathering refrigerant	F0	When the outdoor unit receive signal of Gathering refrigerant ,the system will be forced to run under cooling mode for gathering refrigerant	Nominal cooling mode
Indoor ambient temperature sensor is open/short circuited	F1	During cooling and drying operation, indoor unit operates while other loads will stop; during heating operation, the complete unit will stop operation.	1. Loosening or bad contact of indoor ambient temp. sensor and mainboard terminal. 2. Components in mainboard fell down leads short circuit. 3. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) 4. Mainboard damaged.
Indoor evaporator temperature sensor is open/short circuited	F2	AC stops operation once reaches the setting temperature. Cooling, drying: internal fan motor stops operation while other loads stop operation; heating: AC stop operation	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) 4. Mainboard damaged.



Outdoor ambient temperature sensor is open/short circuited	F3	During cooling and drying operating, compressor stops while indoor fan operates; During heating operation, the complete unit will stop operation	Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
Outdoor condenser temperature sensor is open/short circuited	F4	During cooling and drying operation, compressor stops while indoor fan will operate; During heating operation, the complete unit will stop operation.	Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
Outdoor discharge temperature sensor is open/short circuited	F5	During cooling and drying operation, compressor will stop after operating for about 3 mins, while indoor fan will operate; During heating operation, the complete unit will stop after operating for about 3 mins.	1. Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2. The head of temperature sensor hasn't been inserted into the copper tube
Limit/decrease frequency due to overload	F6	All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)
Decrease frequency due to overcurrent	F8	All loads operate normally, while operation frequency for compressor is decreased	The input supply voltage is too low; System pressure is too high and overload
Decrease frequency due to high air discharge	F9	All loads operate normally, while operation frequency for compressor is decreased	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
Limit/decrease frequency due to antifreezing	FH	All loads operate normally, while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low
Voltage for DC bus-bar is too high	PH	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2. If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, there's malfunction for the circuit, please replace the control panel (AP1)
Voltage of DC bus-bar is too low	PL	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 150VAC, turn on the unit after the supply voltage is increased to the normal range. 2. If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, there's malfunction for the circuit, please replace the control panel (AP1)
Compressor Min frequency in test state	P0		Showing during min. cooling or min. heating test
Compressor rated frequency in test state	P1		Showing during nominal cooling or nominal heating test
Compressor maximum frequency in test state	P2		Showing during max. cooling or max. heating test
Compressor intermediate frequency in test state	P3		Showing during middle cooling or middle heating test
Overcurrent protection of phase current for compressor	P5	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor).
Charging malfunction of capacitor	PU	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Refer to the part three—charging malfunction analysis of capacitor

Malfunction of module temperature sensor circuit	P7	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Replace outdoor control panel AP1
Module high temperature protection	P8	During cooling operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	After the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If its no use, please replace control panel AP1.
Overload protection for compressor	H3	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1. Wiring terminal OVC-COMP is loosened. In normal state, the resistance for this terminal should be less than 1ohm. 2.Refer to the malfunction analysis ( discharge protection, overload)
IPM protection	H5	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
Malfunction of zero-cross detection circuit	U8	The complete unit stops	1.Power supply is abnormal; 2.Detection circuit of indoor control mainboard is abnormal.
Internal motor (fan motor) do not operate	H6	Internal fan motor, external fan motor, compressor and electric heater stop operation,guide louver stops at present location.	1. Bad contact of DC motor feedback terminal. 2. Bad contact of DC motor control end. 3. Fan motor is stalling. 4. Motor malfunction. 5. Malfunction of mainboard revdetecting circuit.
Desynchro-nizing of compressor	H7	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
PFC protection	HC	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis
Outdoor DC fan motor malfunction	L3	Outdoor DC fan motor malfunction lead to compressor stop operation,	DC fan motor malfunction or system blocked or the connector loosed
power protection	L9	compressor stop operation and Outdoor fan motor will stop 30s latter , 3 minutes latter fan motor and compressor will restart	To protect the electronical components when detect high power
Indoor unit and outdoor unit doesnt match	LP	compressor and Outdoor fan motor cant work	Indoor unit and outdoor unit doesnt match
Failure start-up	LC	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis
Defrosting	Heating indicator off for 0.5s and then blinks for 10s	Defrosting will occur in heating mode. Compressor will operate while indoor fan will stop operation.	Not the error code. It's the status code for the operation
The four-way valve is abnormal	U7	If this malfunction occurs during heating operation, the complete unit will stop operation.	1.Supply voltage is lower than AC175V; 2.Wiring terminal 4V is loosened or broken; 3.4V is damaged, please replace 4V.

Malfunction of phase current detection circuit for compressor	U1	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Replace outdoor control panel AP1
Malfunction of voltage dropping for DC busbar	U3	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Supply voltage is unstable
Malfunction of complete units current detection	U5	During cooling and drying operation, the compressor will stop while indoor fan will operate; During heating operating, the complete unit will stop operation.	Theres circuit malfunction on outdoor units control panel AP1, please replace the outdoor units control panel AP1.
Cold air prevention protection	E9		Not the error code. It's the status code for the operation.
Refrigerant recovery mode	Fo		Refrigerant recovery. The Serviceman operates it for maintenance.
Malfunction of detecting plate(WIFI)	JF	Loads operate normally, while the unit can't be normally controlled by APP.	1.Main board of indoor unit is damaged; 2.Detection board is damaged; 3.The connection between indoor unit and detection board is not good;
Undefined outdoor unit error	oE	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stop operation.	1. Outdoor ambient temperature exceeds the operation range of unit (eg: less than- 20°C or more than 60°C for cooling; more than 30°C for heating); 2. Failure startup of compressor? 3. Are wires of compressor not connected tightly? 4. Is compressor damaged? 5. Is main board damaged?

## Analysis or processing of some of the malfunction display:

### 1. Compressor discharge protection

Possible causes: shortage of refrigerant; blockage of air filter; poor ventilation or air flow short pass for condenser; the system has noncondensing gas (such as air, water etc.); blockage of capillary assy (including filter); leakage inside four-way valve causes incorrect operation; malfunction of compressor; malfunction of protection relay; malfunction of discharge sensor; outdoor temperature too high.

Processing method: refer to the malfunction analysis in the above section.

### 2. Low voltage overcurrent protection

Possible cause: Sudden drop of supply voltage.

### 3.Communication malfunction

Processing method: Check if communication signal cable is connected reliably.

### 4. Sensor open or short circuit

Processing method: Check whether sensor is normal, connected with the corre sponding position on the controller and if damage of lead wire is found.

### 5. Compressor over load protection

Possible causes: insufficient or too much refrigerant; blockage of capillary and increase of suction temp.; improper running of compressor, burning in or stuck of bearing, damage of discharge valve; malfunction of protector.

Processing method: adjust refrigerant amount; replace the capillary; replace the compressor; use universal meter to check if the contactor of compress or is fine when it is not overheated, if not replace the protector.

### 6. System malfunction

i.e.overload protection.When tube temperature(Check the temperature of outdoor heat exchanger when cooling and check the temperatur e of indoor heat exchanger when heating) is too high, protection will be activated.

Possible causes: Outdoor temperature is too high when cooling; insufficient outdoor air circulation; refrigerant flow malfunction.

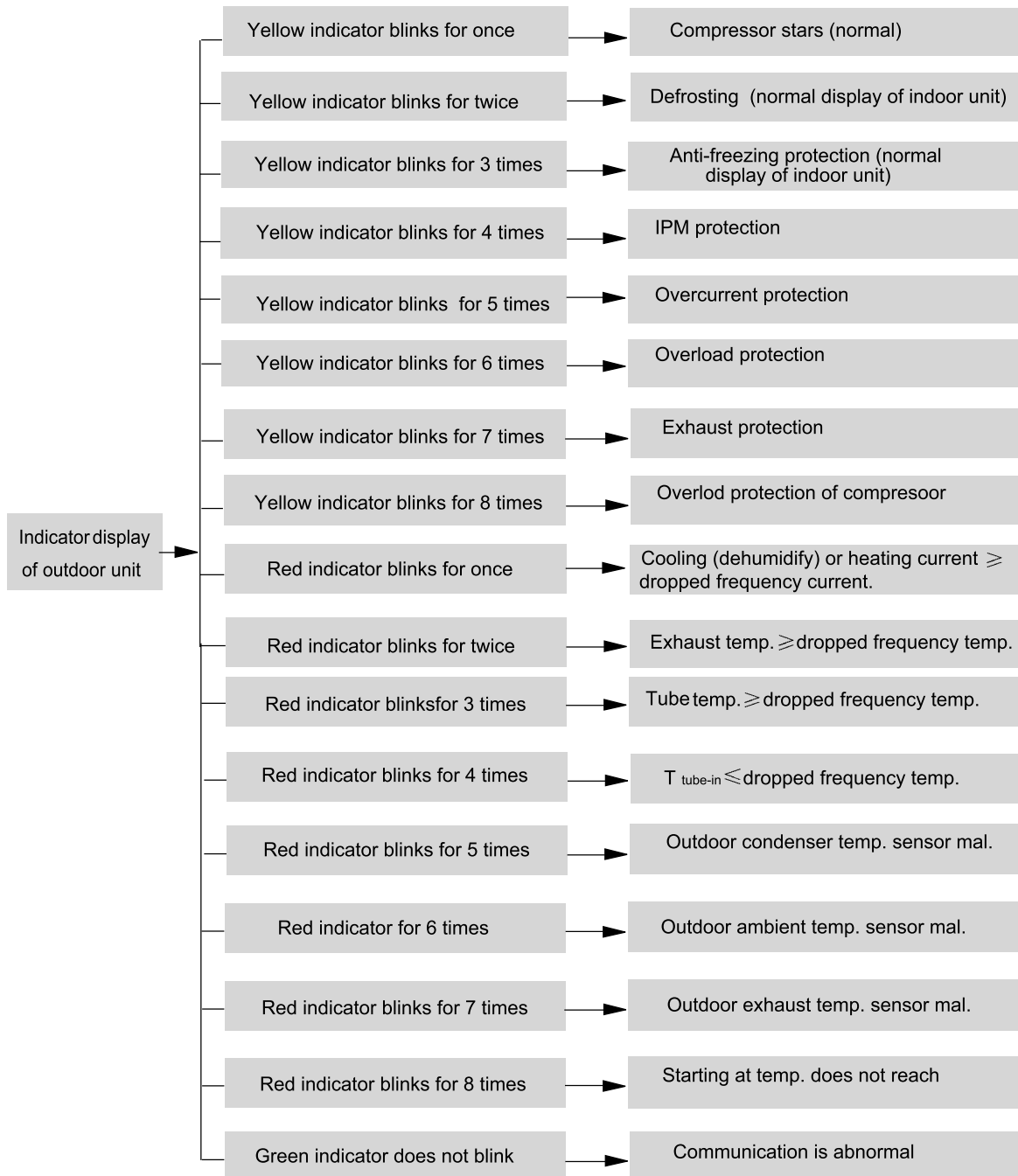
please refer to the malfunction analysis in the previous section for handling method .

### 7. IPM module protection

Processing method:Once the module malfunction happens,if it persists for a long time and can not be selfcanceled, cut off the power and turn off the unit,and then re-energize the unit again after about 10 min.After repeating the procedure for sever times, if the malfunction still exists,replace the module.



If malfunction occurs, corresponding code will display and the unit will resume normal until protection or malfunction disappears.



## 9.2 Procedure of Troubleshooting

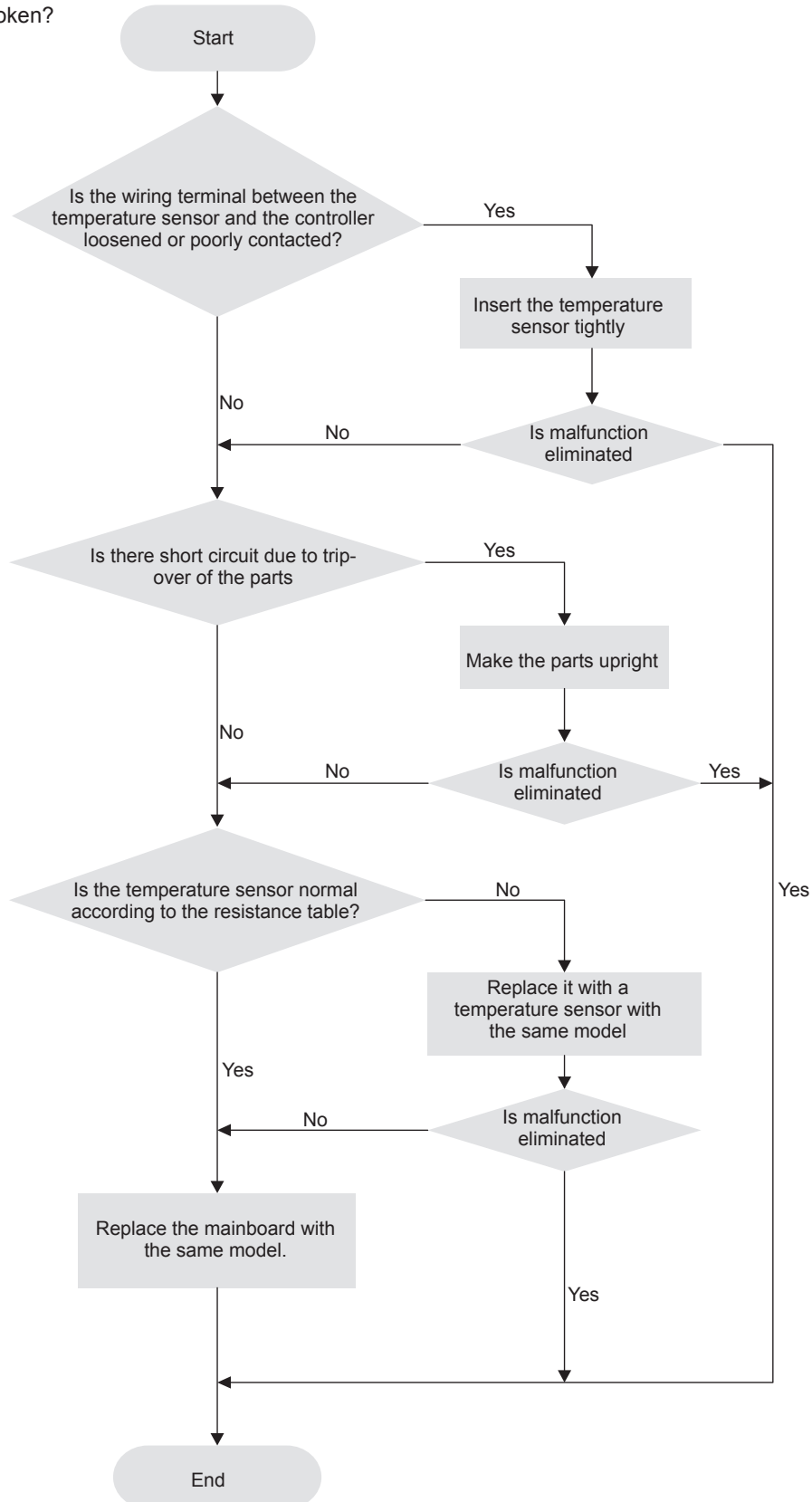
### ●Indoor unit:

#### 1. Malfunction of Temperature Sensor F1, F2

Main detection points:

- Is the wiring terminal between the temperature sensor and the controller loosened or poorly contacted?
- Is there short circuit due to trip-over of the parts?
- Is the temperature sensor broken?
- Is mainboard broken?

Malfunction diagnosis process:

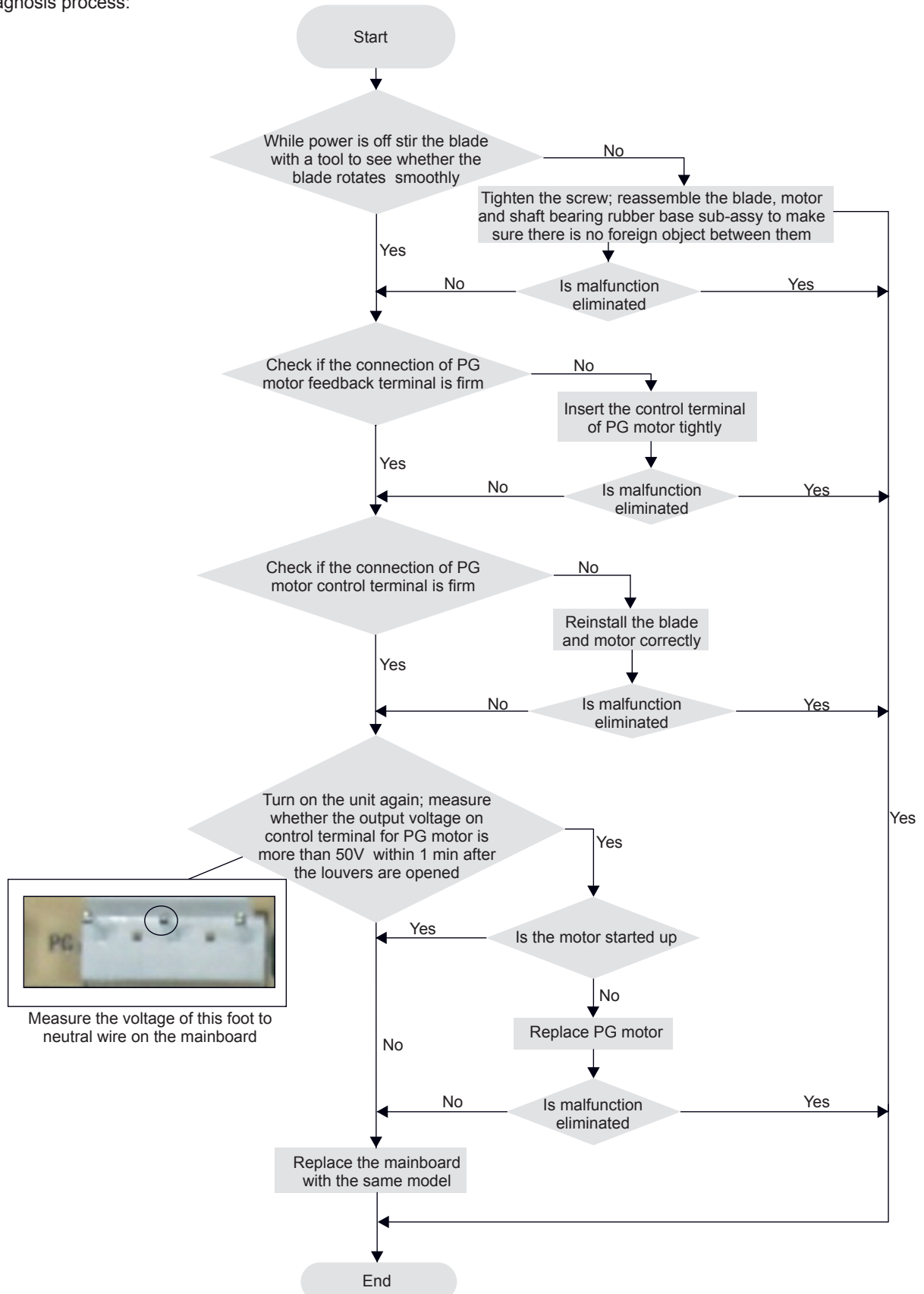


## 2. Malfunction of Blocked Protection of IDU Fan Motor H6

Main detection points:

- Smoothly Is the control terminal of PG motor connected tightly?
- Smoothly Is the feedback interface of PG motor connected tightly?
- The fan motor can't operate?
- The motor is broken?
- Detection circuit of the mainboard is defined abnormal?

Malfunction diagnosis process:

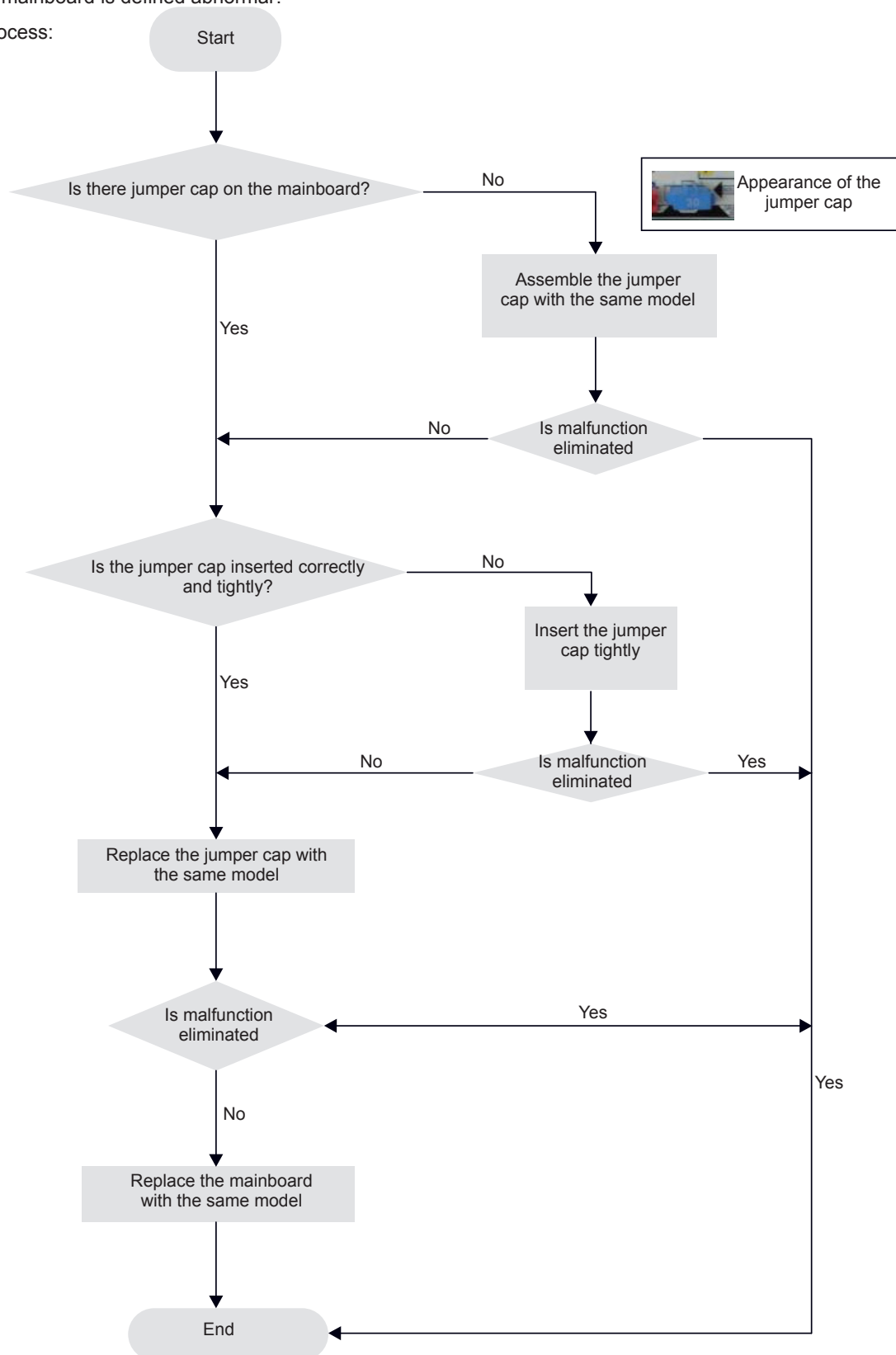


### 3. Malfunction of Protection of Jumper Cap C5

Main detection points:

- Is there jumper cap on the mainboard?
- Is the jumper cap inserted correctly and tightly?
- The jumper is broken?
- The motor is broken?
- Detection circuit of the mainboard is defined abnormal?

Malfunction diagnosis process:

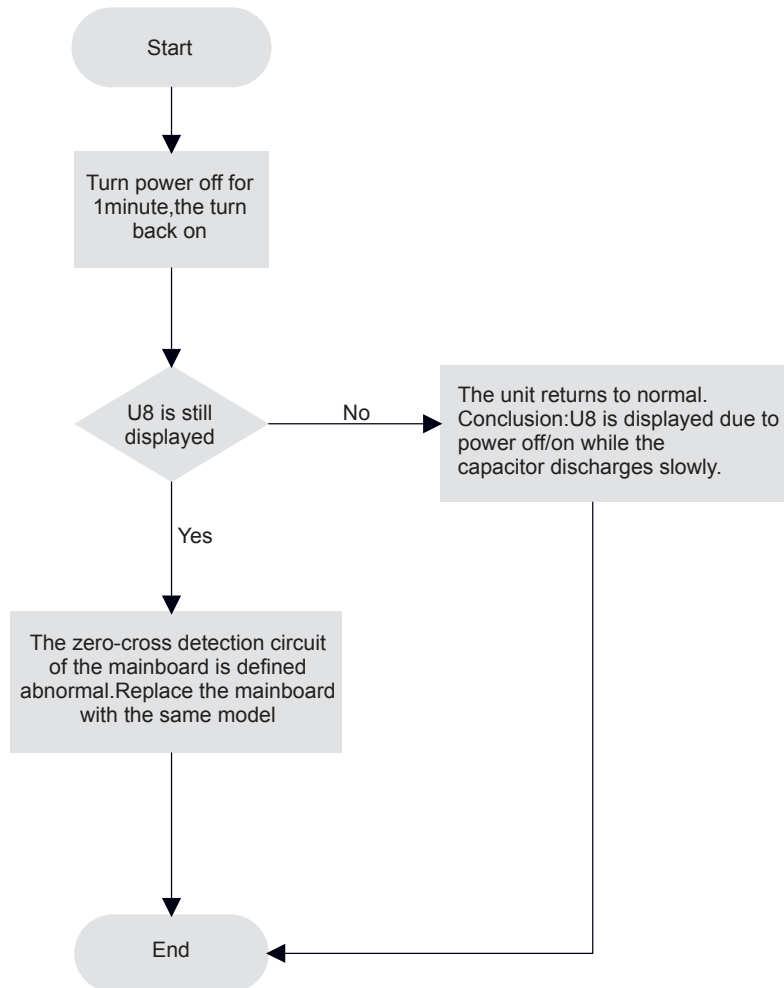


#### 4. Malfunction of Zero-crossing Inspection Circuit Malfunction of the IDU Fan Motor U8

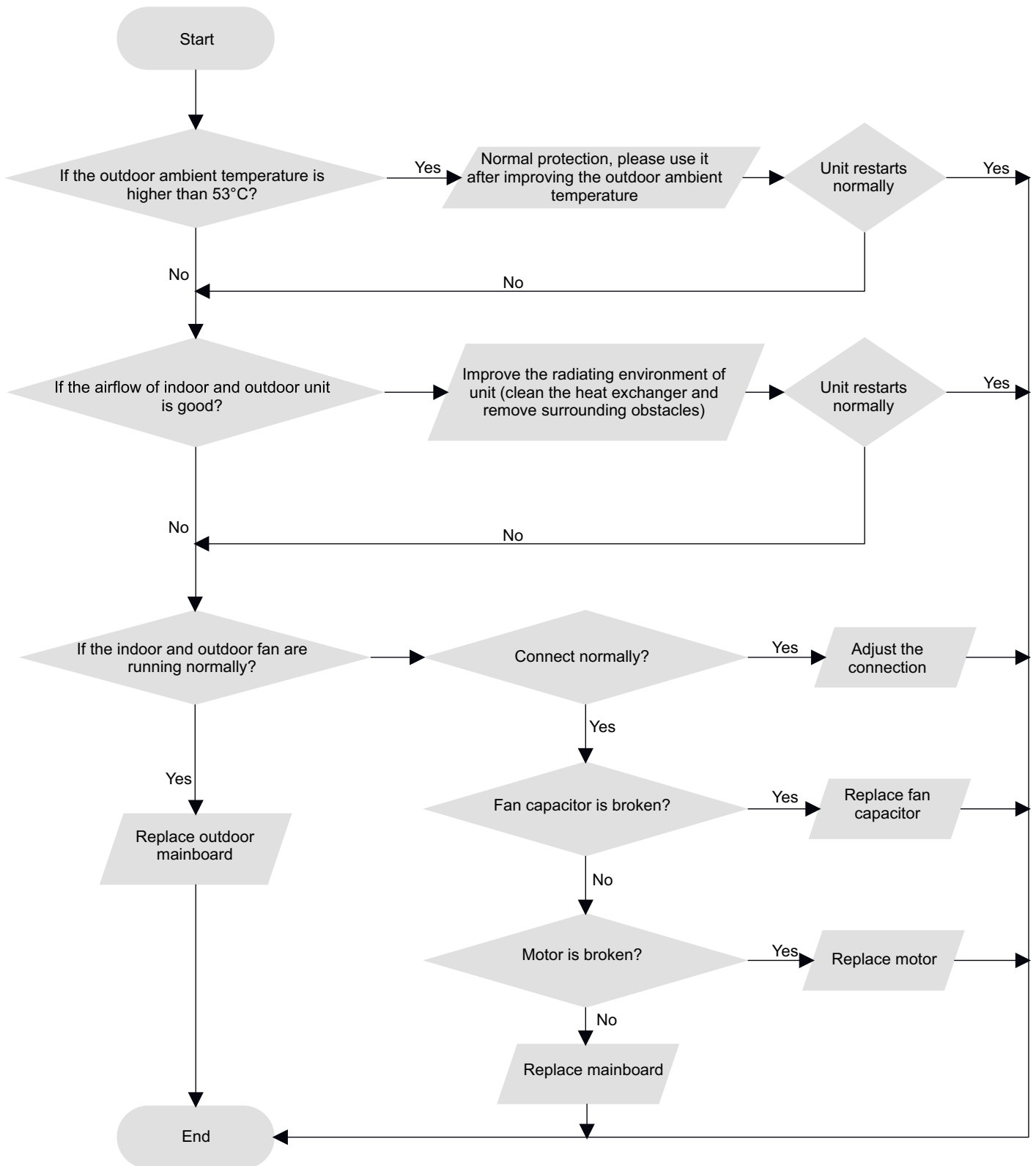
Main detection points:

- Instant energization after de-energization while the capacitor discharges slowly?
- The zero-cross detection circuit of the mainboard is defined abnormal?

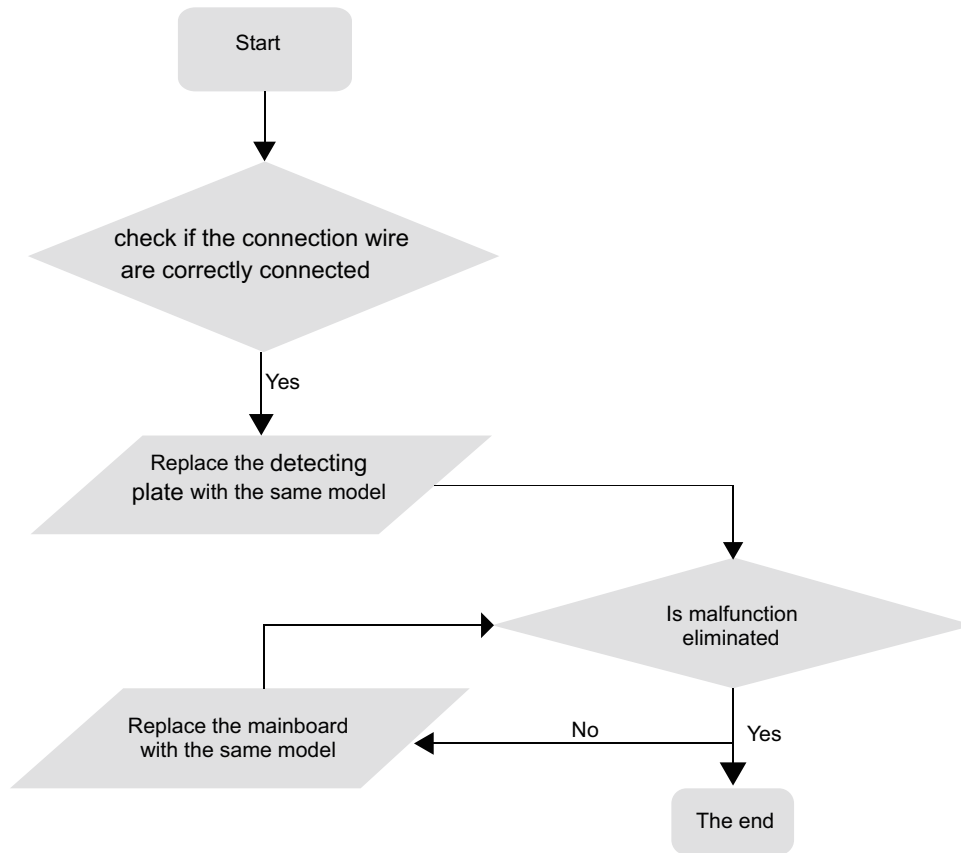
Malfunction diagnosis process:



## 5. High Temperature and Overload Protection (AP1 below means control board of outdoor unit) E8



## 6. Malfunction of detecting plate(WIFI) JF





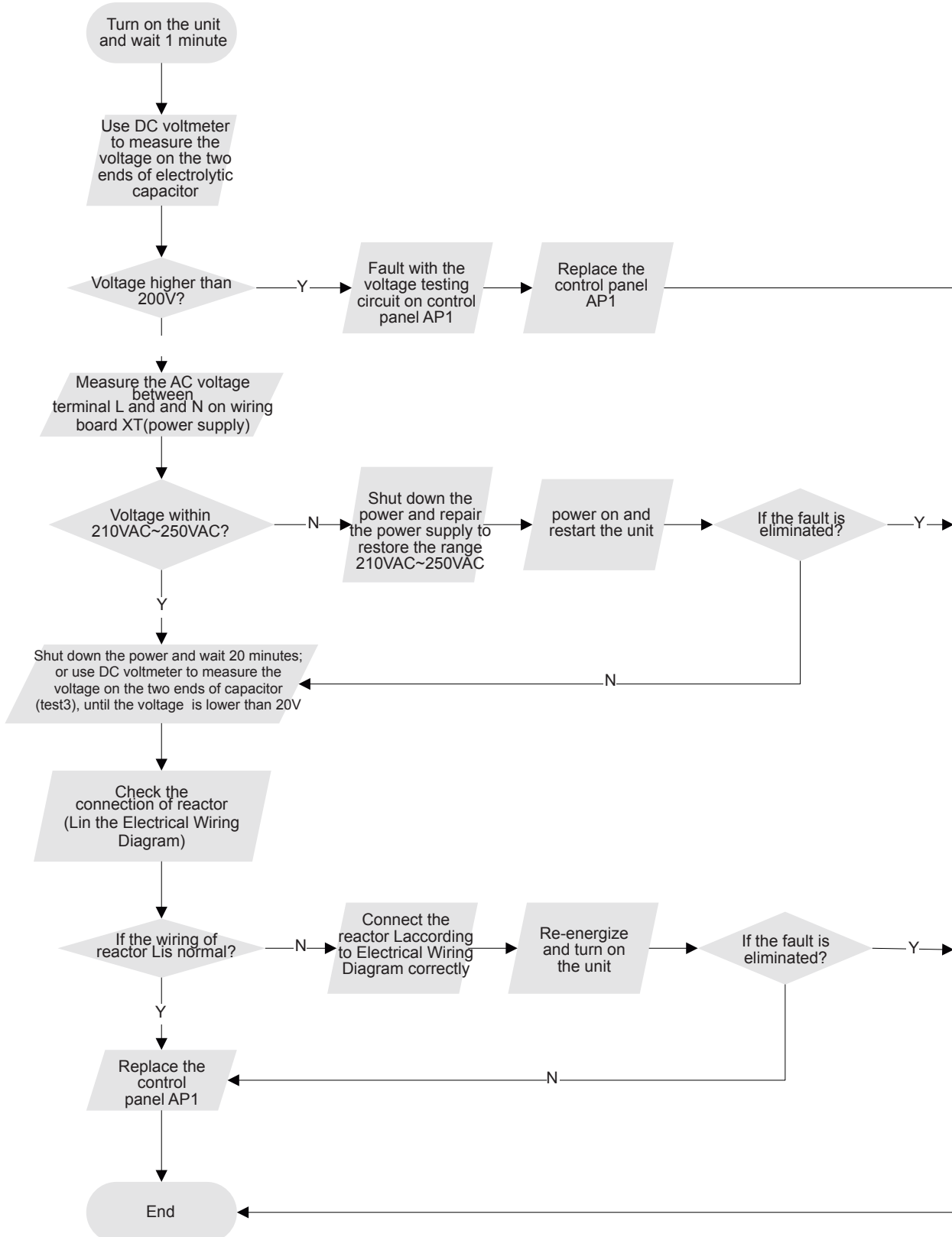
●Outdoor unit:

1.Capacity charging malfunction (outdoor unit malfunction) (AP1 below is control board of outdoor unit)

Main detection point:

- Detect if the voltage of L and N terminal of wiring board is between 210AC-240AC by alternating voltage meter;
- Is reactor (L) well connected? Is connection wire loosened or pull-out? Is reactor (L) damaged?

Malfunction diagnosis process:

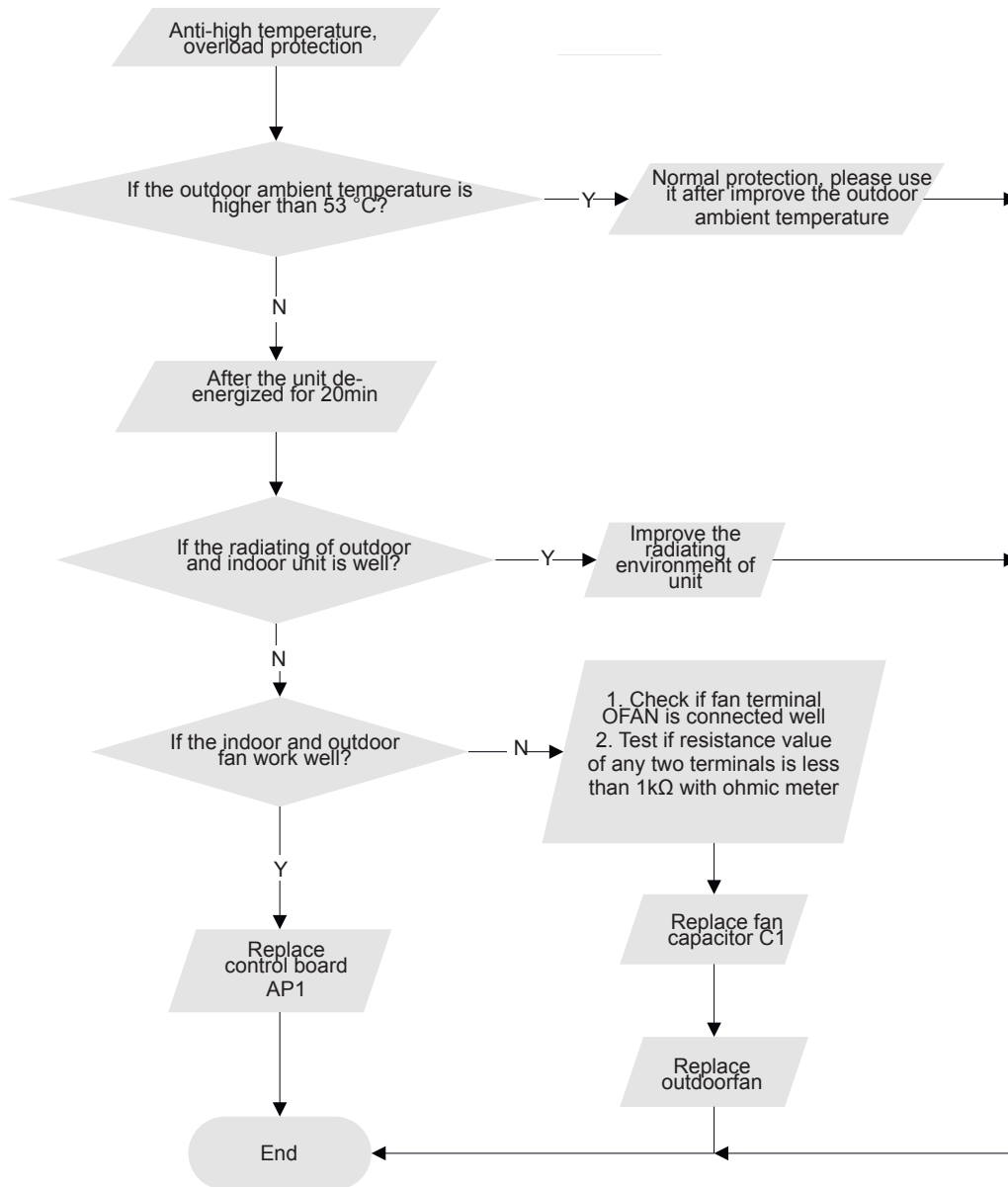


## 2.Diagnosis for anti-high temperature, overload protection (AP1 below is control board of outdoor unit)

Main detection point:

- If the outdoor ambient temperature is in normal range;
- If the indoor and outdoor fan is running normal;
- If the radiating environment of indoor and outdoor unit is well.

Malfunction diagnosis process:

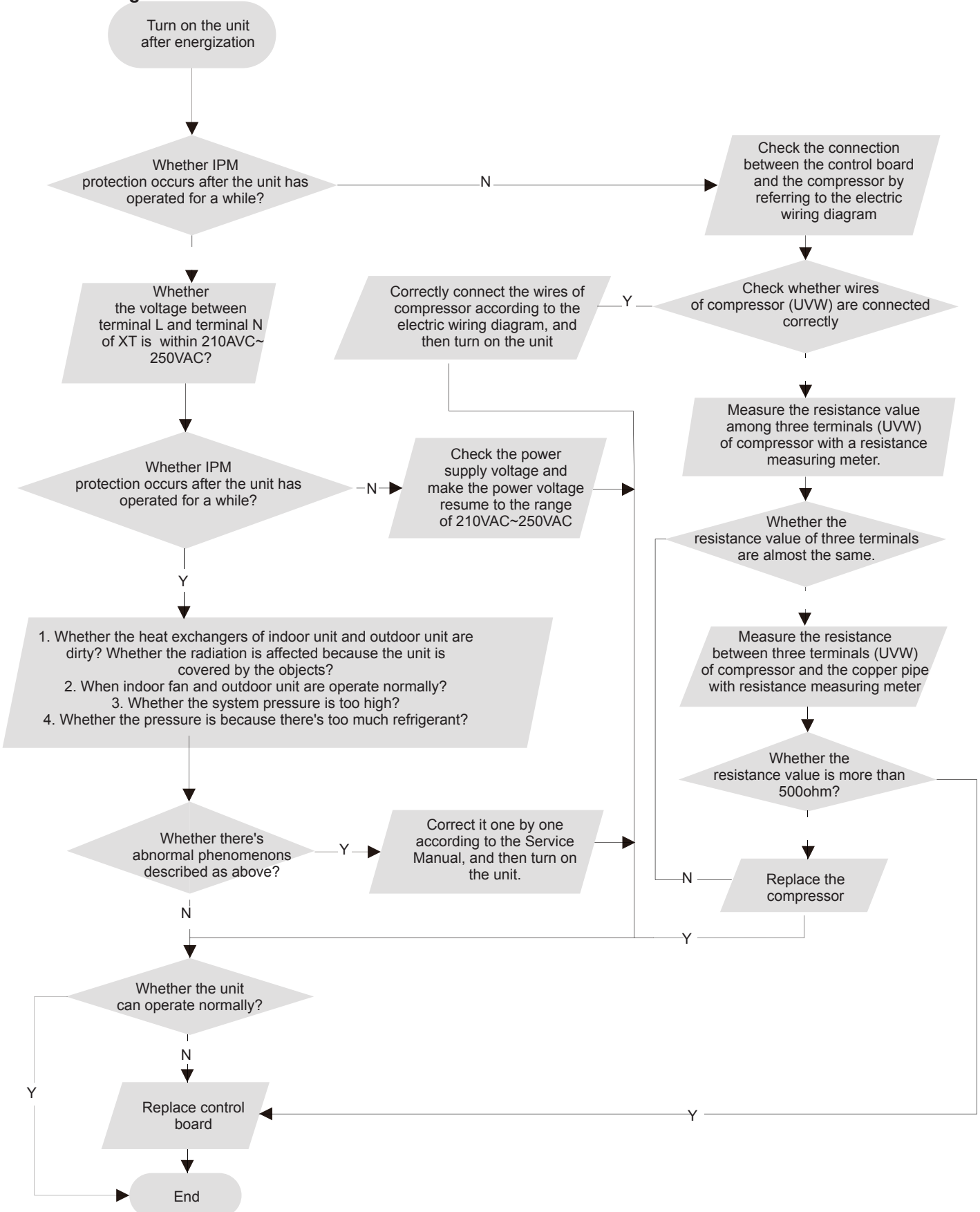


**3. IPM protection, phase current overcurrent (the control board as below indicates the control board of outdoor unit) H5/P5**

Mainly detect:

- (1) Compressor COMP terminal (2) voltage of power supply (3) compressor  
 (4) Refrigerant-charging volume (5) air outlet and air inlet of outdoor/indoor unit

Troubleshooting:

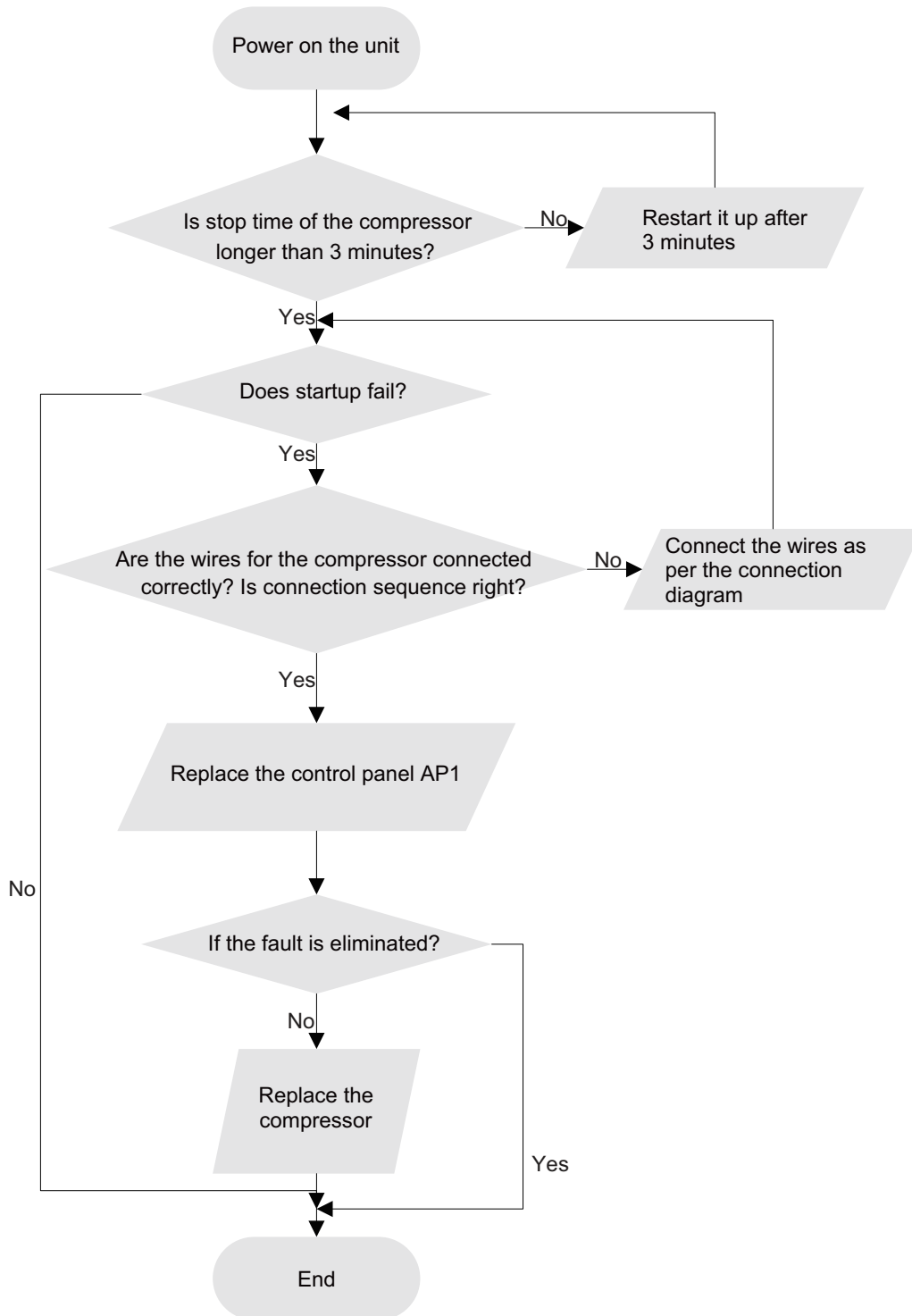


#### 4. Start-up failure (following AP1 for outdoor unit control board)

Mainly detect:

- Whether the compressor wiring is connected correct?
- Is compressor broken?
- Is time for compressor stopping enough?

Fault diagnosis process:

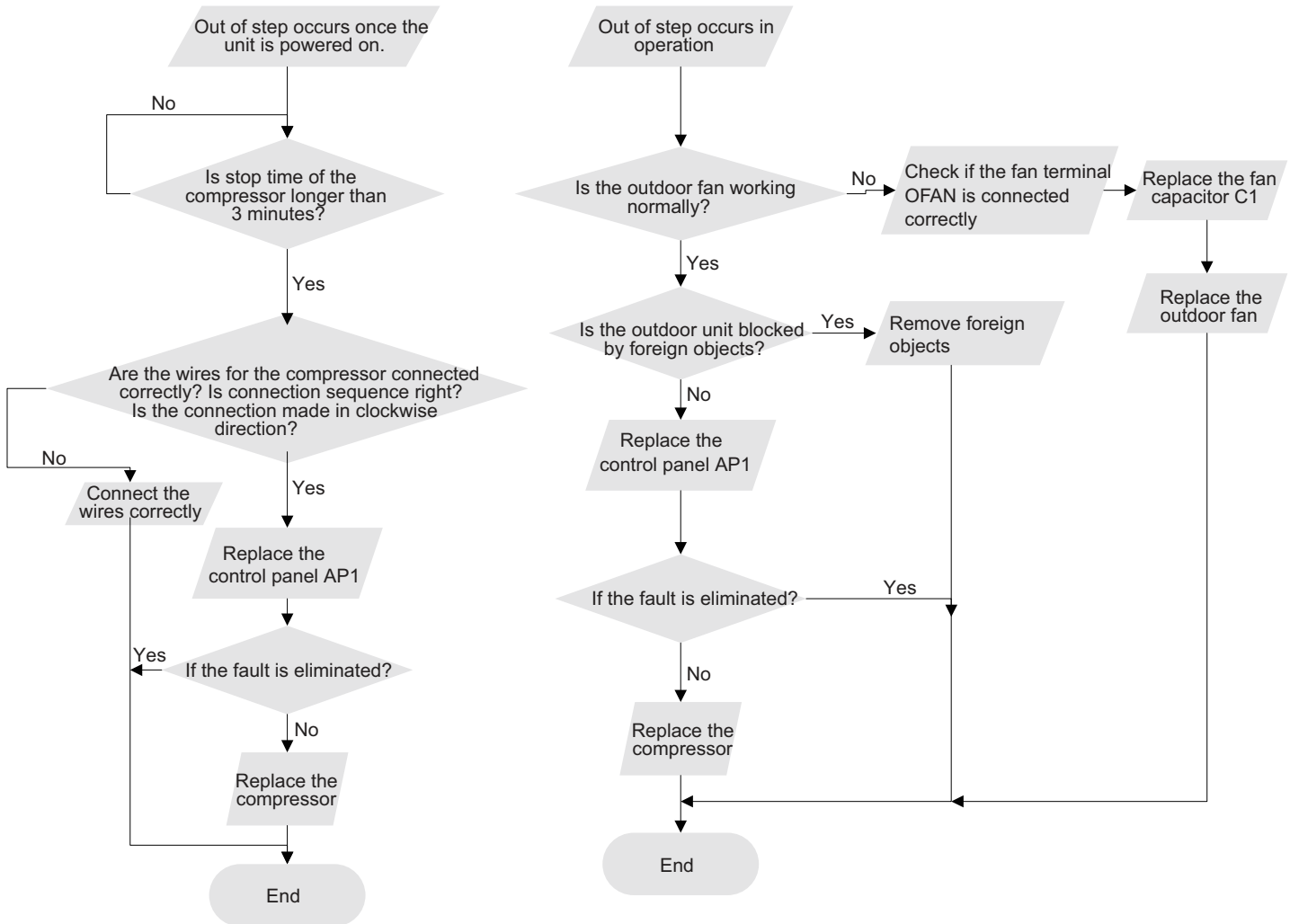


## 5. Out of step diagnosis for the compressor (AP1 hereinafter refers to the control board of the outdoor unit)

Mainly detect:

- Is the system pressure too high?
- Is the input voltage too low?

Fault diagnosis process:

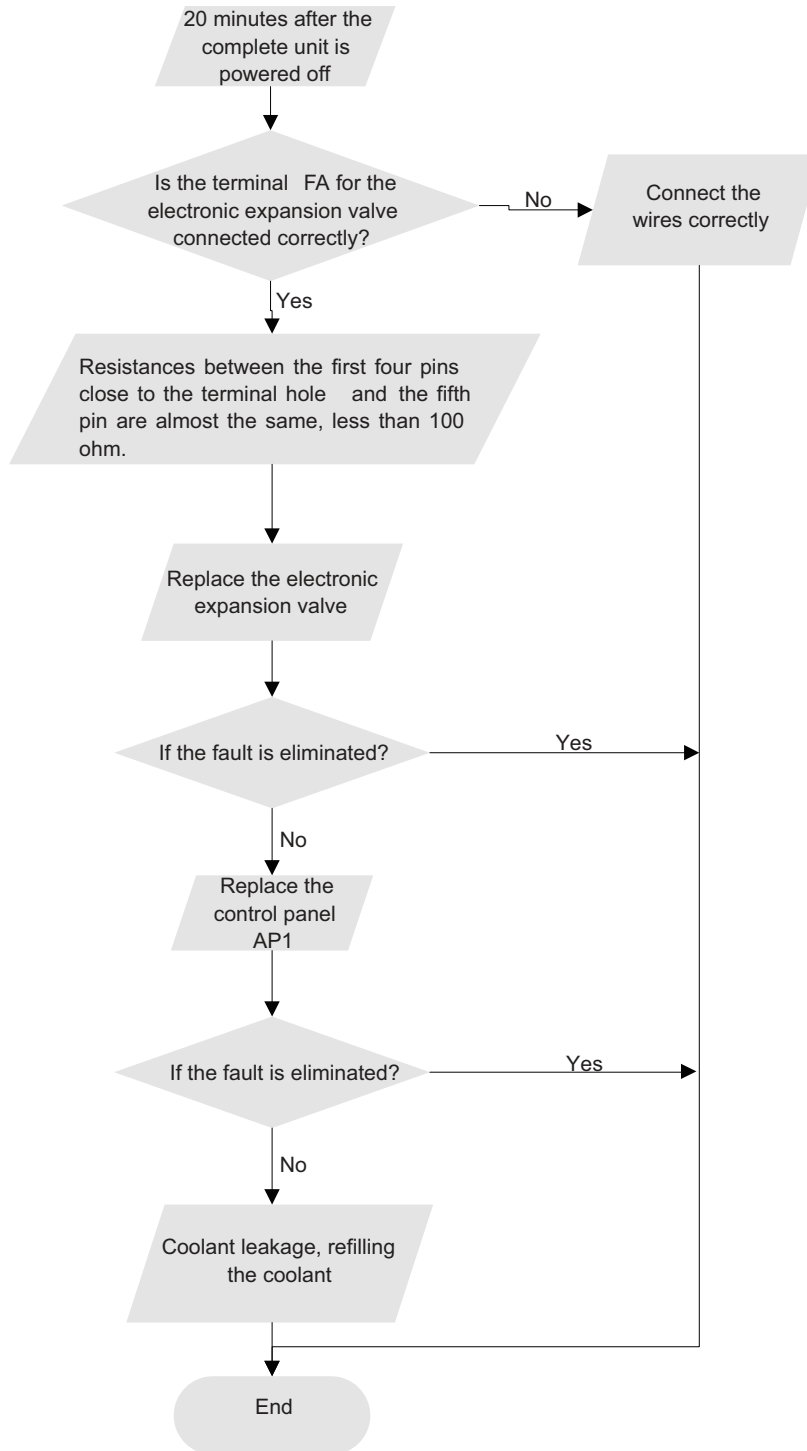


## 6. Overload and air exhaust malfunction diagnosis (following AP1 for outdoor unit control board)

Mainly detect:

- Is the PMV connected well or not? Is PMV damaged?
- Is refrigerant leaked?

Fault diagnosis process:

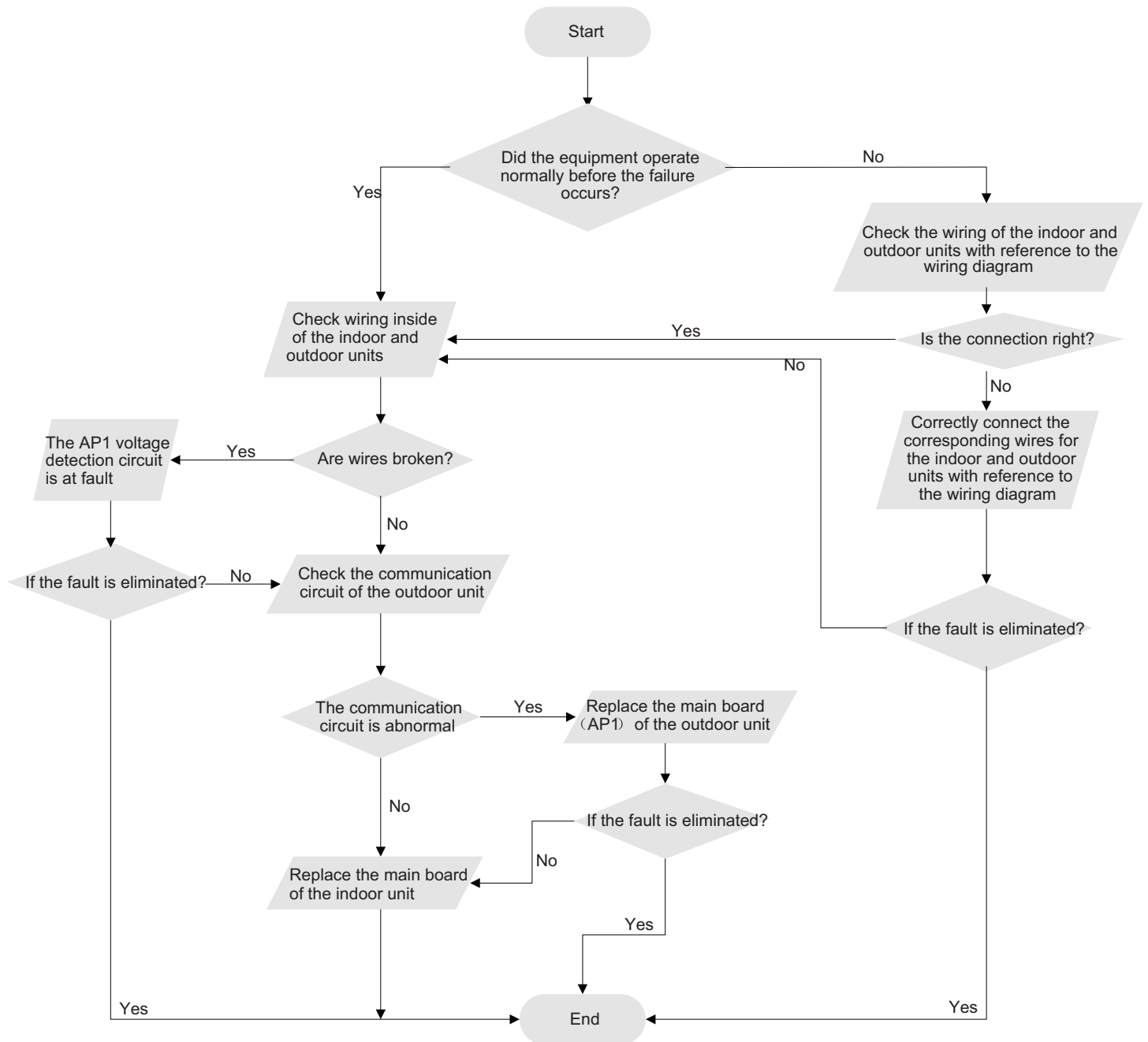


## 7. Communication malfunction: (following AP1 for outdoor unit control board)

Mainly detect:

- Is there any damage for the indoor unit mainboard communication circuit? Is communication circuit damaged?
- Detect the indoor and outdoor units connection wire and indoor and outdoor units inside wiring is connect well or not, if is there any damage?

Fault diagnosis process:



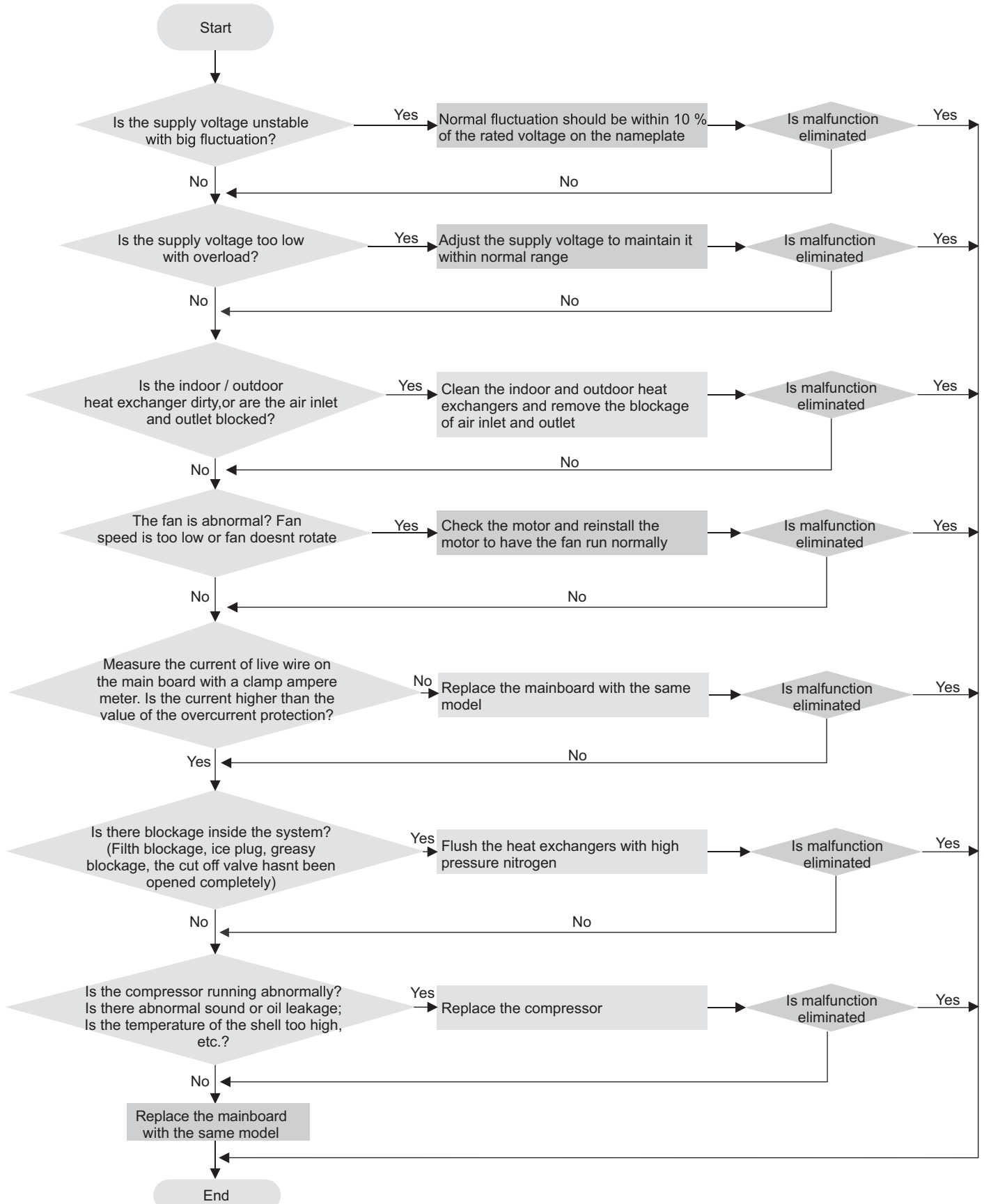


## 8. Malfunction of Overcurrent Protection

Main detection points:

- Is the supply voltage unstable with big fluctuation?
- Is the supply voltage too low with overload?
- Hardware trouble?

Malfunction diagnosis process:



## 9.3 Troubleshooting for Normal Malfunction

### 1. Air Conditioner Cant be Started Up

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
No power supply, or poor connection for power plug	After energization, operation indicator isnt bright and the buzzer cant give out sound	Confirm whether its due to power failure. If yes, wait for power recovery. If not, check power supply circuit and make sure the power plug is connected well.
Wrong wire connection between indoor unit and outdoor unit, or poor connection for wiring terminals	Under normal power supply circumstances, operation indicator isnt bright after energization	Check the circuit according to circuit diagram and connect wires correctly. Make sure all wiring terminals are connected firmly
Electric leakage for air conditioner	After energization, room circuit breaker trips off at once	Make sure the air conditioner is grounded reliably Make sure wires of air conditioner is connected correctly Check the wiring inside air conditioner. Check whether the insulation layer of power cord is damaged; if yes, place the power cord.
Model selection for air switch is improper	After energization, air switch trips off	Select proper air switch
Malfunction of remote controller	After energization, operation indicator is bright, while no display on remote controller or buttons have no action.	Replace batteries for remote controller Repair or replace remote controller

### 2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see its blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation position is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rainproof and sunproof for outdoor unit
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Units pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add refrigerant.
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unitt pressure is much lower than regulated range. If refrigerant isnt leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver cant swing	Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor	The IDU fan motor cant operate	Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor	The ODU fan motor cant operate	Refer to point 4 of maintenance method for details
Malfunction of compressor	Compressor cant operate	Refer to point 5 of maintenance method for details

### 3. Horizontal Louver Cant Swing

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Stepping motor is damaged	Stepping motor cant operate	Repair or replace stepping motor
Main board is damaged	Others are all normal, while horizontal louver cant operate	Replace the main board with the same model

#### 4. ODU Fan Motor Cant Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of the ODU fan motor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the capacity of fan
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Motor of outdoor unit is damaged	When unit is on, cooling/heating performance is bad and ODU compressor generates a lot of noise and heat.	Change compressor oil and refrigerant. If no better, replace the compressor with a new one

#### 5. Compressor Cant Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of compressor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the compressor capacitor
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Coil of compressor is burnt out	Use universal meter to measure the resistance between compressor terminals and its 0	Repair or replace compressor
Cylinder of compressor is blocked	Compressor cant operate	Repair or replace compressor

#### 6. Air Conditioner is Leaking

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Drain pipe is blocked	Water leaking from indoor unit	Eliminate the foreign objects inside the drain pipe
Drain pipe is broken	Water leaking from drain pipe	Replace drain pipe
Wrapping is not tight	Water leaking from the pipe connection place of indoor unit	Wrap it again and bundle it tightly

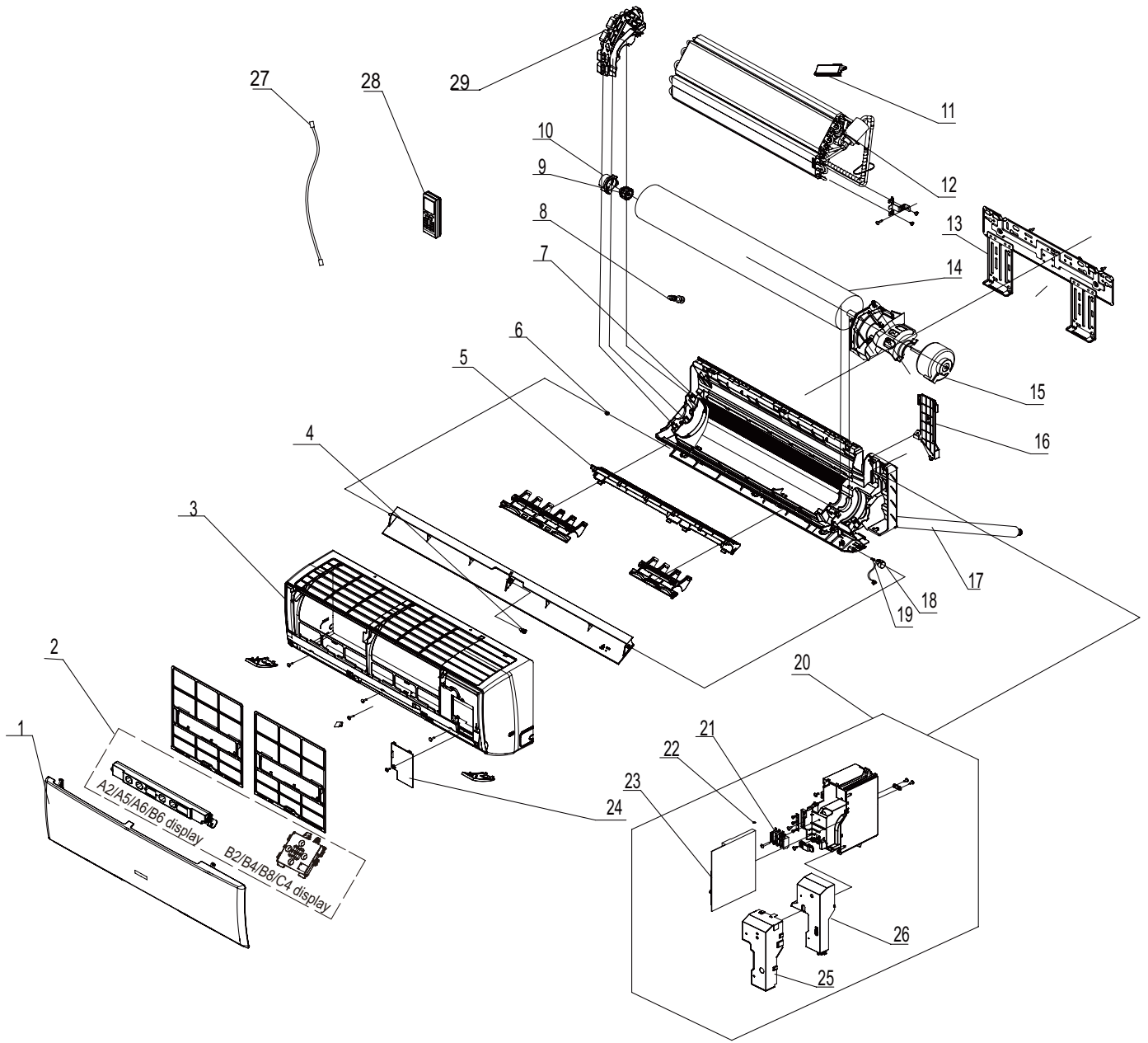
#### 7. Abnormal Sound and Vibration

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
When turn on or turn off the unit, the panel and other parts will expand and theres abnormal sound	Theres the sound of "PAPA"	Normal phenomenon. Abnormal sound will disappear after a few minutes.
When turn on or turn off the unit, theres abnormal sound due to flow of refrigerant inside air conditioner	Water-running sound can be heard	Normal phenomenon. Abnormal sound will disappear after a few minutes.
Foreign objects inside the indoor unit or therere parts touching together inside the indoor unit	Theres abnormal sound fro indoor unit	Remove foreign objects. Adjust all parts position of indoor unit, tighten screws and stick damping plaster between connected parts
Foreign objects inside the outdoor unit or therere parts touching together inside the outdoor unit	Theres abnormal sound fro outdoor unit	Remove foreign objects. Adjust all parts position of outdoor unit, tighten screws and stick damping plaster between connected parts
Short circuit inside the magnetic coil	During heating, the way valve has abnormal electromagnetic sound	Replace magnetic coil
Abnormal shake of compressor	Outdoor unit gives out abnormal sound	Adjust the support foot mat of compressor, tighten the bolts
Abnormal sound inside the compressor	Abnormal sound inside the compressor	If add too much refrigerant during maintenance, please reduce refrigerant properly. Replace compressor for other circumstances.



NO.	Description
1	Front Panel Assy
2	Display Board
3	Front Case Assy
4	Guide Louver
5	Air Louver
6	Swing Lever
7	Helicoid Tongue
8	Rear Case
9	Drainage Hose
10	Ring of Bearing
11	O-Gasket sub-assy of Bearing
12	Evaporator Support
13	Evaporator Assy
14	Wall Mounting Frame
15	Cross Flow Fan
16	Motor Press Plate
17	Fan Motor
18	Connecting pipe clamp
19	Rubber Plug (Water Tray)
20	Stepping Motor
21	Crank
22	Stepping Motor
23	Air Louver
24	Electric Box Assy
25	Air Louver
26	Axile Bush
27	Terminal Board
28	Jumper
29	Main Board
30	Shield Cover of Electric Box Cover
31	Electric Box Cover Sub-Assy
32	Electric Box Cover
33	Power Cord
34	Connecting Cable
35	Connecting Cable
36	Remote Controller
37	Cold Plasma Generator
38	Detecting plate(WIFI)

Some models may not contain some parts, please refer to the actual product.



The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Front Panel Assy
2	Display Board
3	Front Case Assy
4	Axile Bush
5	Helicoid Tongue
6	Left Axile Bush
7	Rear Case assy
8	Rubber Plug (Water Tray)
9	O-Gasket sub-assy of Bearing
10	Ring of Bearing
11	Cold Plasma Generator
12	Evaporator Assy
13	Wall Mounting Frame
14	Cross Flow Fan
15	Fan Motor
16	Connecting pipe clamp
17	Drainage Hose
18	Stepping Motor
19	Crank
20	Electric Box Assy
21	Terminal Board
22	Jumper
23	Main Board
24	Electric Box Cover Sub-Assy
25	Shield Cover of Electric Box Cover
26	Electric Box Cover
27	Connecting Cable
28	Remote Controller
29	Evaporator Support

Some models may not contain some parts, please refer to the actual product.





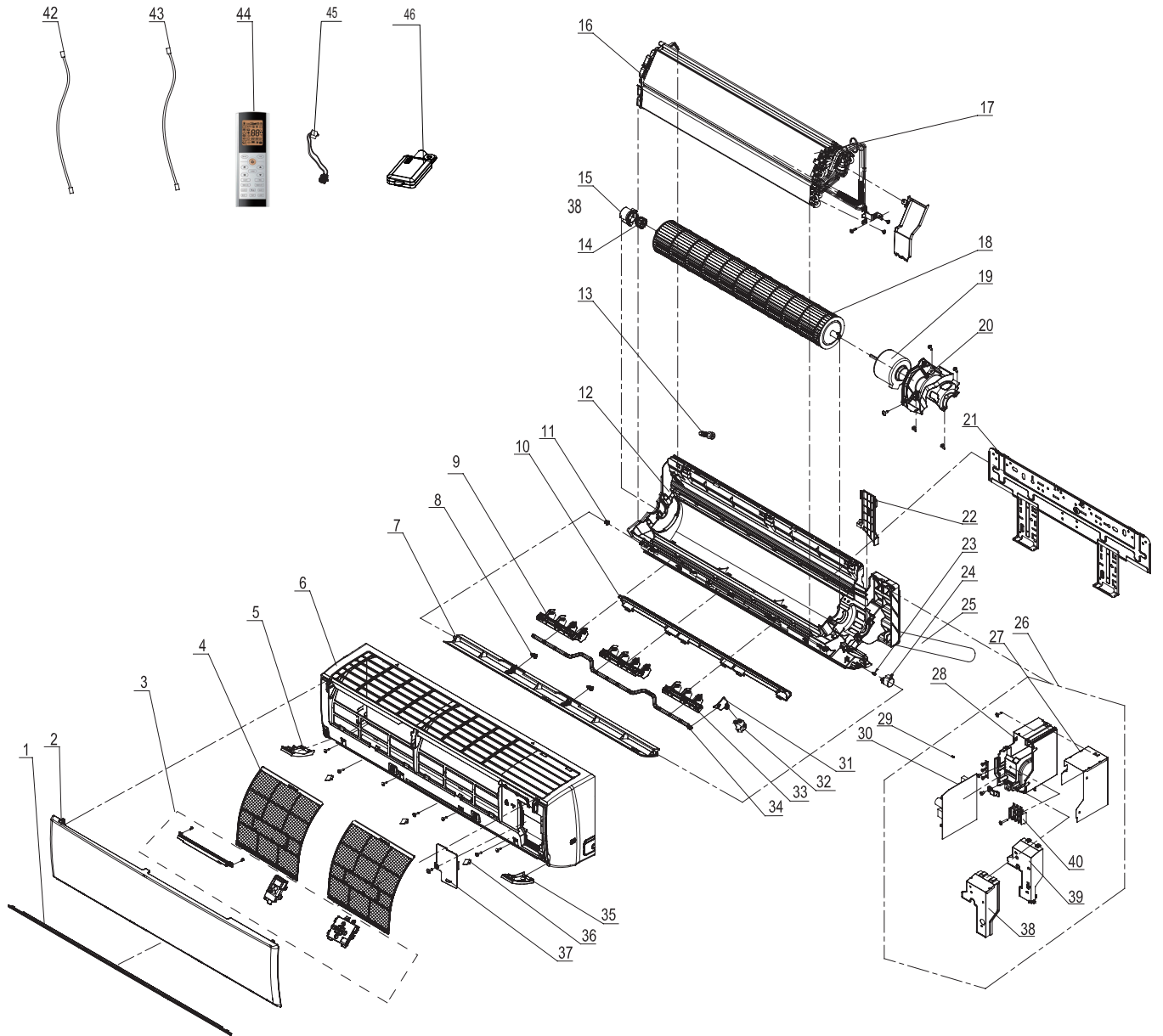
NO.	Description
1	Front Panel
2	Display Board
3	Front Case Assy
4	Helicoid Tongue
5	Left Axile Bush
6	Rear Case assy
7	Drainage Hose
8	Ring of Bearing
9	O-Gasket sub-assy of Bearing
10	Evaporator Support
11	Evaporator Assy
12	Wall Mounting Frame
13	Fan Motor
14	Cross Flow Fan
15	Connecting pipe clamp
16	Rubber Plug (Water Tray)
17	Stepping Motor
18	Crank
19	Electric Box Assy
20	Axile Bush
21	Terminal Board
22	Jumper
23	Main Board
24	Electric Box Cover Sub-Assy
25	Shield Cover of Electric Box Cover
26	Electric Box Cover
27	Remote Controller
28	Detecting Plate

Some models may not contain some parts, please refer to the actual product.



No.	Description
1	Decorative Strip
2	Front Panel Assy
3	Display Board
4	Filter Sub-Assy
5	Decorative Board (Left)
6	Front Case
7	Guide Louver
8	Axile Bush
9	Air Louver 1
10	Helicoid tongue
11	Left Axile Bush
12	Rear Case assy
13	Rubber Plug (Water Tray)
14	O-Gasket sub-assy of Bearing
15	Ring of Bearing
16	Evaporator Support
17	Evaporator Assy
18	Cross Flow Fan
19	Fan Motor
20	Motor Press Plate
21	Wall Mounting Frame
22	Connecting pipe clamp
23	Crank
24	Stepping Motor
25	Drainage hose
26	Electric Box Assy
27	Electric Box
28	Terminal Board
29	Jumper
30	Main Board
31	Electric Box Cover
32	Air Louver
33	Stepping Motor
34	Air Louver 2
35	Swing Lever
36	Decorative Board (Right)
37	Screw Cover
38	Electric Box Cover2
39	Power Cord
40	Connecting Cable
41	Connecting Cable
42	Remote Controller
43	Cold Plasma Generator
44	Detecting Plate

Some models may not contain some parts, please refer to the actual product.



The component picture is only for reference; please refer to the actual product.

No.	Description
1	Decorative Strip
2	Front Panel Assy
3	Display Board
4	Filter Sub-Assy
5	Decorative Board (Left)
6	Front Case
7	Guide Louver
8	Axile Bush
9	Air Louver 1
10	Helicoid tongue
11	Left Axile Bush
12	Rear Case assy
13	Rubber Plug (Water Tray)
14	O-Gasket sub-assy of Bearing
15	Ring of Bearing
16	Evaporator Support
17	Evaporator Assy
18	Cross Flow Fan
19	Fan Motor
20	Motor Press Plate
21	Wall Mounting Frame
22	Connecting pipe clamp
23	Crank
24	Stepping Motor
25	Drainage hose
26	Electric Box Assy
27	Lower Shield of Electric Box
28	Electric Box
29	Jumper
30	Main Board
31	Air Louver
32	Stepping Motor
33	Air Louver 2
34	Swing Lever
35	Decorative Board (Right)
36	Screw Cover
37	Electric Box Cover2
38	Shield Cover of Electric Box
39	Electric Box Cover
40	Terminal Board
41	Power Cord
42	Connecting Cable
43	Connecting Cable
44	Remote Controller
45	Cold Plasma Generator
46	Detecting Plate

Some models may not contain some parts, please refer to the actual product.





No.	Description
1	Front Panel
2	Display Board
3	Filter Sub-Assy
4	Decorative Board
5	Front Case
6	Guide Louver
7	Axile Bush
8	Air Louver(Manual)
9	Helicoid tongue
10	Left Axile Bush
11	Rear Case assy
12	Rubber Plug (Water Tray)
13	O-Gasket sub-assy of Bearing
14	Ring of Bearing
15	Evaporator Support
16	Evaporator Assy
17	Cross Flow Fan
18	Fan Motor
19	Motor Press Plate
20	Wall Mounting Frame
21	Connecting pipe clamp
22	Crank
23	Stepping Motor
24	Drainage hose
25	Electric Box Assy
26	Electric Box
27	Terminal Board
28	Jumper
29	Main Board
30	Electric Box Cover
31	Decorative Board
32	Screw Cover
33	Electric Box Cover2
34	Connecting Cable
35	Remote Controller
36	Cold Plasma Generator
37	Detecting plate(WIFI )

Some models may not contain some parts, please refer to the actual product.

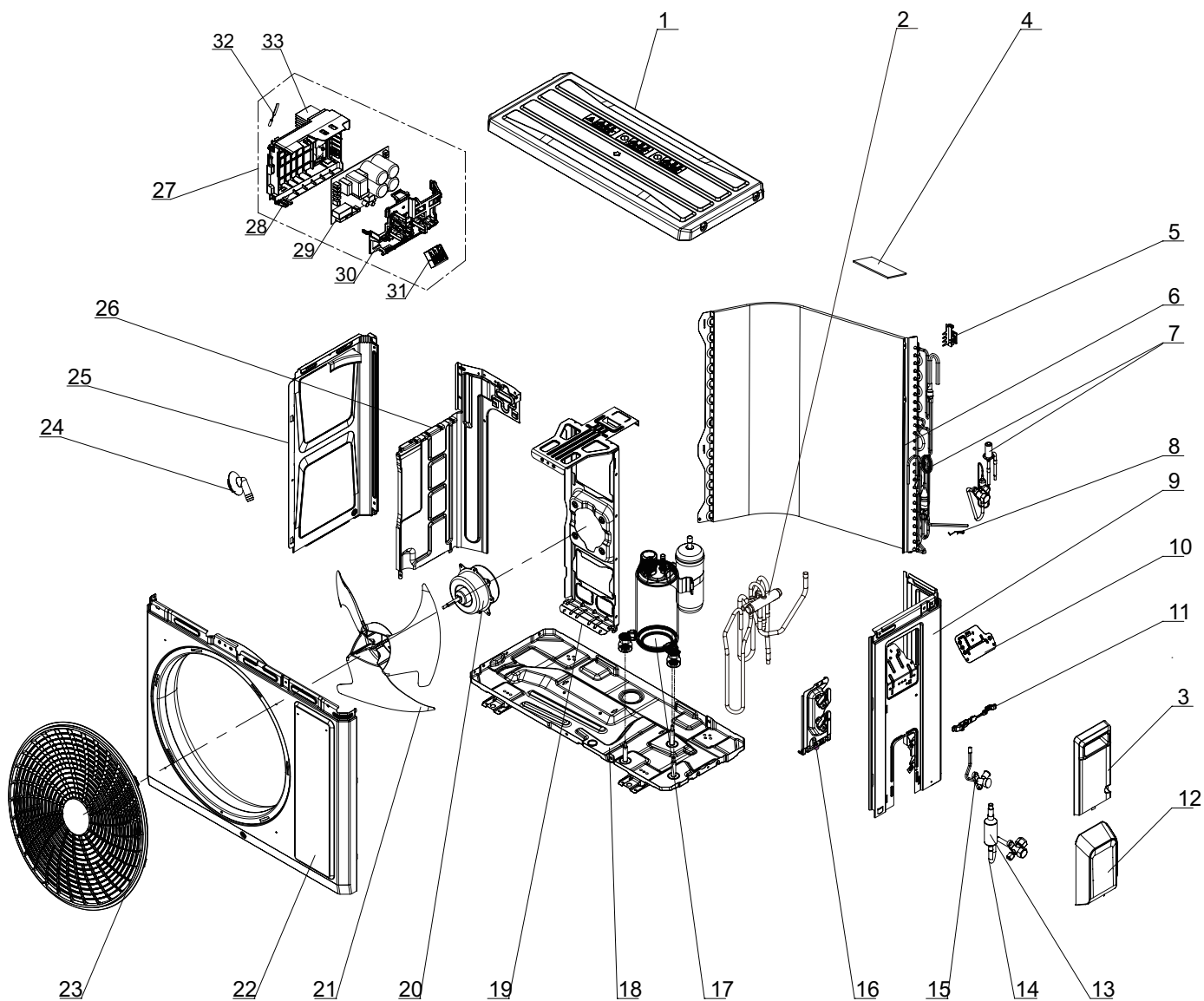


No.	Description
1	Front Panel Assy
2	Filter Sub-Assy
3	Screw Cover
4	Front Case Assy
5	Swing Lever
6	Air Louver
7	Helicoid Tongue sub-assy
8	Left Axile Bush
9	Rear Case assy
10	Rubber Plug (Water Tray)
11	Ring of Bearing
12	O-Gasket sub-assy of Bearing
13	Cross Flow Fan
14	Evaporator Support
15	Evaporator Assy
16	Wall Mounting Frame
17	Motor Press Plate
18	Fan Motor
19	Connecting pipe clamp
20	Drainage Hose
21	Stepping Motor
22	Crank
23	Air Louver 1
24	Air Louver 1
25	Stepping Motor
26	Guide Louver
27	Axile Bush
28	Electric Box
29	Terminal Board
30	Electric Box Cover 2
31	Main Board
32	Display Board
33	Shield Cover of Electric Box
34	Electric Box Cover
35	Jumper
36	Lower Shield of Electric Box
37	Electric Box Assy
38	Power Cord
39	Connecting Cable
40	Connecting Cable
41	Temperature Sensor
42	Remote Controller
43	Detecting Plate

Some models may not contain some parts, please refer to the actual product.

## 10.2 Outdoor Unit

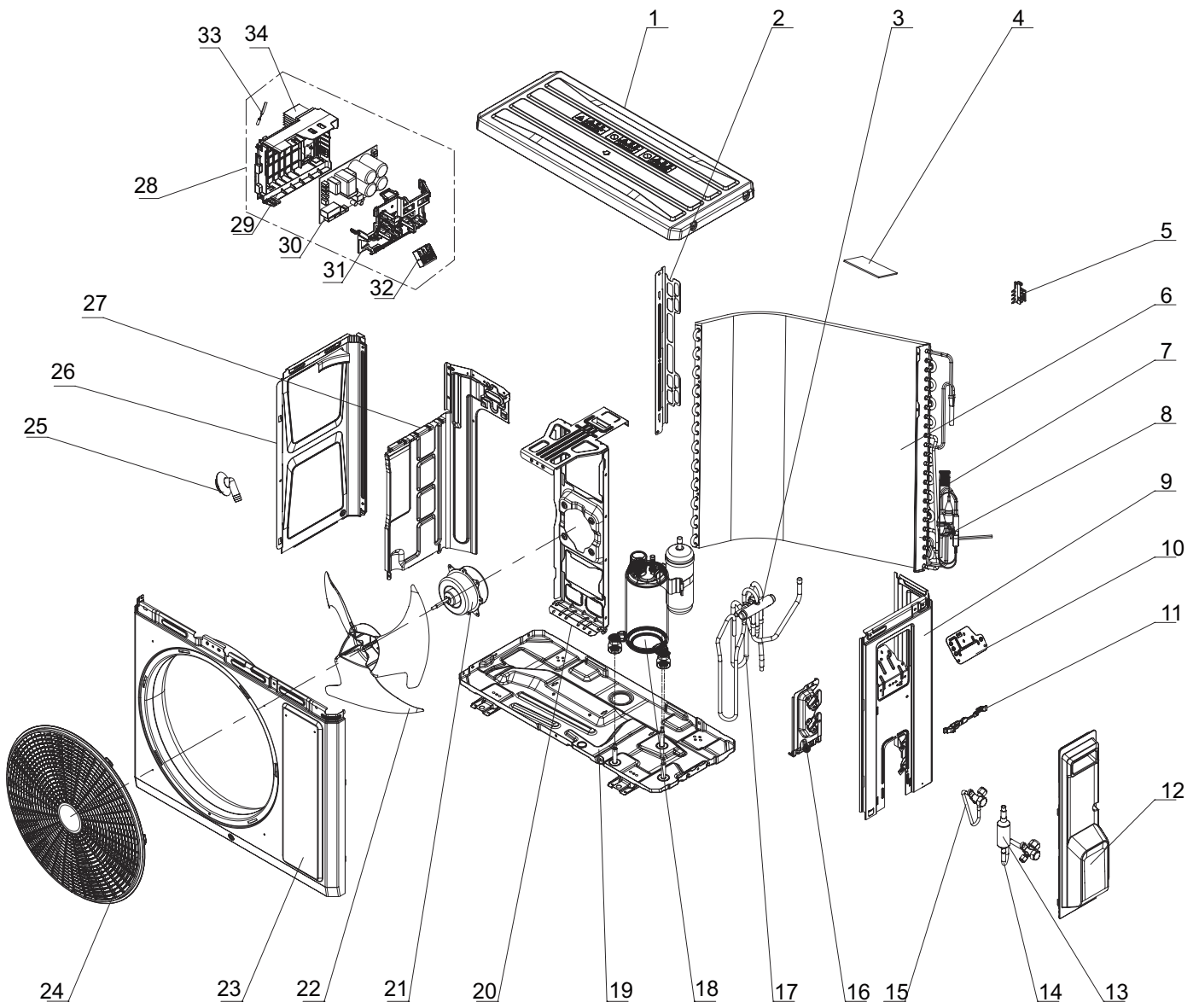
GWH09AFC-K6DNA2F/O GWH12AFC-K6DNA2F/O GWH18ALD-K6DNA1A/O



The component is only for reference; please refer to the actual product

NO.	Description
1	Coping
2	4-Way Valve Assy
3	Handle (Right)
4	Sponge(Condenser)
5	Temperature Sensor Support
6	Condenser Assy
7	Capillary Sub-assy/ Electric Expansion Valve Sub-Assy
8	Sensor Insert
9	Right Side Plate
10	Earthing Plate Sub-Assy
11	Wire Clamp
12	Valve Cover
13	Silencer
14	Cut off Valve Sub-Assy
15	Strainer
16	Valve Support
17	Compressor and Fittings
18	Chassis Sub-assy
19	Motor Support
20	Fan Motor
21	Axial Flow Fan
22	Cabinet
23	Front Grill
24	Drainage Joint(ODU)
25	Left Side Plate
26	Clapboard
27	Electric Box Assy
28	Electric Box
29	Main Board
30	Electric Box Cover
31	Terminal Board
32	Temperature Sensor
33	Raidator

Some models may not contain some parts, please refer to the actual product.



The component is only for reference; please refer to the actual product.

NO.	Description
1	Coping
2	Supporting Board(Condenser)
3	4-Way Valve
4	Sponge(Condenser)
5	Temperature Sensor Support
6	Condenser Assy
7	Capillary Sub-assy
8	Sensor Insert
9	Right Side Plate
10	Earthing Plate Sub-assy
11	Wire Clamp
12	Handle Assy
13	Silencer
14	Cut-off valve 1/4(N)
15	Cut-off valve 3/8(N)
16	Valve Support
17	4-Way Valve Assy
18	Compressor and Fittings
19	Chassis Sub-assy
20	Motor Support
21	Brushless DC Motor
22	Axial Flow Fan
23	Cabinet
24	Front Grill
25	Drainage Joint(ODU)
26	Left Side Plate
27	Clapboard
28	Electric Box Assy
29	Electric Box
30	Main Board
31	Electric Box Cover
32	Terminal Board
33	Temperature Sensor
34	Radiator

Some models may not contain some parts, please refer to the actual product.

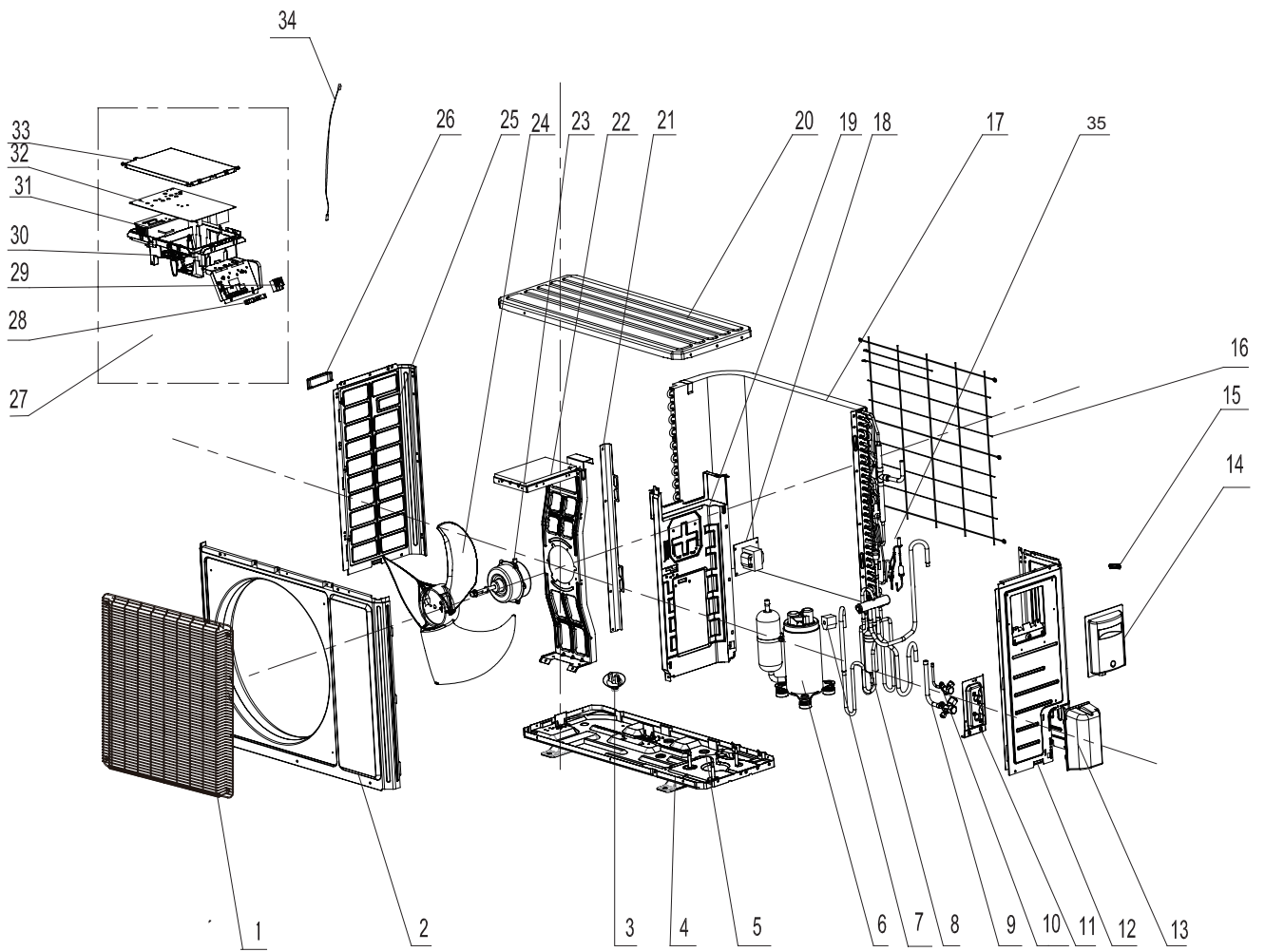




NO.	Description
1	Top Cover Assy
2	Support Board(Condenser)
3	4-Way Valve
4	Sponge(Condenser)
5	Temperature Sensor Support
6	Condenser Assy
7	Temp Sensor Sleeving
8	Sensor Insert
9	Right Side Plate
10	Earthing Plate Sub-Assy
11	Wire Clamp
12	Electric Expansion Valve Sub-Assy
13	Electric Expansion Valve Fitting
14	Valve Cover
15	Silencer
16	Cut off Valve Sub-Assy
17	Strainer
18	Cut off Valve Assy
19	Valve Support
20	4-Way Valve Assy

NO.	Description
21	Compressor and Fittings
22	Chassis Sub-assy
23	Motor Support
24	Brushless DC Motor
25	Axial Flow Fan
26	Cabinet
27	Front Grill
28	Drainage Joint(ODU)
29	Left Side Plate
30	Clapboard
31	Reactor
32	Electric Box Assy
33	Electric Box
34	Main Board
35	Electric Box Cover
36	Terminal Board
37	Temperature Sensor
38	Raidator
39	Handle

Some models may not contain some parts, please refer to the actual product.

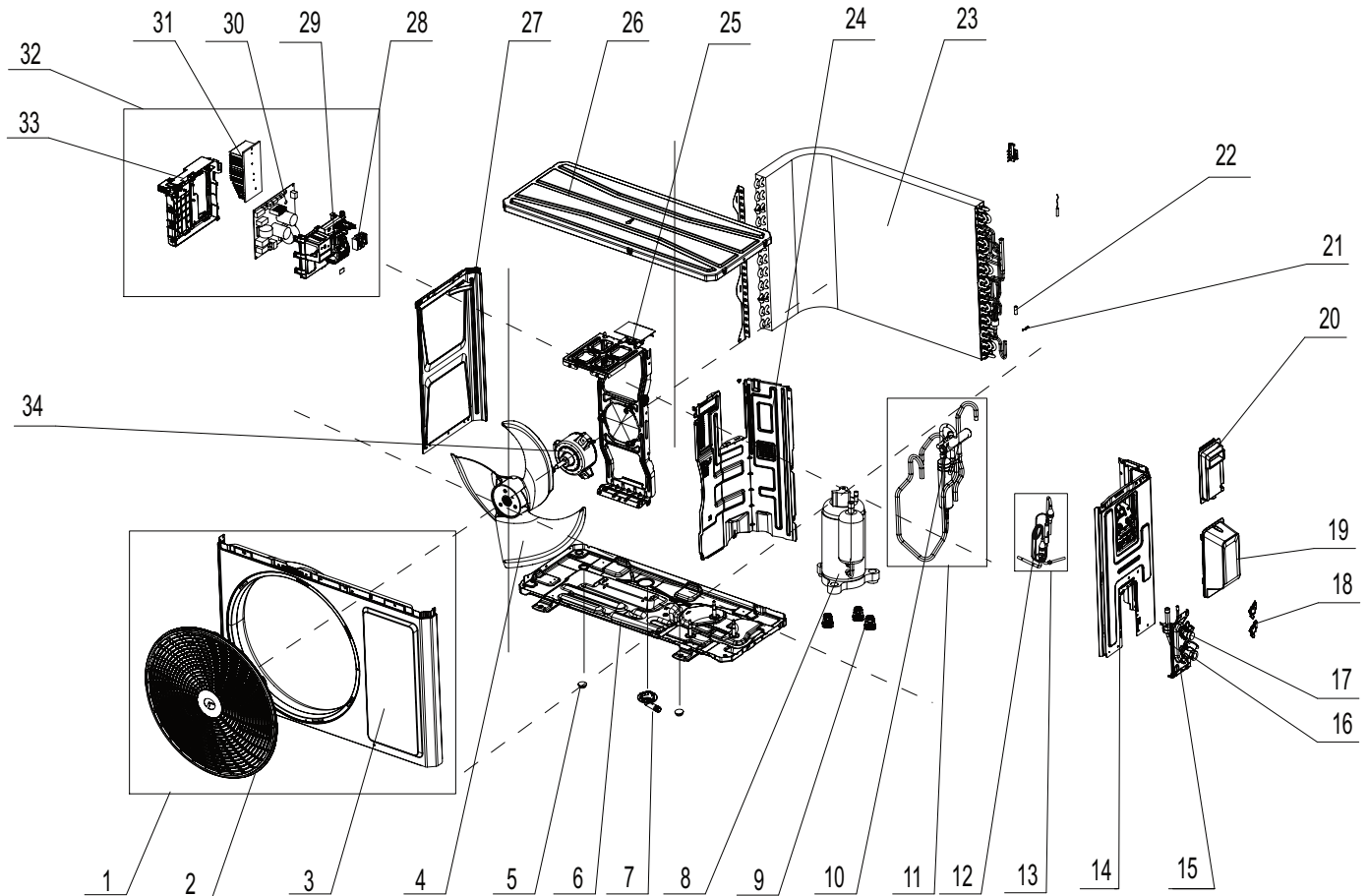


The component picture is only for reference; please refer to the actual product.

No.	Description
1	Front Grill
2	Front Panel
3	Drainage Connector
4	Chassis Sub-assy
5	Drainage Joint
6	Compressor and Fittings
7	Magnet Coil
8	4-Way Valve Assy
9	Cut off Valve Assy
10	Cut off Valve Sub-Assy
11	Valve support assy
12	Right Side Plate
13	Valve Support
14	Handle
15	Wire Clamp
16	Rear Grill
17	Condenser Assy
18	Reactor
19	Clapboard Sub-Assy
20	Coping
21	Supporting Board(Condenser)
22	Motor Support Sub-Assy
23	Fan Motor
24	Axial Flow Fan
25	Left Side Plate
26	Left handle
27	Electric Box Assy
28	Wire Clamp
29	Terminal Board
30	Electric Box
31	Radiator
32	Main Board
33	Insulated Board (Cover of Electric Box)
34	Temperature Sensor
35	Electronic Expansion Valve assy

Some models may not contain some parts, please refer to the actual product.

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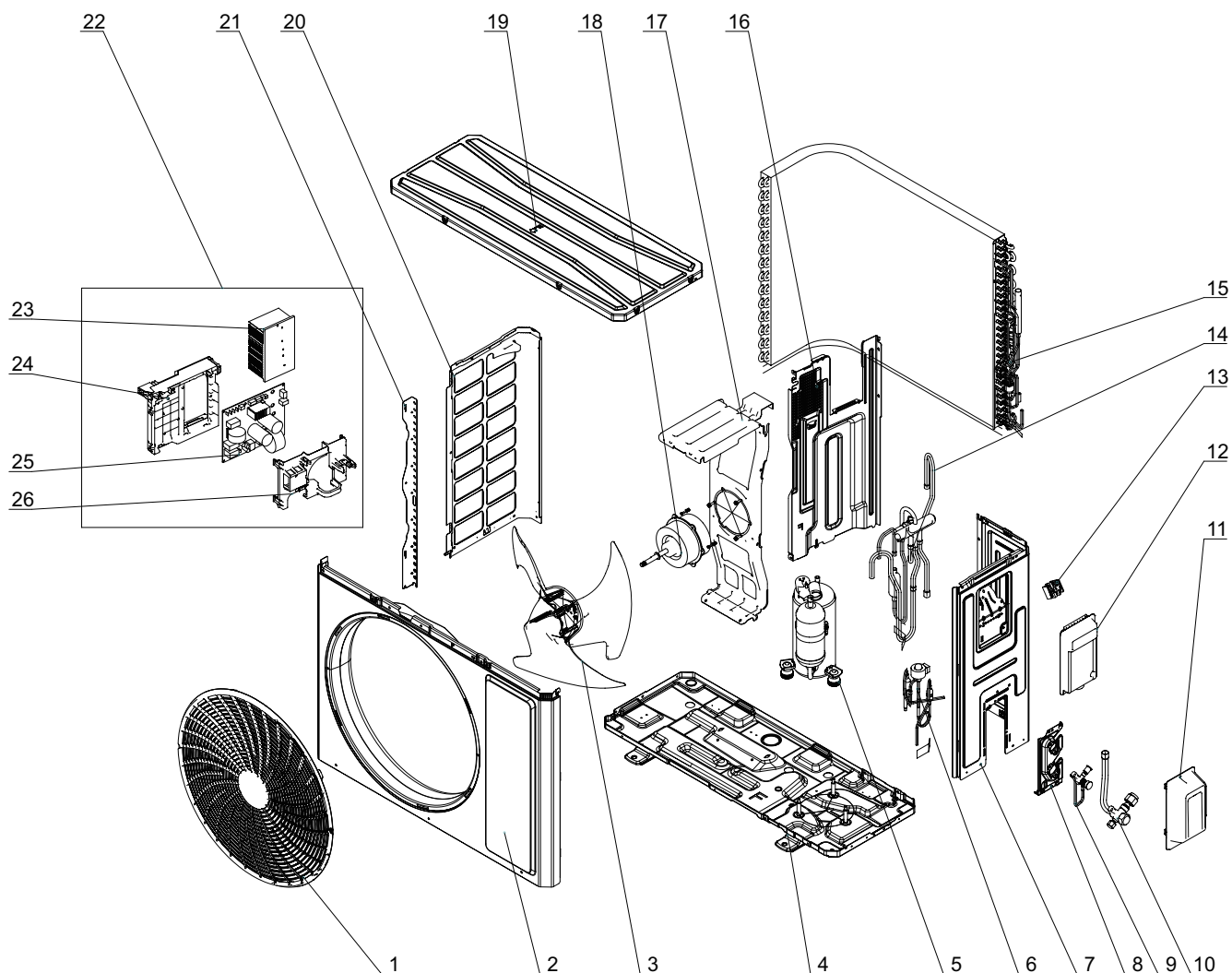
The component is only for reference; please refer to the actual product

NO.	Description
1	Front Panel Assy
2	Front grill
3	Front Panel
4	Axial Flow Fan
5	Drainage hole Cap
6	Chassis Sub-assy
7	Drainage Joint
8	Compressor and Fittings
9	Compressor Gasket
10	4-Way Valve
11	4-Way Valve Assy
12	Capillary Tube
13	Capillary Tube assy
14	Right Side Plate Assy
15	Valve Support
16	Cut-off valve 1/2(N)
17	Cut-off valve 1/4(N)

NO.	Description
18	Valve Support Block
19	Valve Cover
20	handle
21	Sensor Insert
22	Temp Sensor Sleeving
23	Condenser Assy
24	Clapboard Sub-Assy
25	Motor Support Sub
26	Top Cover Sub-Assy
27	Left Side Plate
28	Terminal Board
29	Electric Box Cover
30	Main Board
31	Radiator
32	Electric Box Assy
33	Electric Box
34	Brushless DC Motor

Some models may not contain some parts, please refer to the actual product.

GWH24AFE-K6DNA2I/O



The component is only for reference; please refer to the actual product

NO.	Description
1	Front Grill
2	Front Panel
3	Axial Flow Fan
4	Chassis Sub-assy
5	Compressor and Fittings
6	Electronic Expansion Valve
7	Right Side Plate
8	Valve Support
9	Cut-off valve 1/4(N)
10	Cut-off valve 5/8(N)
11	Valve Cover
12	Handle
13	Terminal Board

NO.	Description
14	4-Way Valve Assy
15	Condenser Assy
16	Clapboard Assy
17	Motor Support
18	Brushless DC Motor
19	Top Cover Assy
20	Left Side Plate
21	Condenser Left Border Plate
22	Electric Box Assy
23	Radiator
24	Electric Box
25	Main Board
26	Electric Box Cover

Some models may not contain some parts, please refer to the actual product.



NO.	Description
1	Left Side Plate
2	Motor Support
3	Top Cover Sub-Assy
4	Top cover
5	Condenser Sub-Assy
6	Sponge(Condenser)
7	Condenser Assy
8	Electric Box Assy
9	Electric Box
10	Temp Sensor Sleevling
11	Main Board
12	Terminal Board
13	Silencer
14	Earthing Plate Sub-assy
15	Handle
16	Valve Support Block
17	Right Side Plate
18	Cut-off valve 1/4(N)
19	Valve Support
20	Sensor Insert
21	Compressor and Fittings
22	4-Way Valve Assy
23	Chassis Sub-assy
24	Cabinet
25	Front Grill
26	Axial Flow Fan
27	Fan Motor
28	Capillary Sub-assy

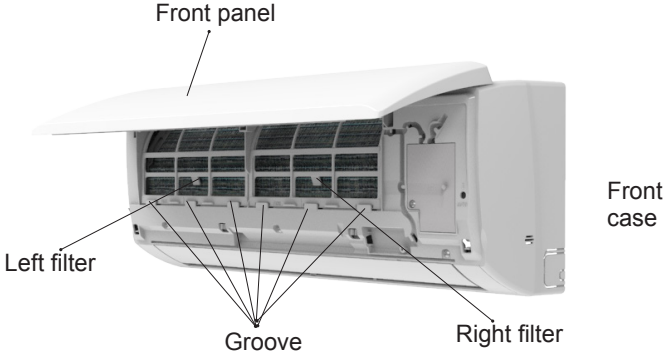
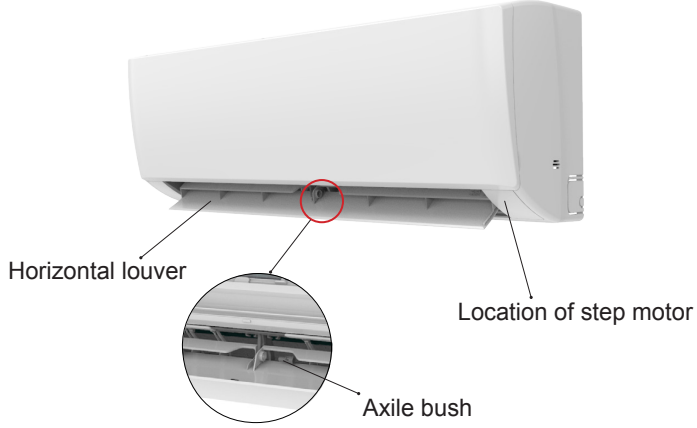
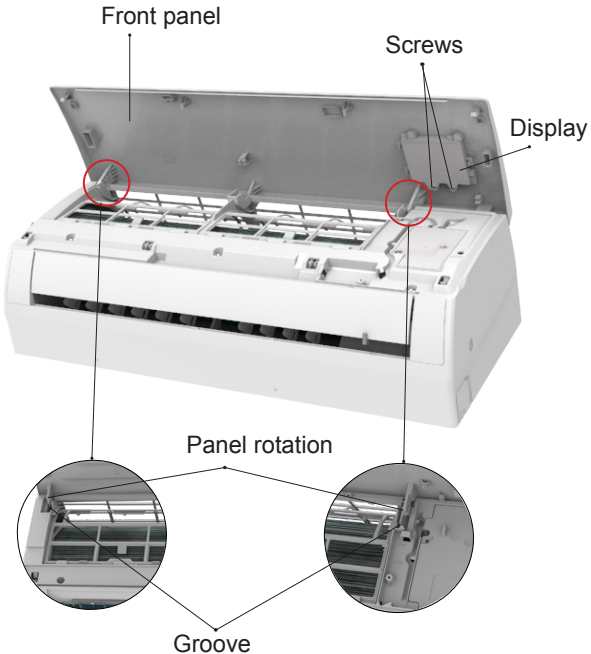
Some models may not contain some parts, please refer to the actual product.

# 11. Removal Procedure

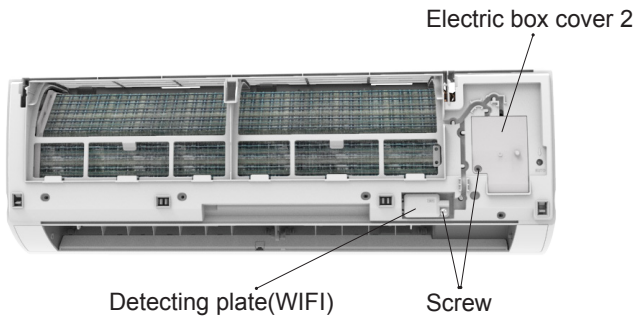
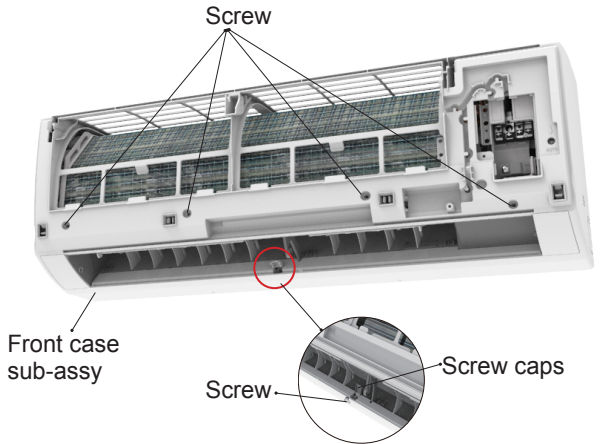
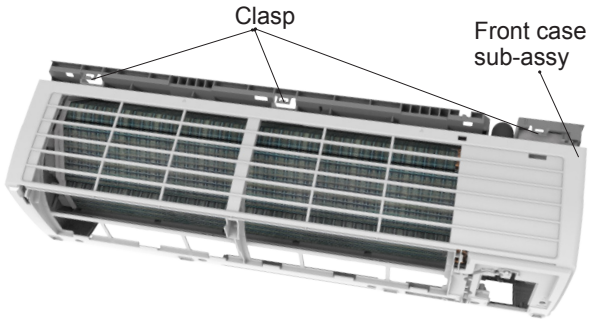
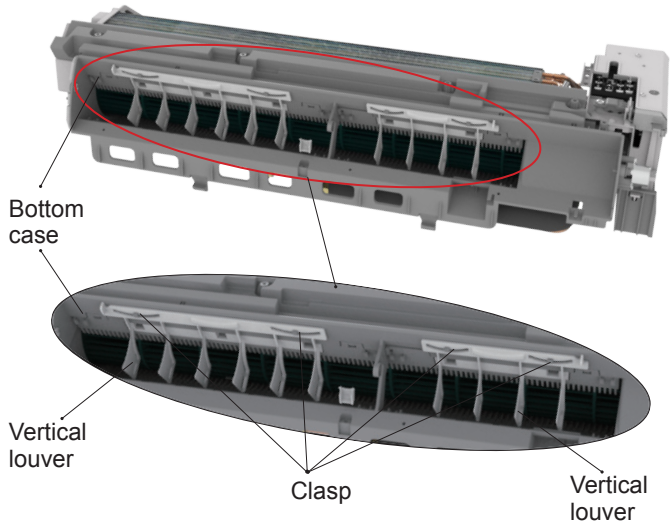
## 11.1 Removal Procedure of Indoor Unit

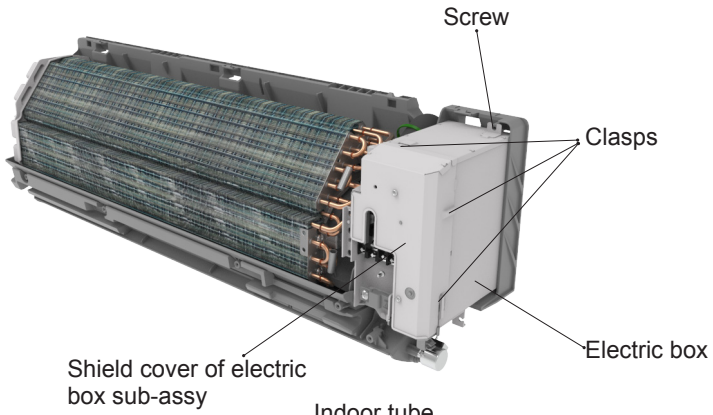
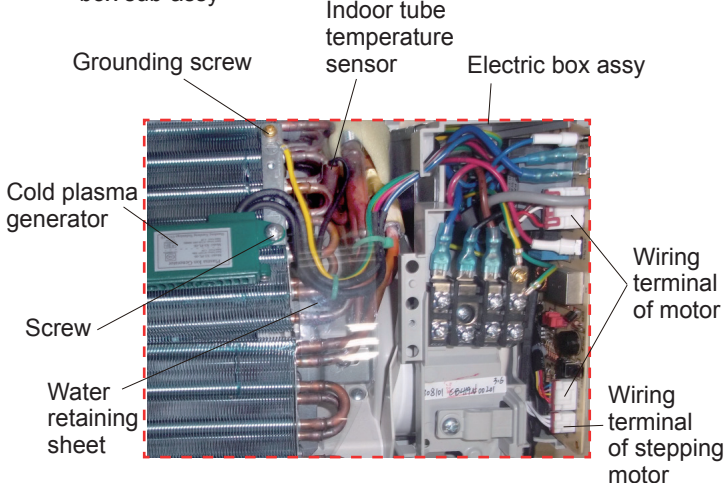
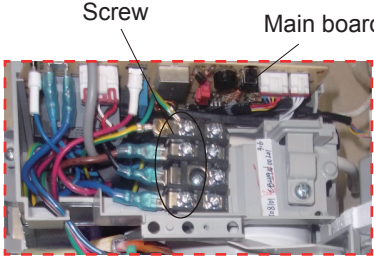
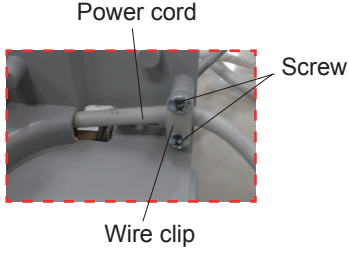
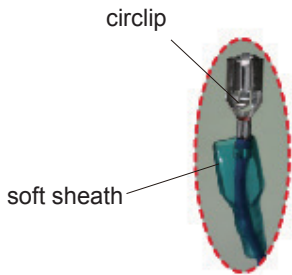
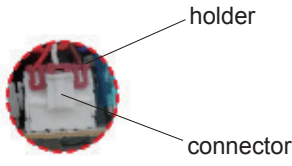


**Caution: discharge the refrigerant completely before removal.**

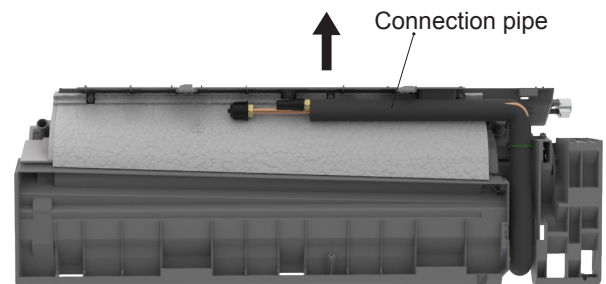
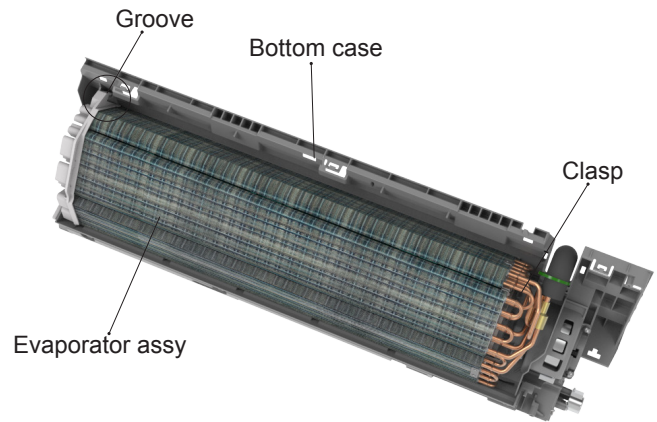
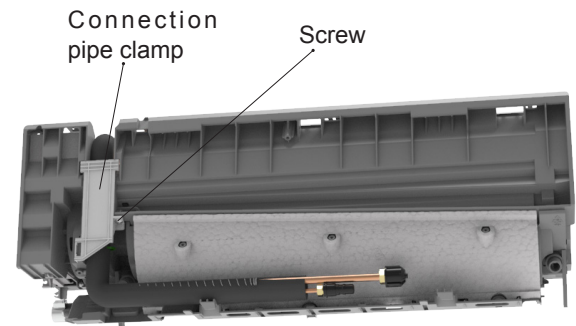
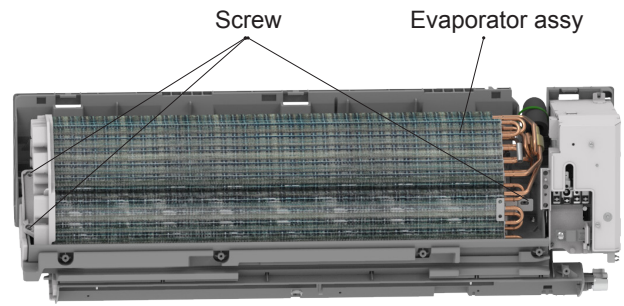
Step	Procedure
<p><b>1. Remove filter assembly</b></p>	<p>Open the front panel. Push the left filter and right filter until they are separate from the groove on the front panel. Remove the left filter and right filter respectively.</p> 
<p><b>2. Remove horizontal louver</b></p>	<p>Push out the axle bush on horizontal louver. Bend the horizontal louver with hand and then separate the horizontal louver from the crankshaft of step motor to remove it.</p> 
<p><b>3. Remove panel</b></p>	<p>a</p> <ul style="list-style-type: none"> <li>① A1/B6/C2/C4 display: Screw off the 2 screws that are locking the display board. Separate the display board from the front panel.</li> <li>② A2/A3 display: Screw off the 2 screws that are locking the display board. This display can be disassembled only after removing the front case (refer to step 5 of disassembly).</li> <li>③ A5/B2/B4/B8/C6/D2 display: Screw off the 2 screws that are locking the display board.</li> </ul> <p>b</p> <p>Separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.</p> 

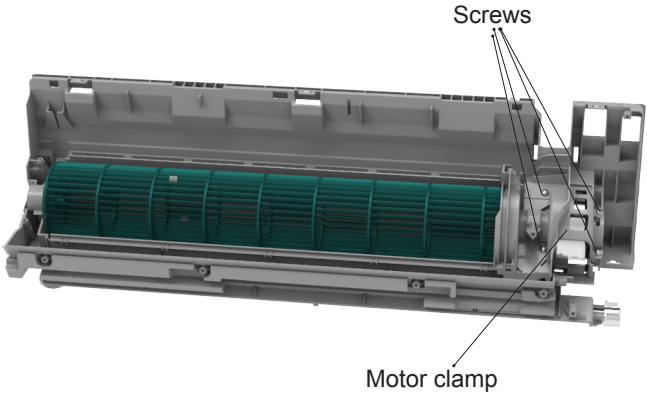
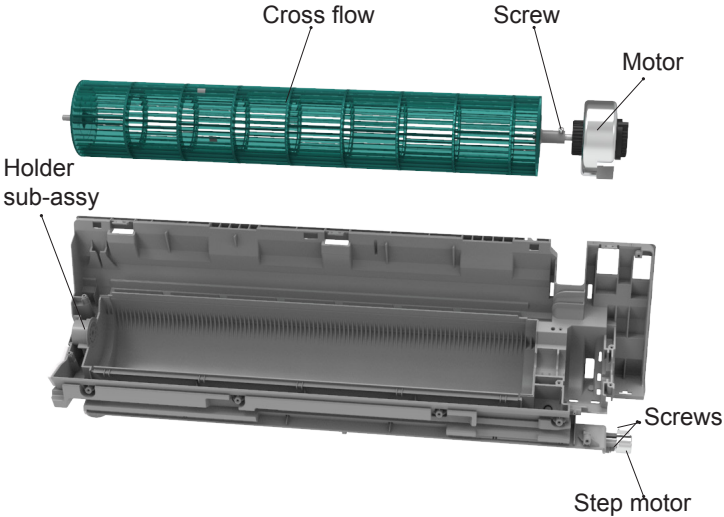


Step	Procedure
<p><b>4. Remove detecting plate(wifi) and electric box cover2</b></p>	<p>Remove the screws fixing detecting plate and remove detecting plate(wifi).</p> <p>Remove the screws fixing electric box cover 2 and remove electric box cover 2.</p> 
<p><b>5. Remove front case sub-assy</b></p> <p>a</p>	<p>Remove the screws fixing front case.</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1.Open the screw caps before removing the screws around the air outlet.</li> <li>2.The quantity of screws fixing the front case sub-assy is different for different models.</li> </ol> 
<p>b</p>	<p>Loosen the connection clasps between front case sub-assy and bottom case. Lift up the front case sub-assy and take it out.</p> 
<p><b>6. Remove vertical louver</b></p>	<p>Loosen the connection clasps between vertical louver and bottom case to remove vertical louver.</p> 

Step	Procedure
<b>7. Remove electric box assy</b>	
a	<p>Loosen the connection clasps between shield cover of electric box sub-assy and electric box, and then remove the shield cover of electric box sub-assy. Remove the screw fixing electric box assy .</p> 
b	<p>① Take off the water retaining sheet. Remove the cold plasma generator by screwing off the locking screw on the generator. ② Take off the indoor tube temperature sensor. ③ Screw off 1 grounding screw. ④ Remove the wiring terminals of motor and stepping motor. ⑤ Remove the electric box assy.</p> 
c	<p>Twist off the screws that are locking each lead wire and rotate the electric box assy. Twist off the screws that are locking the wire clip. Loosen the power cord and remove its wiring terminal. Lift up the main board and take it off.</p>  
d	<p>Instruction: Some wiring terminal of this product is with lock catch and other devices. The pulling method is as below: 1.Remove the soft sheath for some terminals at first, hold the circlip and then pull out the terminals. 2.Pull out the holder for some terminals at first (holder is not available for some wiring terminal), hold the connector and then pull the terminal.</p>  

Step	Procedure
<b>7.Remove evaporator assy</b>	
a	Remove 3 screws fixing evaporator assy.
b	At the back of the unit, remove the screw fixing connection pipe clamp and then remove the connection pipe clamp.
c	First remove the left side of the evaporator from the groove of bottom case and then remove the right side from the clasp on the bottom case.
d	Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.



Step	Procedure
<b>9. Remove motor and cross flow blade</b>	
a	<p>Remove the screws fixing motor clamp and then remove the motor clamp.</p> 
b	<p>Remove the screws at the connection place of cross flow blade and motor; lift the motor and cross flow blade upwards to remove them. Remove the bearing holder sub-assy. Remove the screw fixing step motor and then remove the step motor.</p> 


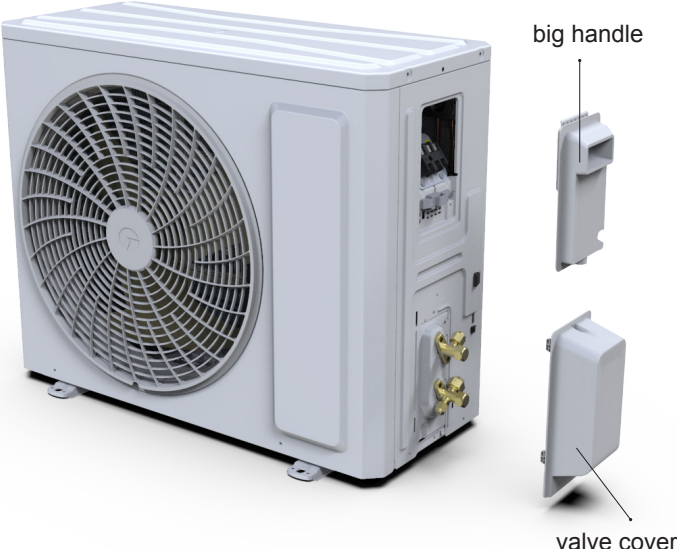





## 11.2 Removal Procedure of Outdoor Unit

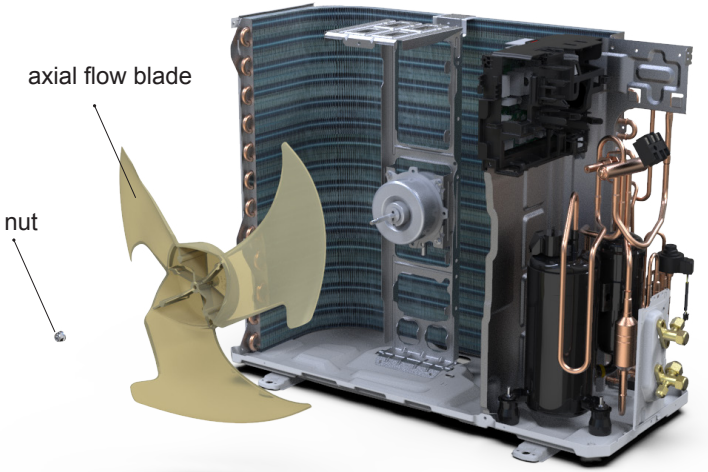
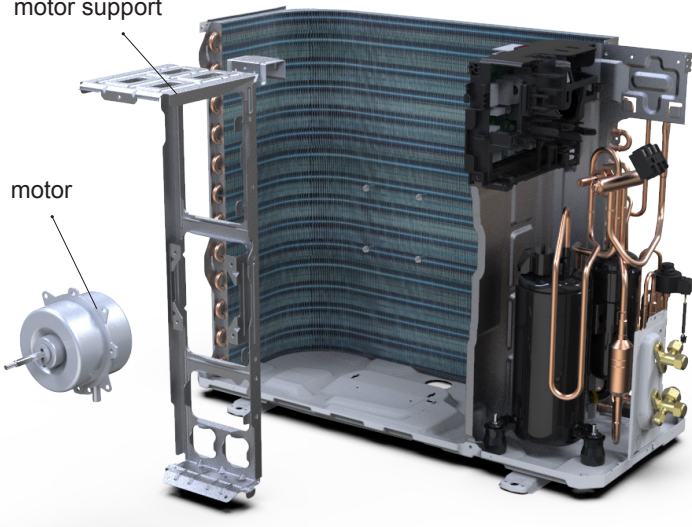
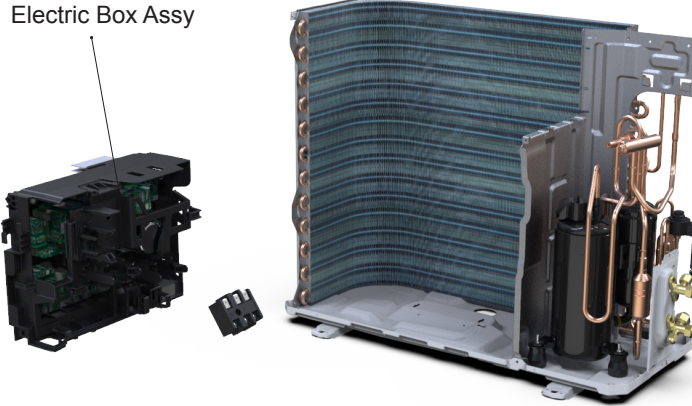
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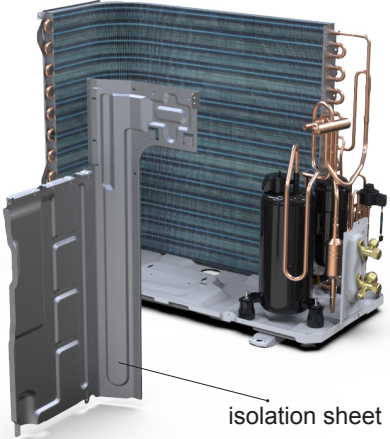
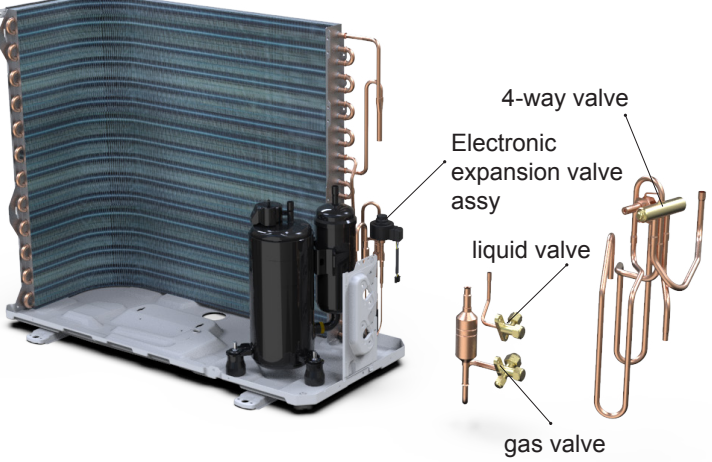

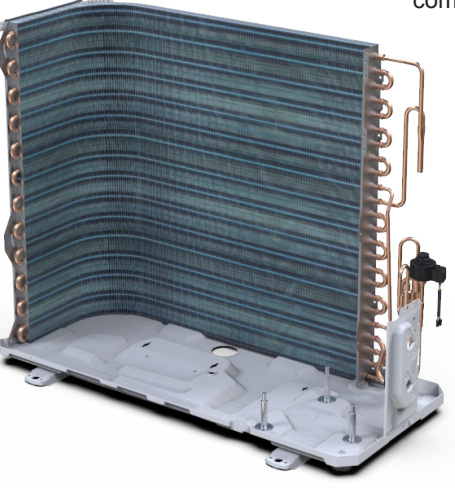
**Caution: discharge the refrigerant completely before removal.**

Step	Procedure
<b>1. Before disassembly</b>	
<b>2. Remove big handle and valve cover</b>	<p data-bbox="193 1148 786 1203">Remove the connection screw fixing the big handle and then remove the valve cover.</p> 
<b>3. Remove top cover</b>	<p data-bbox="193 1734 786 1814">Remove connection screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.</p> 




Step	Procedure
<p><b>4. Remove grille</b></p>	<p>Remove connection screws between the front grille and the front panel. Then remove the grille.</p> 
<p><b>5. Remove front panel</b></p>	<p>Remove connection screws connecting the front panel with the chassis and the motor support and then remove the front panel.</p> 
<p><b>6. Remove right side plate and left side plate</b></p>	<p>Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.</p> <p>Remove the screws fixing left side plate and then remove the left side plate.</p> 


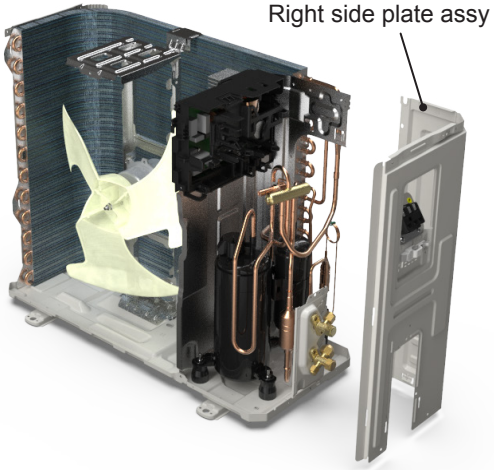
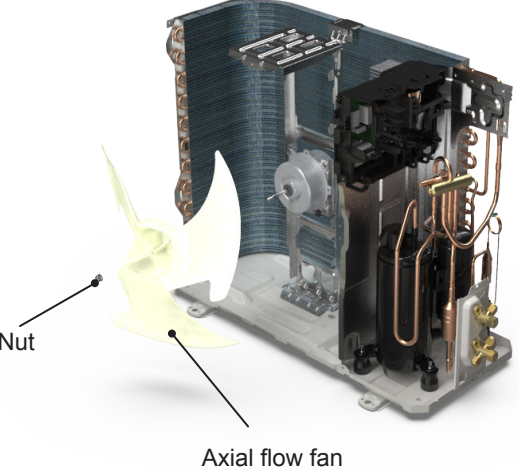
Step	Procedure
<p><b>7. Remove axial flow blade</b></p>	<p>Remove the nut on the blade and then remove the axial flow blade.</p> 
<p><b>8. Remove motor and motor support</b></p>	<p>Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor. Remove the tapping screws fixing the motor support and lift the motor support to remove it.</p> 
<p><b>9. Remove Electric Box Assy</b></p>	<p>Remove screws fixing the electric box subassembly; loosen the wire bundle and unplug the wiring terminals. Then lift the electric box to remove it.</p> 

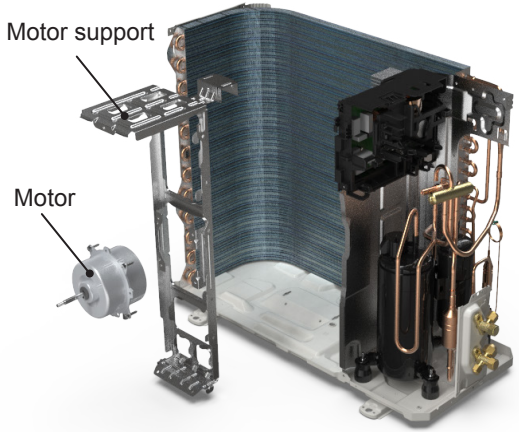
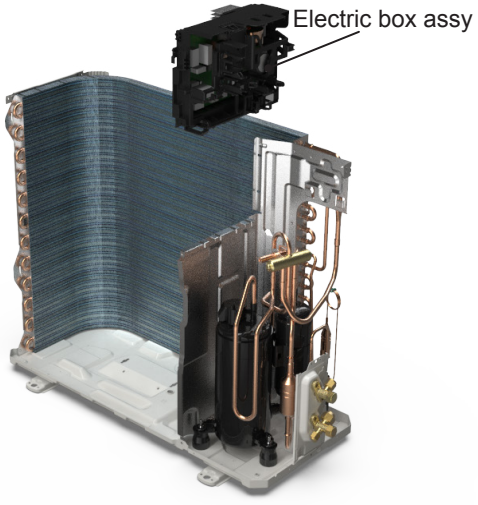
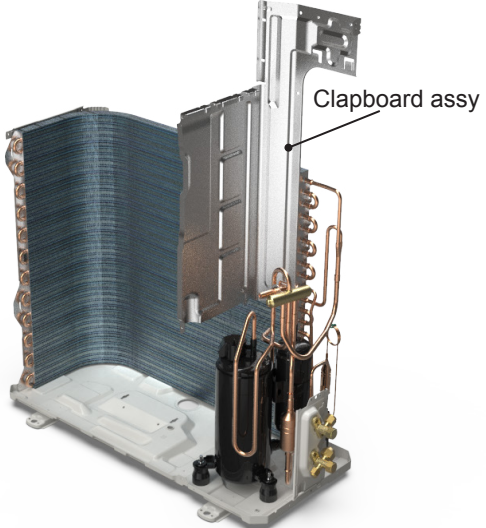


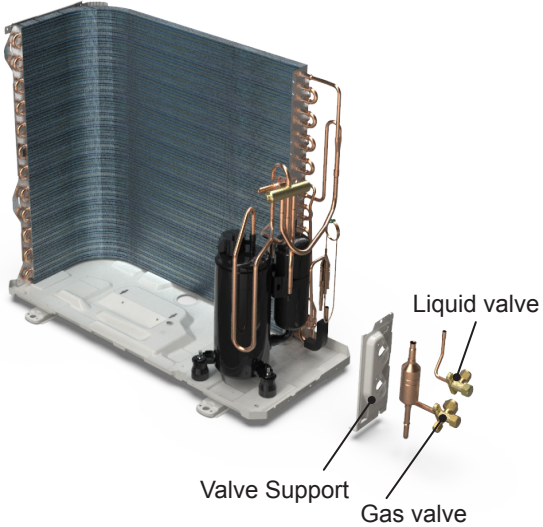
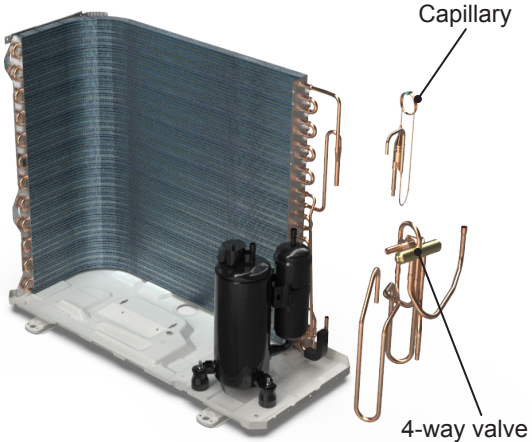
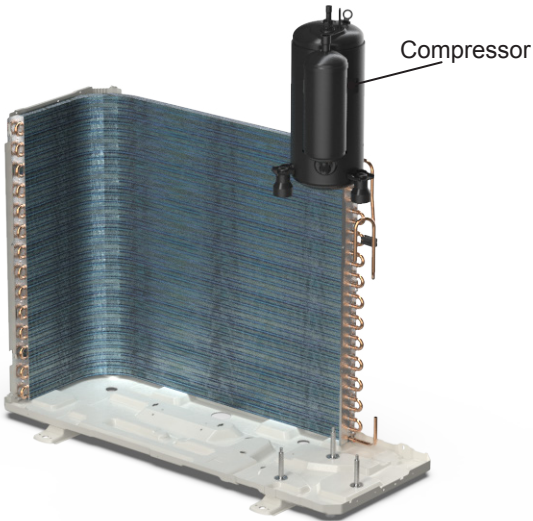
Step	Procedure
<b>10. Remove isolation sheet</b>	
	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p>  <p>The diagram shows a condenser coil assembly with a black isolation sheet partially detached. A label 'isolation sheet' points to the sheet.</p>
<b>11. Remove compressor</b>	
a	<p>Unsolder the welding joint connecting the capillary, valves and the outlet pipe of condenser to remove the capillary. Do not block the capillary with welding slag during unsoldering.</p>
b	<p>Remove the 2 screws fixing the gas valve and unsolder the welding joint between the gas valve and the air-return pipe to remove the gas valve. (NOTE: Discharge the refrigerant completely before unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature).</p> <p>Remove the 2 screws fixing the liquid valve and unsolder the welding joint connecting the liquid valve to the Y-type pipe to remove the liquid valve.</p>  <p>The diagram shows the condenser coil assembly with the gas valve and liquid valve removed. Labels point to the '4-way valve', 'Electronic expansion valve assy', 'liquid valve', and 'gas valve'.</p>
c	<p>Unsolder pipes connecting with compressor.</p>  <p>The diagram shows the compressor being removed from the condenser coil assembly. A label 'compressor' points to the black cylindrical component.</p>
d	<p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>  <p>The diagram shows the condenser coil assembly with the compressor removed. The compressor is shown separately above the coil.</p>




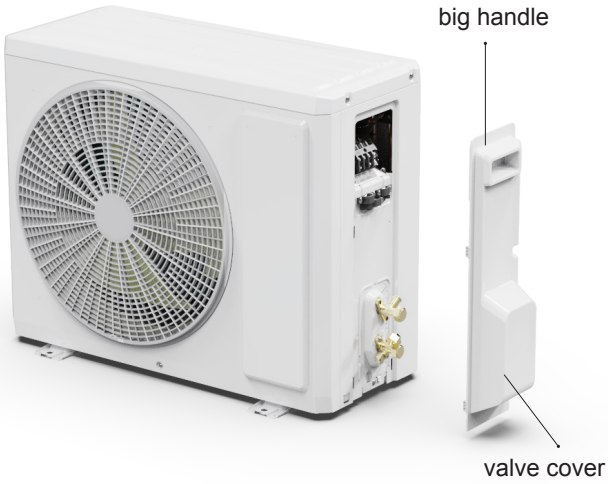

Step	Procedure
<p><b>1. Before disassembly</b></p>	
<p><b>2. Remove big handle and valve cover</b></p>	<p>Remove the screws fixing big handle, valve cover and then remove them.</p> 
<p><b>3. Remove top cover</b></p>	<p>Remove the screws fixing top panel and then remove the top panel.</p> 

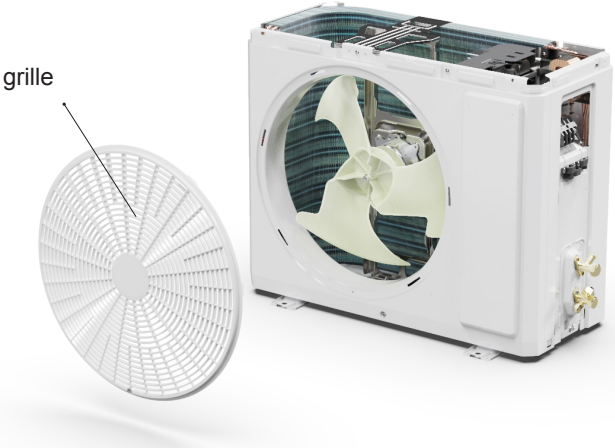
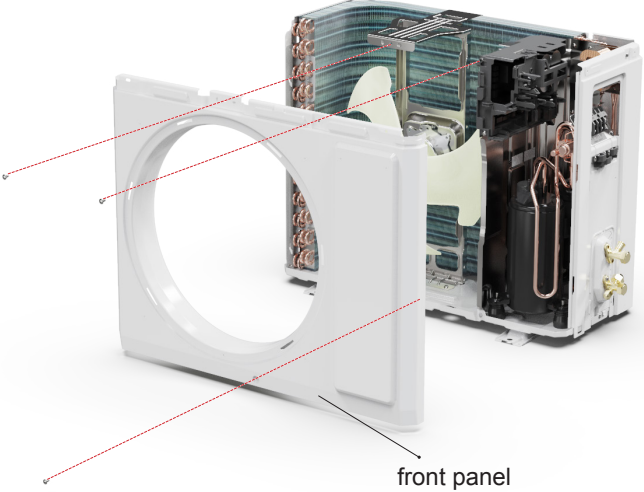
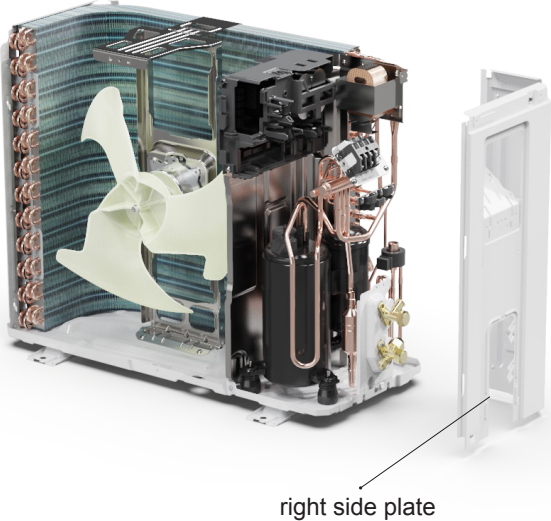
Step	Procedure
<p><b>4. Remove front panel assy</b></p>	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
<p><b>5. Remove right side plate assy</b></p>	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal board, remove the terminal board, rescrew the screws fixing the right plate, and remove the right side plate assy.</p> 
<p><b>6. Remove axial flow fan</b></p>	<p>Remove the nut on the fan and then remove the axial flow fan.</p> 

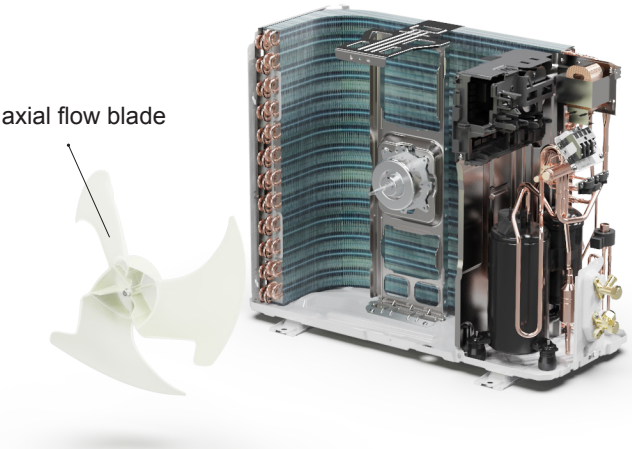
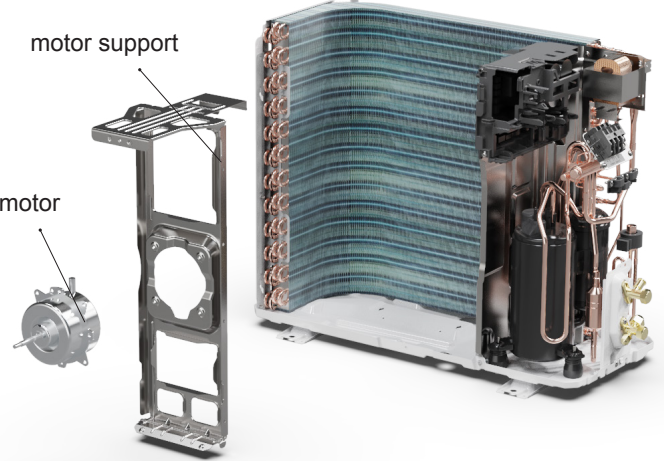
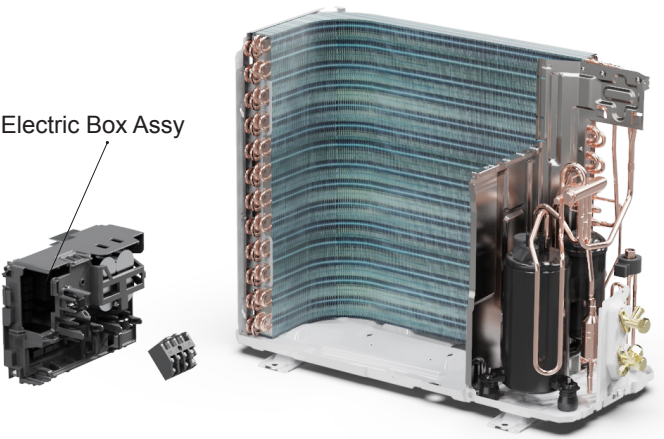
Step	Procedure
<p><b>7. Remove motor support and motor</b></p>	<p>Remove the screws fixing the motor support and lift the motor support to remove it. Remove the screws fixing the motor and then remove the motor.</p> 
<p><b>8. Remove electric box assy</b></p>	<p>Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.</p> 
<p><b>9. Remove clapboard assy</b></p>	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p> 

Step	Procedure
<p><b>10. Remove gas valve and liquid valve</b></p> <p>Remove the valve support block, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.</p> <p>Note: Discharge the refrigerant completely before unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>	 <p>The diagram illustrates the removal of the gas and liquid valves. It shows a 3D view of the refrigerant system with the valves removed. Labels include 'Valve Support', 'Gas valve', and 'Liquid valve'.</p>
<p><b>11. Remove 4-way valve and capillary</b></p> <p>Unsolder the welding joints connecting capillary, and then remove it.</p> <p>Unsolder the welding joints connecting the 4-way valve assembly with capillary sub-assembly, compressor and condenser; remove the 4-way valve. Cooling only unit removes Discharge Tube and Inhalation Tube.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>	 <p>The diagram illustrates the removal of the 4-way valve and capillary. It shows a 3D view of the refrigerant system with the 4-way valve and capillary removed. Labels include 'Capillary' and '4-way valve'.</p>
<p><b>12. Remove compressor</b></p> <p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>	 <p>The diagram illustrates the removal of the compressor. It shows a 3D view of the refrigerant system with the compressor removed. A label points to the 'Compressor'.</p>

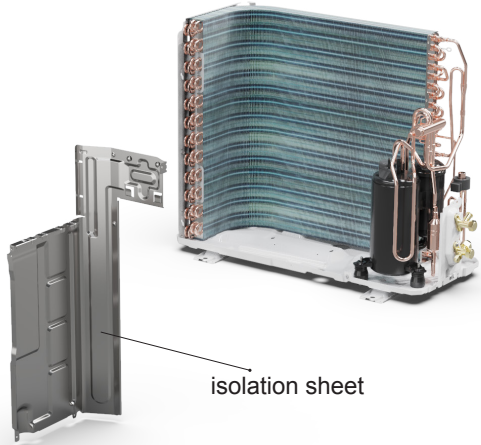
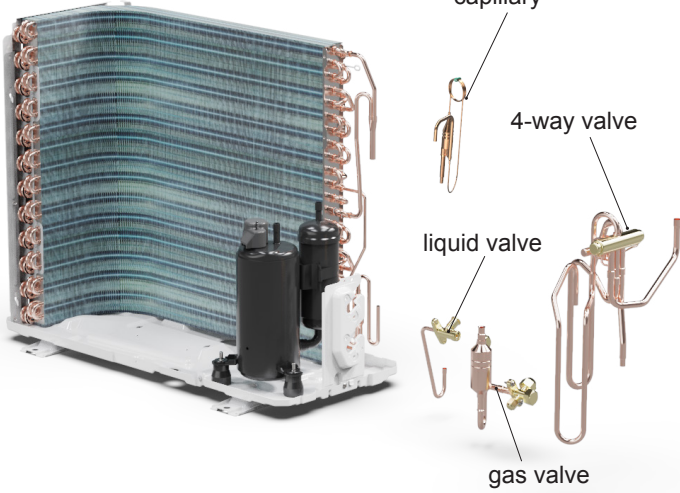
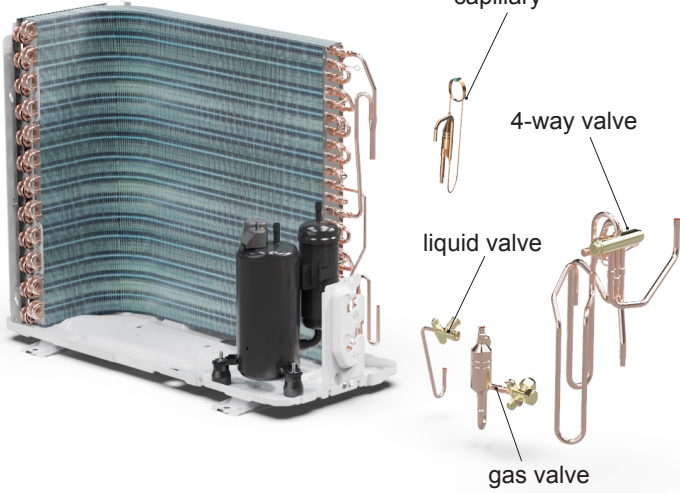

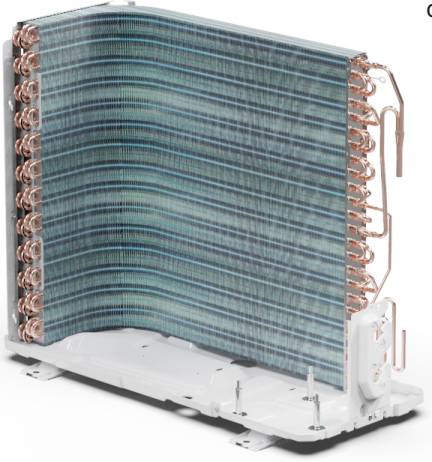


Step	Procedure
<p><b>1. Before disassembly</b></p>	
<p><b>2. Remove big handle and valve cover</b></p>	<p>Remove the connection screw fixing the big handle and then remove the valve cover.</p> 
<p><b>3. Remove top cover</b></p>	<p>Remove connection screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.</p> 

Step	Procedure
<p><b>4. Remove grille</b></p>	<p>Remove connection screws between the front grille and the front panel. Then remove the grille.</p> 
<p><b>5. Remove front panel</b></p>	<p>Remove connection screws connecting the front panel with the chassis and the motor support and then remove the front panel.</p> 
<p><b>6. Remove right side plate</b></p>	<p>Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.</p> 


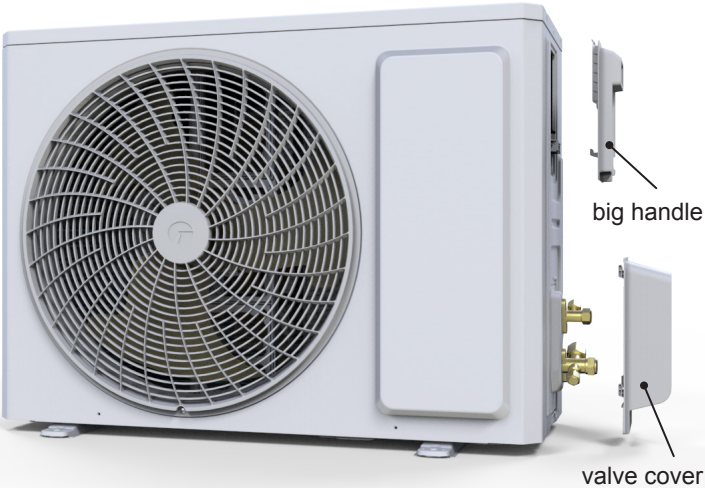
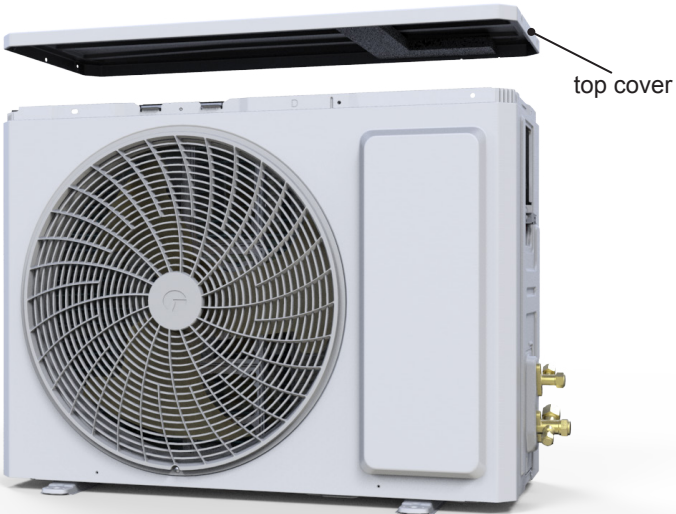
Step	Procedure
<p><b>7. Remove axial flow blade</b></p>	<p>Remove the nut on the blade and then remove the axial flow blade.</p> 
<p><b>8. Remove motor and motor support</b></p>	<p>Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor. Remove the tapping screws fixing the motor support and lift the motor support to remove it.</p> 
<p><b>9. Remove Electric Box Assy</b></p>	<p>Remove screws fixing the electric box subassembly; loosen the wire bundle and unplug the wiring terminals. Then lift the electric box to remove it.</p> 



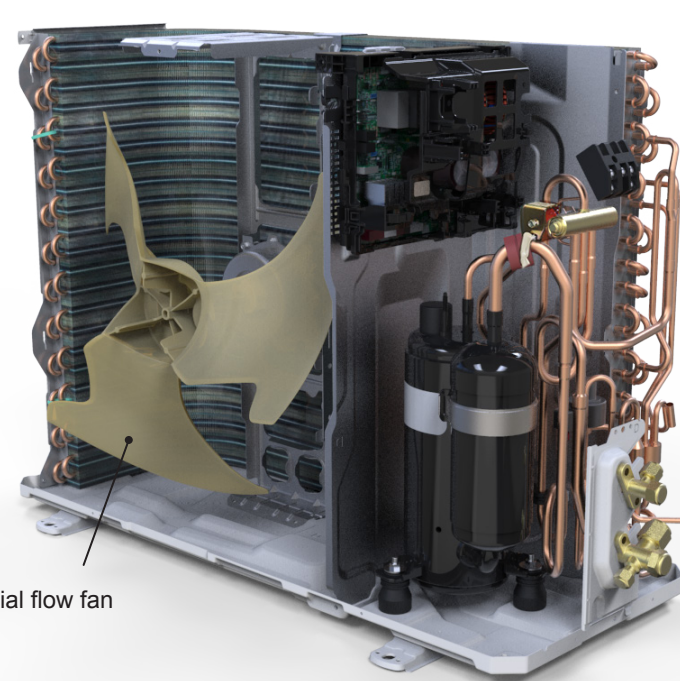


Step	Procedure
<b>10. Remove isolation sheet</b>	
	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p> 
<b>11. Remove compressor</b>	
a	<p>Unsolder the welding joint connecting the capillary, valves and the outlet pipe of condenser to remove the capillary. Do not block the capillary with welding slag during unsoldering.</p> 
b	<p>Remove the 2 screws fixing the gas valve and unsolder the welding joint between the gas valve and the air-return pipe to remove the gas valve. (NOTE: Discharge the refrigerant completely before unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature). Remove the 2 screws fixing the liquid valve and unsolder the welding joint connecting the liquid valve to the Y-type pipe to remove the liquid valve.</p> 
c	<p>Unsolder pipes connecting with compressor.</p> 
d	<p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p> 

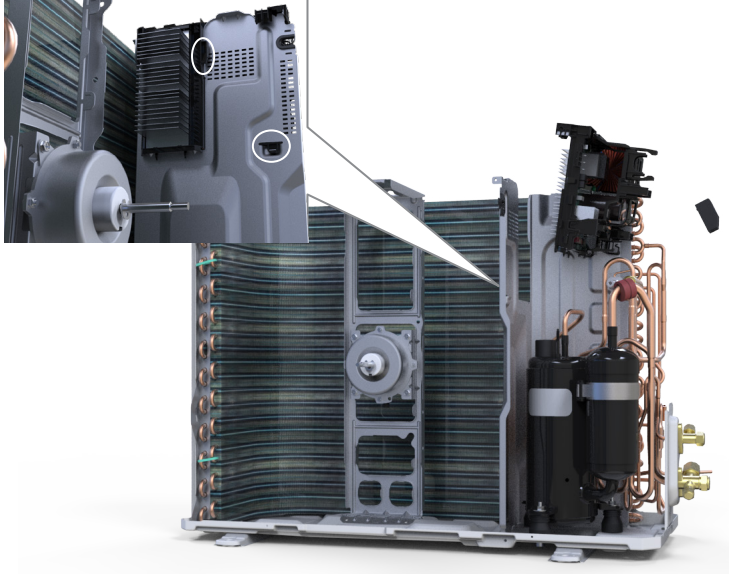
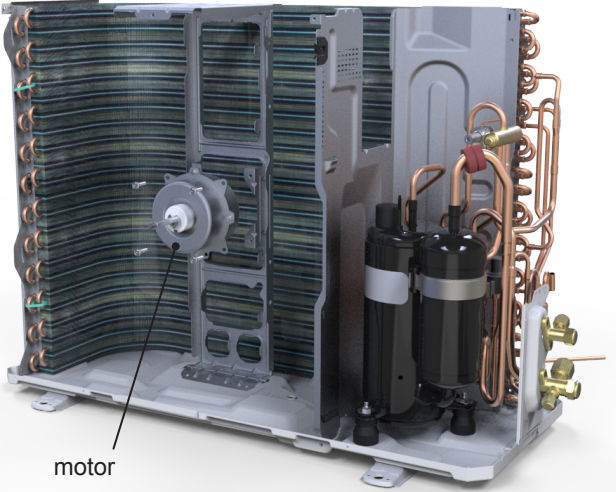
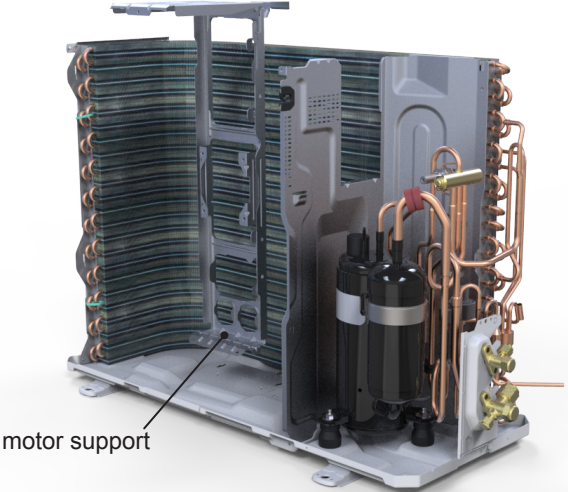


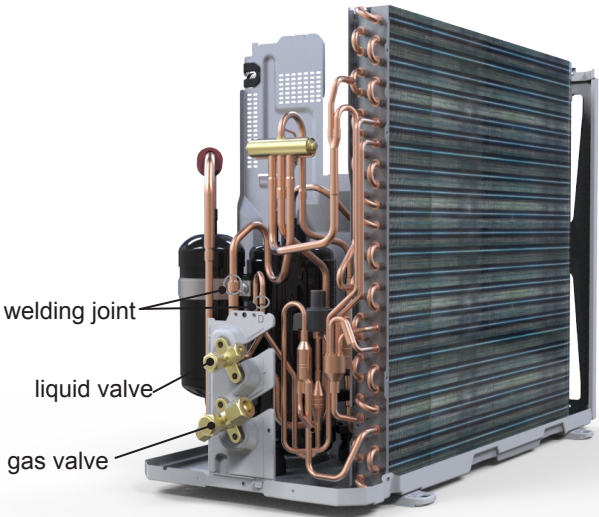

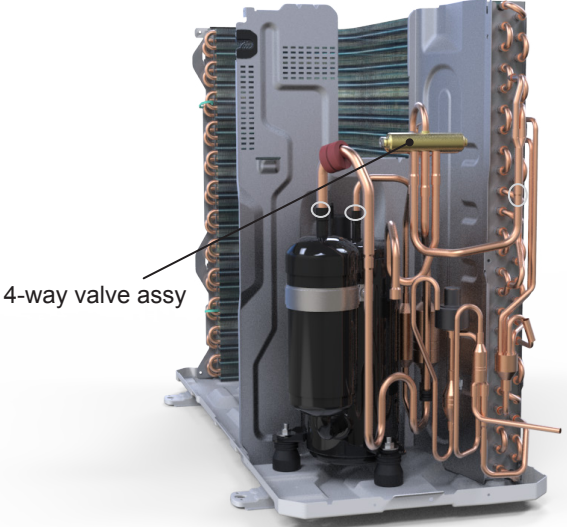
**Caution: discharge the refrigerant completely before removal.**

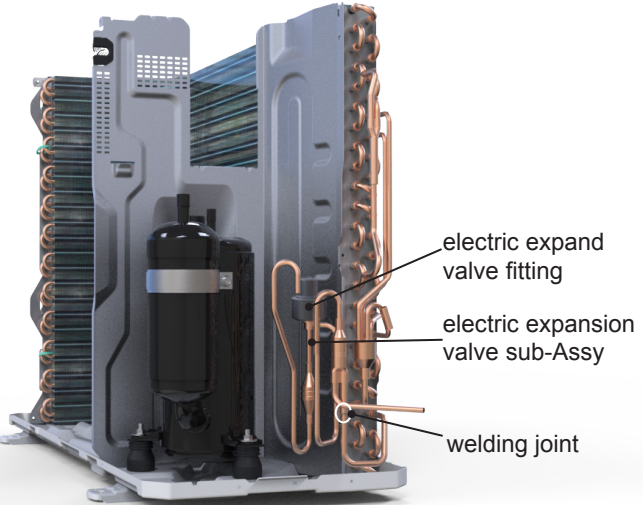
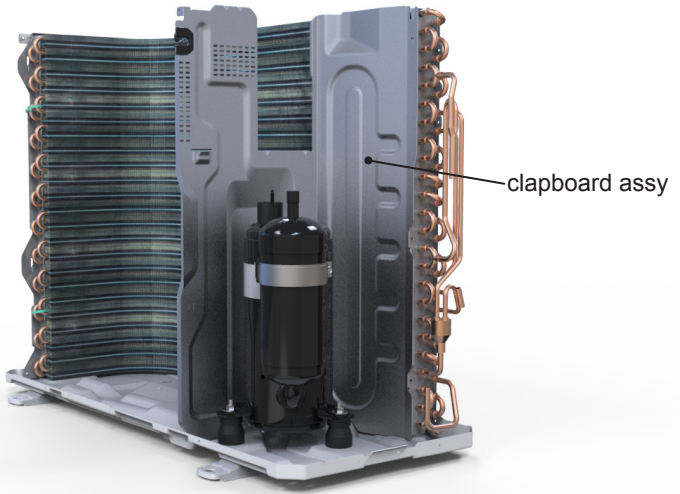

Step	Procedure
<p><b>1. Before disassembly</b></p>	
<p><b>2. Remove big handle and valve cover</b></p>	<p>Remove the screws fixing big handle, valve cover and then remove them.</p> 
<p><b>3. Remove top cover</b></p>	<p>Remove the screws fixing top panel and then remove the top panel.</p> 

Step	Procedure
<p><b>4. Remove front panel assy</b></p>	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
<p><b>5. Remove right side plate assy</b></p>	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal board, remove the terminal board, rescrew the screws fixing the right plate, and remove the right side plate assy.</p> 
<p><b>6. Remove axial flow fan</b></p>	<p>Remove the nut on the fan and then remove the axial flow fan.</p> 




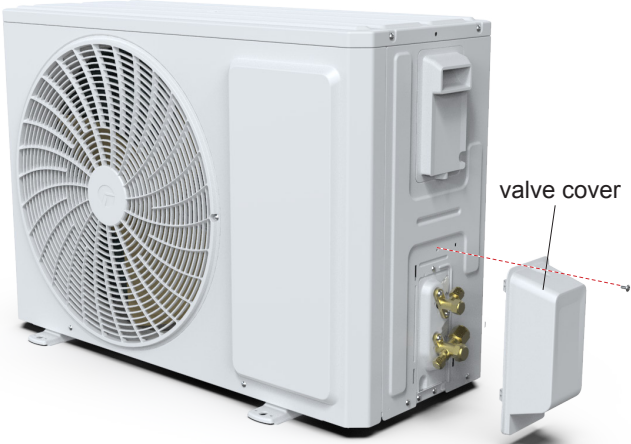
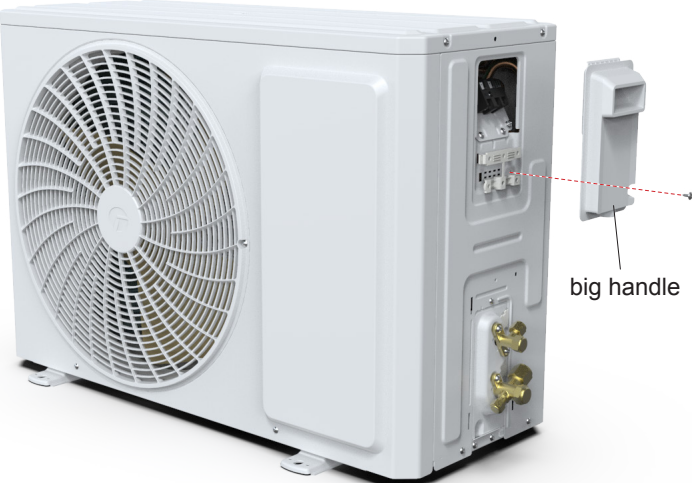
Step	Procedure
<p><b>7. Remove electric box assy</b></p>	<p>Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.</p> 
<p><b>8. Remove motor</b></p>	<p>Remove the screws fixing the motor and then remove the motor.</p> 
<p><b>9. Remove motor support</b></p>	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> 

Step	Procedure
<p><b>10. Remove gas valve and liquid valve</b></p> <p>Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve,unsolder the welding joint connecting the gas valve and the liquid valve, remove them.</p> <p>Note: Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>	 <p>welding joint</p> <p>liquid valve</p> <p>gas valve</p>
<p><b>11. Remove valve supprt</b></p> <p>Remove the screws fixing valve support, then remove the valve support.</p>	 <p>valve supprt</p>
<p><b>12. Remove 4-way valve assy</b></p> <p>Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>	 <p>4-way valve assy</p>



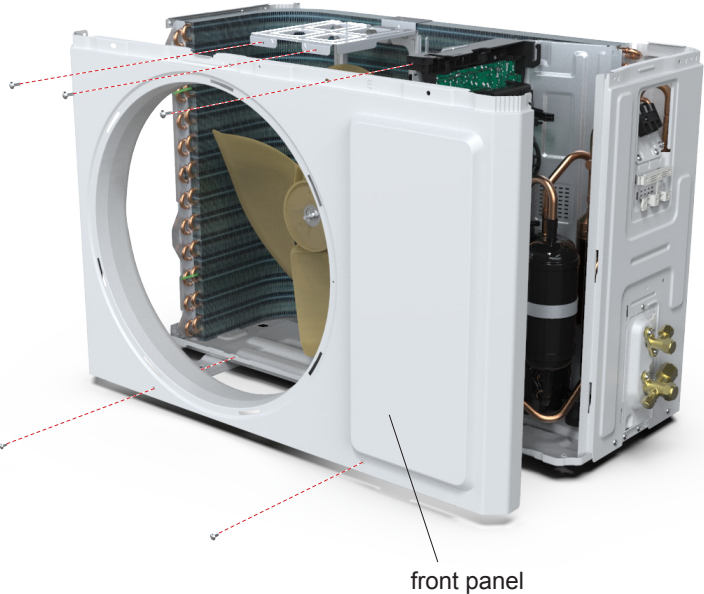
Step	Procedure
<p><b>13. Remove isolation sheet</b></p>	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p> 
<p><b>14. Remove clapboard assy</b></p>	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p> 
<p><b>15. Remove compressor</b></p>	<p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p> 

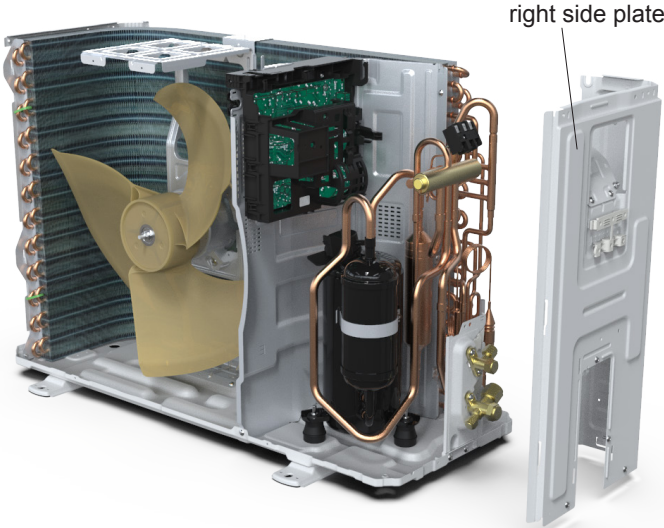
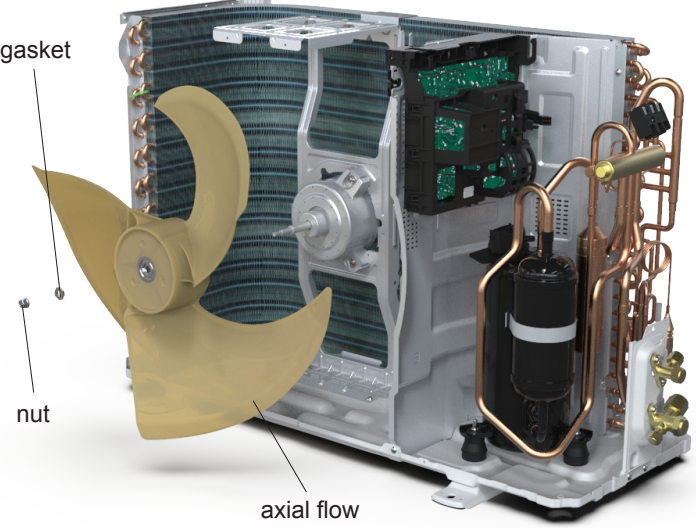
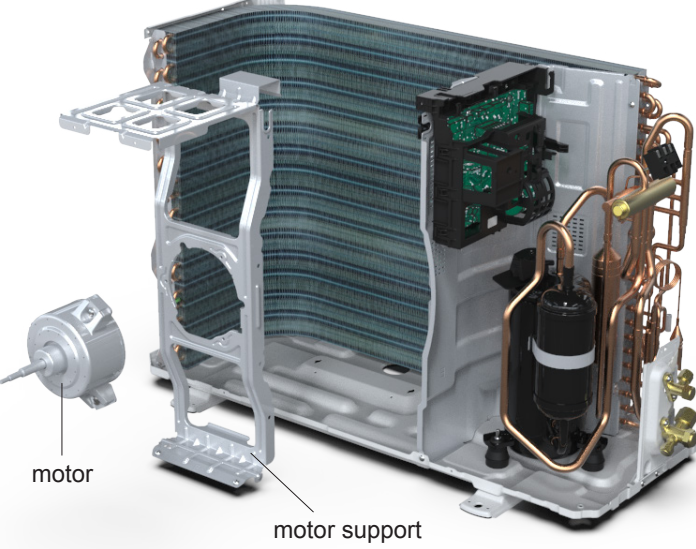


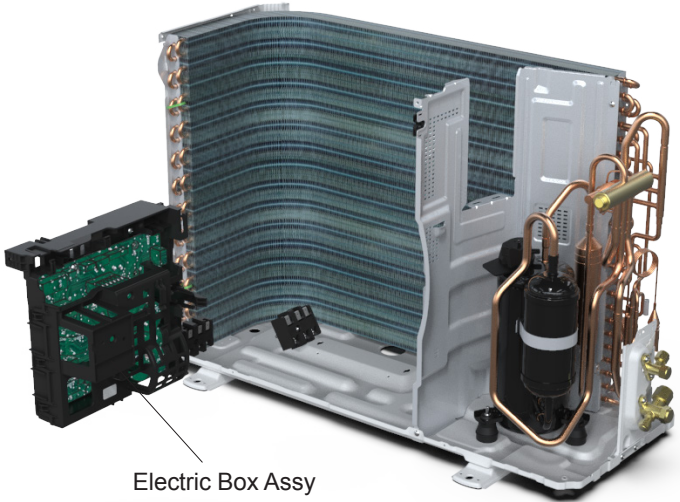

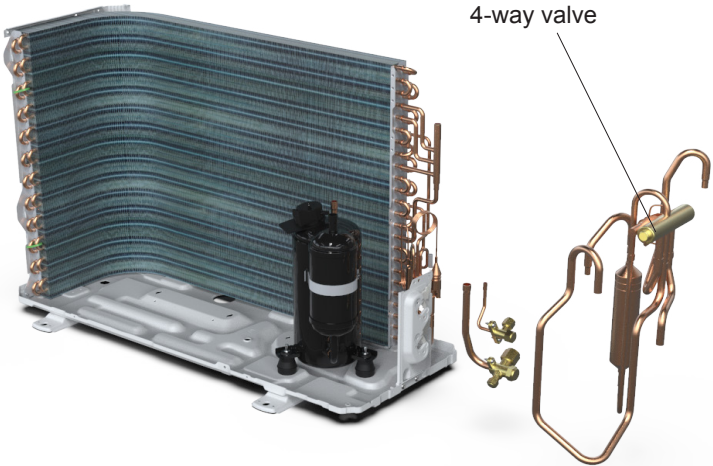
**Caution: discharge the refrigerant completely before removal.**

Step	Procedure
<b>1. Before disassembly</b>	
<b>2. Remove valve cover</b>	<p data-bbox="191 1148 786 1203">Remove the connection screw and then remove the valve cover.</p> 
<b>3. Remove big handle</b>	<p data-bbox="191 1749 786 1803">Remove the connection screw and then remove the big handle.</p> 

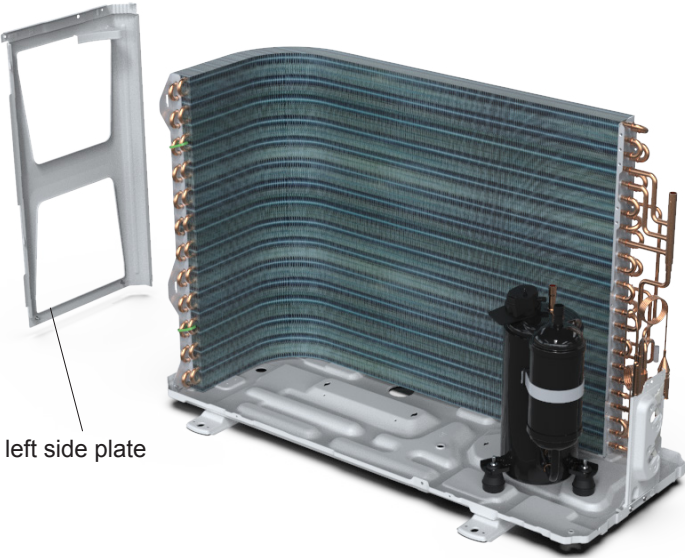
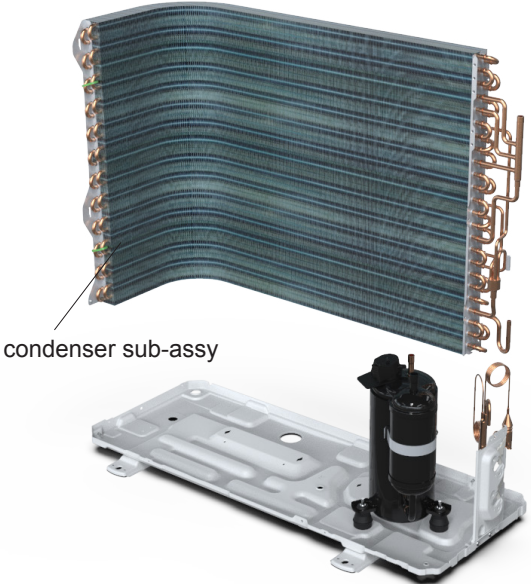
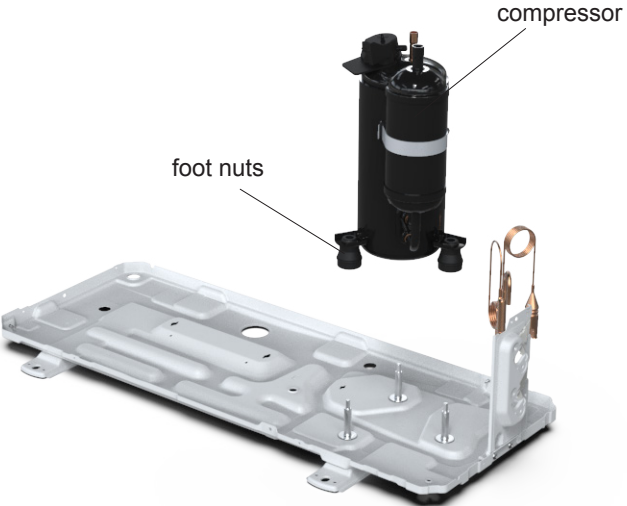


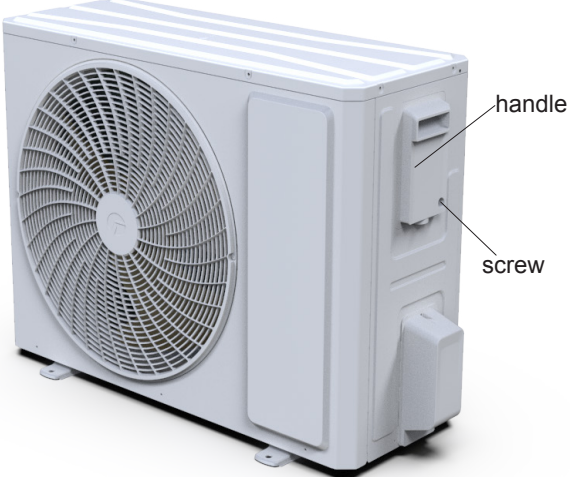
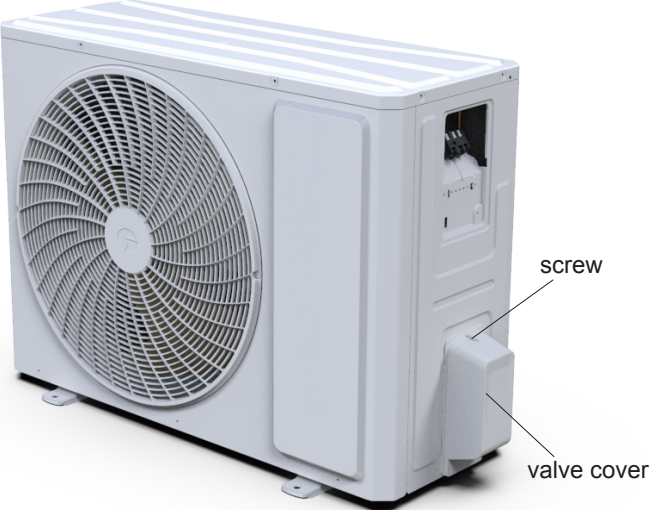
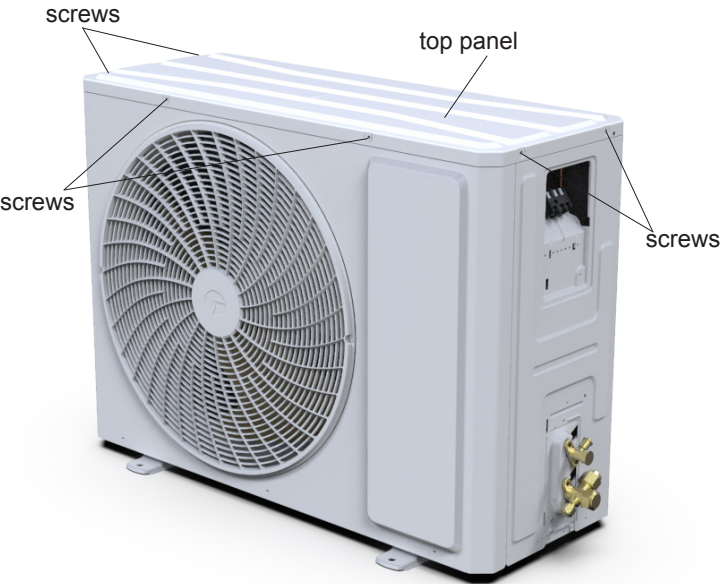
Step	Procedure
<p><b>4. Remove top cover</b></p>	<p>Remove connection screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.</p>  <p>top cover</p>
<p><b>5. Remove grille</b></p>	<p>Remove connection screws between the front grille and the front panel. Then remove the grille.</p>  <p>grille</p>
<p><b>6. Remove front panel</b></p>	<p>Remove connection screws connecting the front panel with the chassis and the motor support and then remove the front panel.</p>  <p>front panel</p>

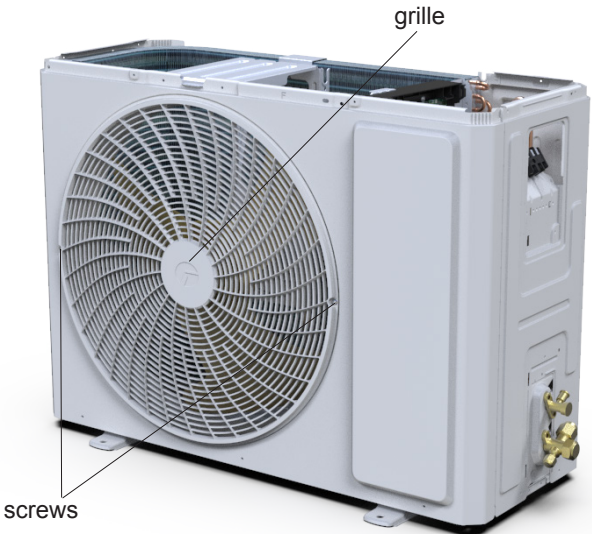
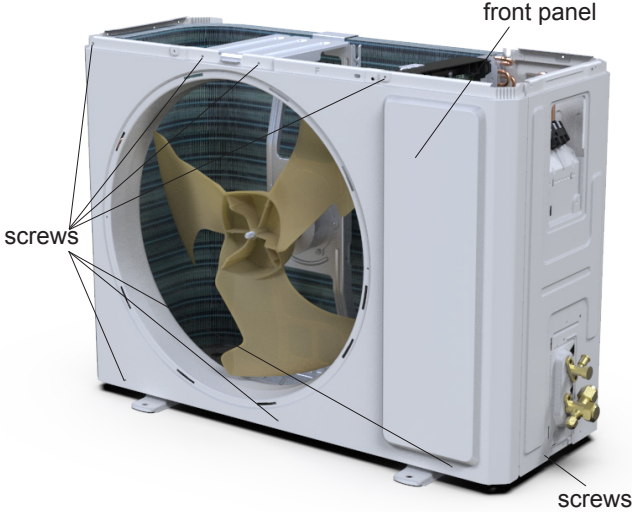
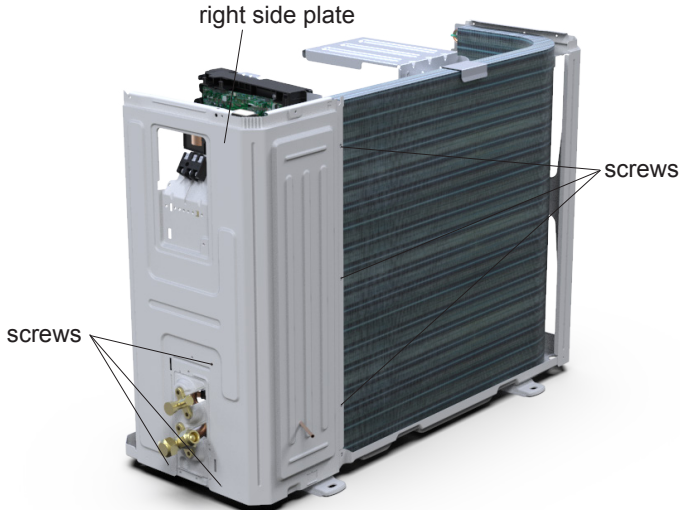
Step	Procedure
<p><b>7. Remove right side plate</b></p>	<p>Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.</p> 
<p><b>8. Remove the nut and gasket on the blade and then remove the axial flow blade</b></p>	<p>Remove the nut and gasket on the blade and then remove the axial flow blade.</p> 
<p><b>9. Remove motor and motor support</b></p>	<p>Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor. Remove the tapping screws fixing the motor support and lift the motor support to remove it.</p> 

Step	Procedure
<p><b>10. Remove Electric Box Assy</b></p>	<p>Remove screws fixing the electric box subassembly; loosen the wire bundle and unplug the wiring terminals. Then lift the electric box to remove it.</p>  <p>Electric Box Assy</p>
<p><b>11. Remove isolation sheet</b></p>	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p>  <p>isolation sheet</p>
<p><b>12. Remove 4-way valve assy and cut-off valve</b></p>	<p>Unsolder the welding joints connecting the 4-way valve assy and cut-off valve, remove the 4-way valve and cut-off valve.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>  <p>4-way valve</p>

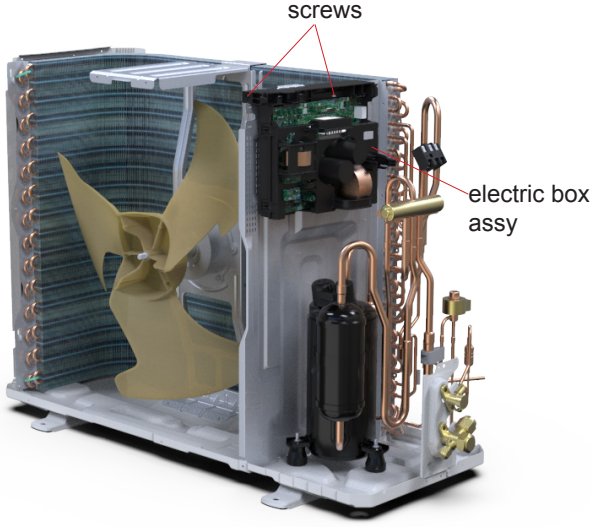
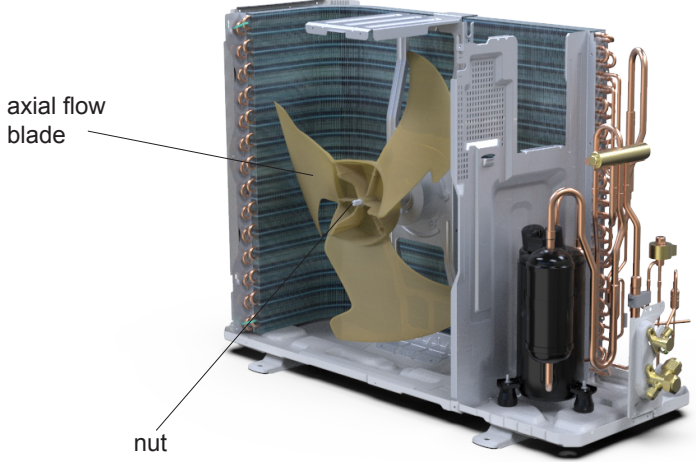
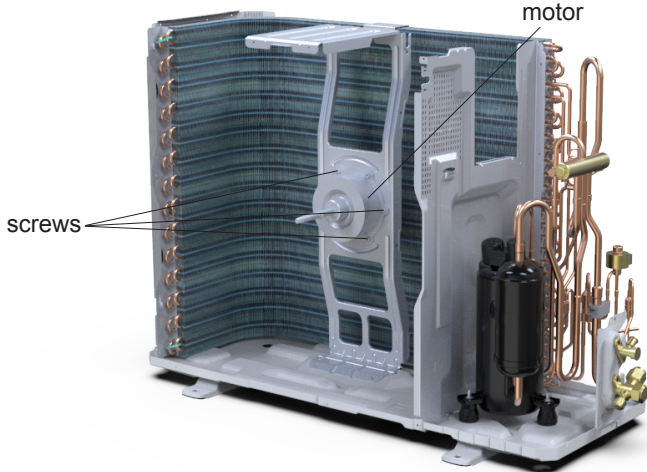


Step	Procedure
<p><b>13. Remove left side plate</b></p>	<p>Remove the screws fixing the left side plate and then remove the left side plate.</p> 
<p><b>14. Remove condenser sub-assy</b></p>	<p>Remove the screws fixing the Remove condenser sub-assy and then remove the Remove condenser sub-assy.</p> 
<p><b>15. Remove compressor</b></p>	<p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p> 

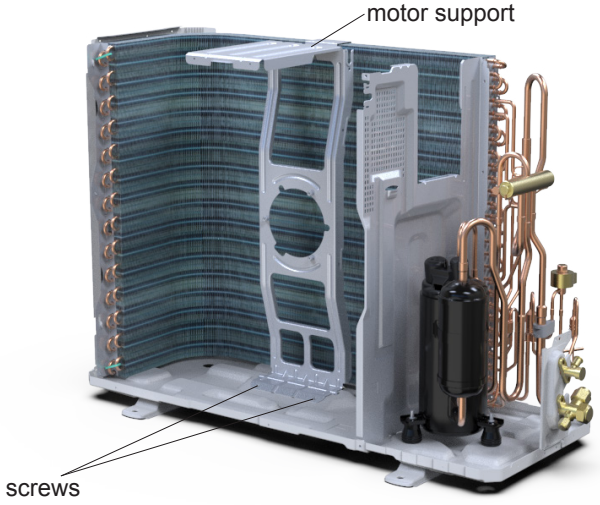
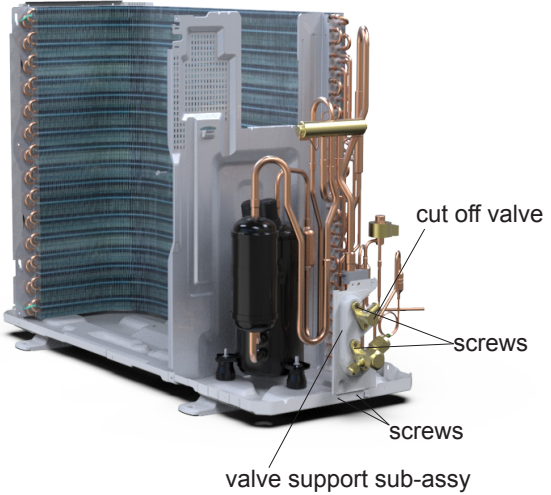
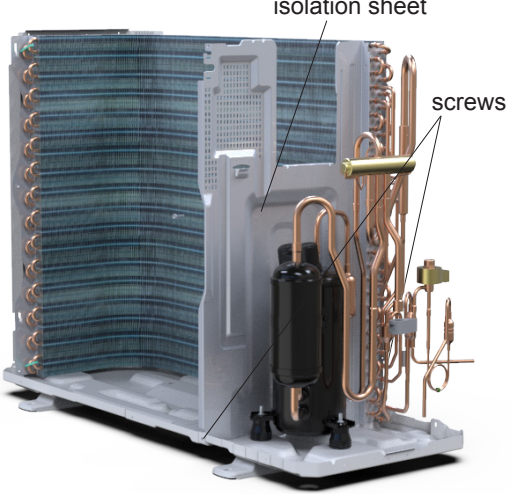
Step	Procedure
<p><b>1. Remove handle</b></p>	<p>Remove the screw fixing the handle and then remove the handle.</p>  <p>The diagram shows the right side of the outdoor unit. A handle is attached to the panel, secured by a screw. Labels 'handle' and 'screw' point to these components.</p>
<p><b>2. Remove valve cover</b></p>	<p>Remove the screw fixing the valve cover and then remove the valve cover.</p>  <p>The diagram shows the right side of the outdoor unit with the handle removed. A valve cover is attached to the panel, secured by a screw. Labels 'screw' and 'valve cover' point to these components.</p>
<p><b>3. Remove top panel</b></p>	<p>Remove the screws fixing the top panel and then remove the top panel.</p>  <p>The diagram shows the top and right side of the outdoor unit. The top panel is secured by several screws. Labels 'screws' and 'top panel' point to these components.</p>


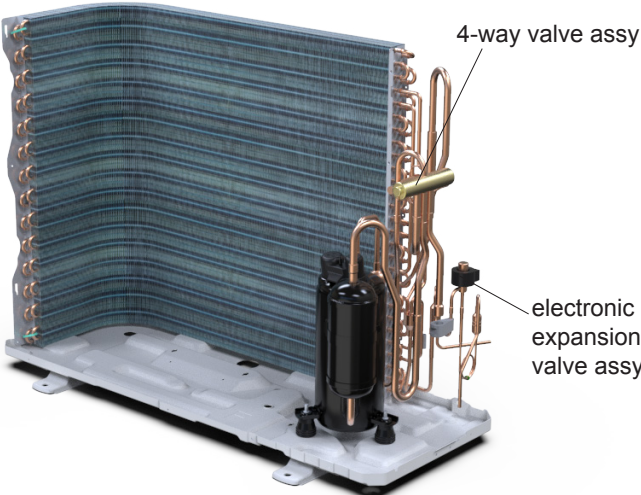
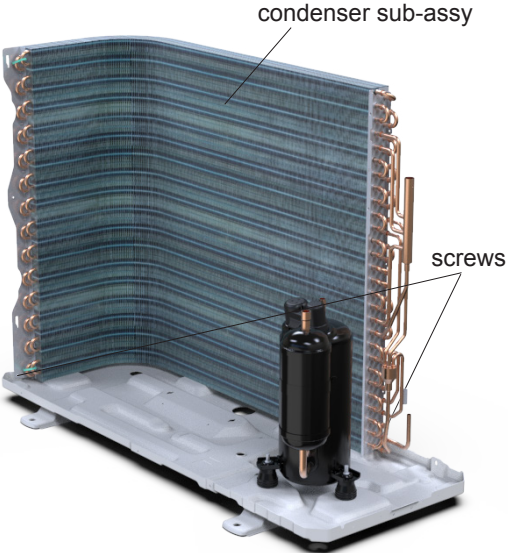
Step	Procedure
<p><b>4. Remove grille</b></p>	<p>Remove the screws fixing the grille and then remove the panel grille.</p> 
<p><b>5. Remove front panel</b></p>	<p>Remove screws fixing the front panel and then remove the front panel.</p> 
<p><b>6. Remove right side plate</b></p>	<p>Remove screws fixing connecting the front panel with the chassis and the motor support, and then remove the right side plate.</p> 

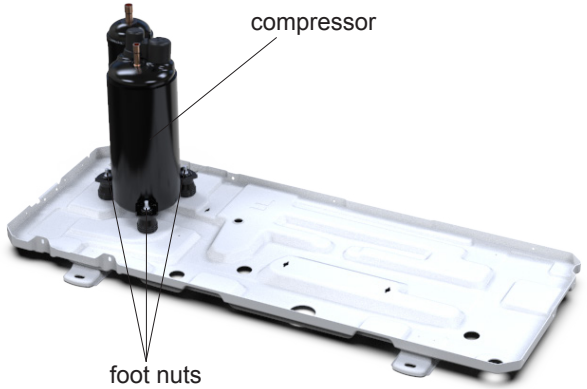


Step	Procedure
<p><b>7. Remove electric box assy</b></p>	<p>Remove the screws fixing the electricbox; loosen the wire bundle; pull out the wiring terminals and then pull electric boxupwards to remove it.</p> 
<p><b>8. Remove axial flow blade</b></p>	<p>Remove nut fixing the blade and then remove the blade.</p> 
<p><b>9. Remove motor</b></p>	<p>Remove screws fixing the motor and then remove the motor.</p> 



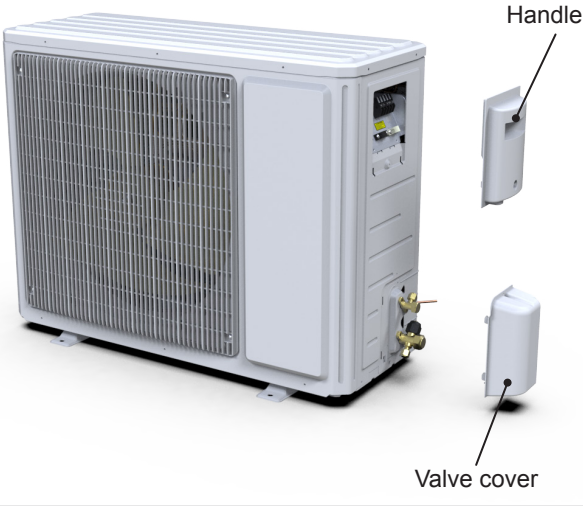


Step	Procedure
<p><b>10. Remove motor support</b></p>	<p>Remove screws fixing the motor support and then remove the motor support.</p> 
<p><b>11. Remove cut off valve and valve support sub-assy</b></p>	<p>Remove screws fixing the cut off valve and then remove the cut off valve; Remove screws fixing the valve support subassy and then remove the valve support subassy. Note: When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.</p> 
<p><b>12. Remove isolation sheet</b></p>	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p> 

Step	Procedure
<p><b>13. Remove left side plate</b></p>	<p>Remove the screws fixing the left side plate and the chassis, and then remove the left side plate.</p> 
<p><b>14. Remove 4-way valve assy and electronic expansion valve assy</b></p>	<p>Unsolder the welding joints connecting electronic expansion valve assy the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the electronic expansion valve assy and 4-way valve.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p> 
<p><b>15. Remove condenser sub-assy</b></p>	<p>Remove the screws fixing the condenser and chassis, and then lift the condenser upwards to remove it.</p> 

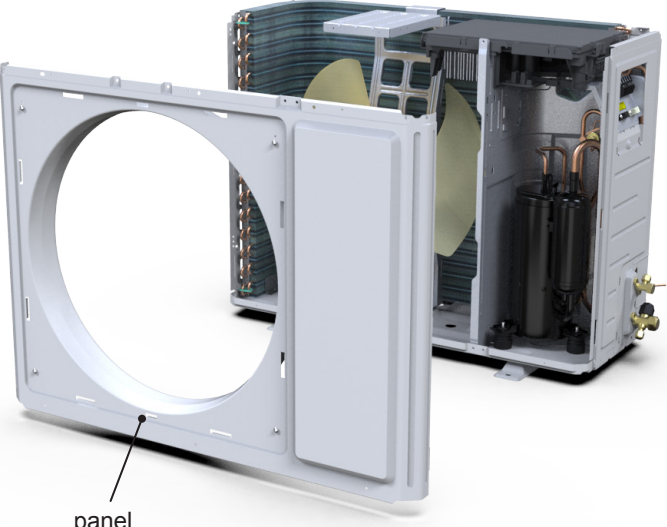
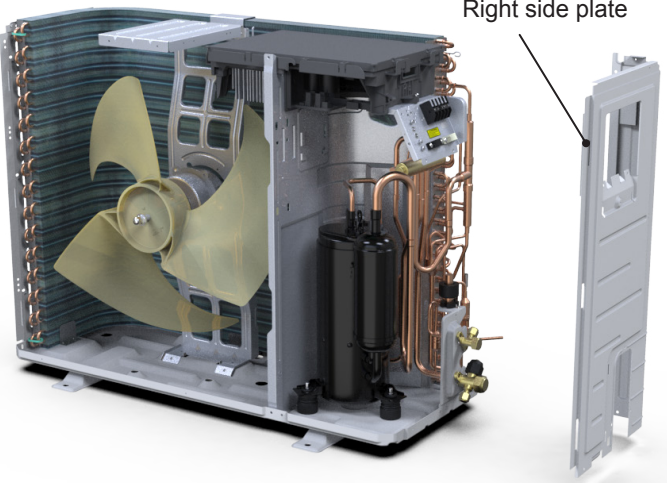
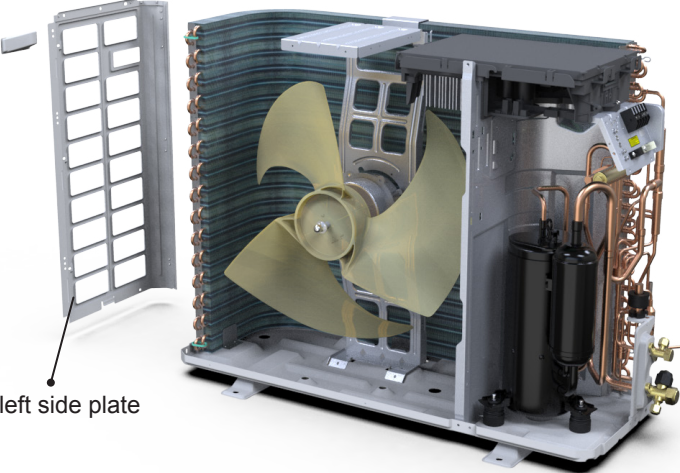
Step	Procedure
<b>16. Remove compressor</b>	<p data-bbox="191 535 792 600">Remove the 3 foot nuts on the compressor and then remove the compressor.</p> 

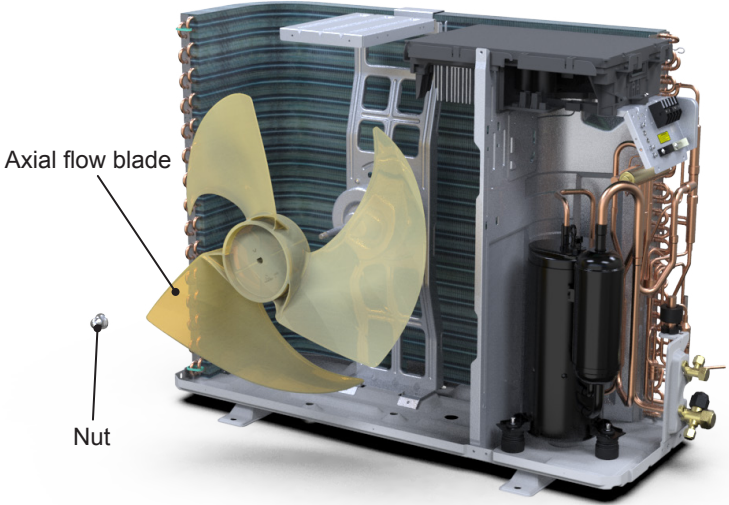
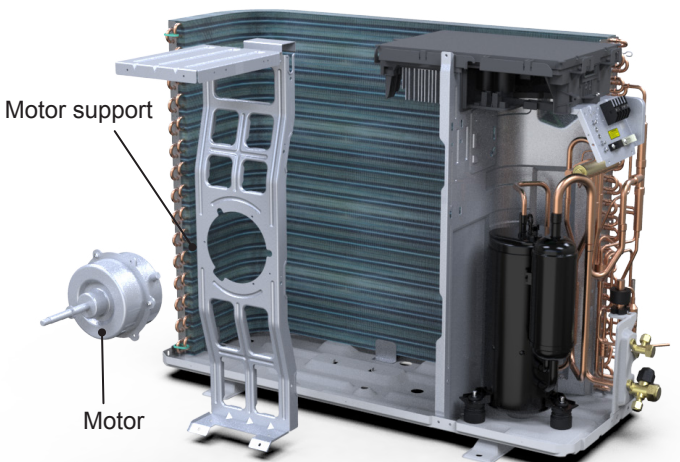
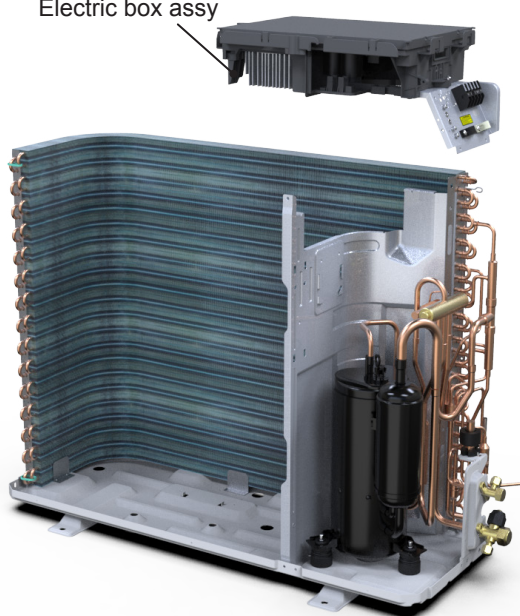


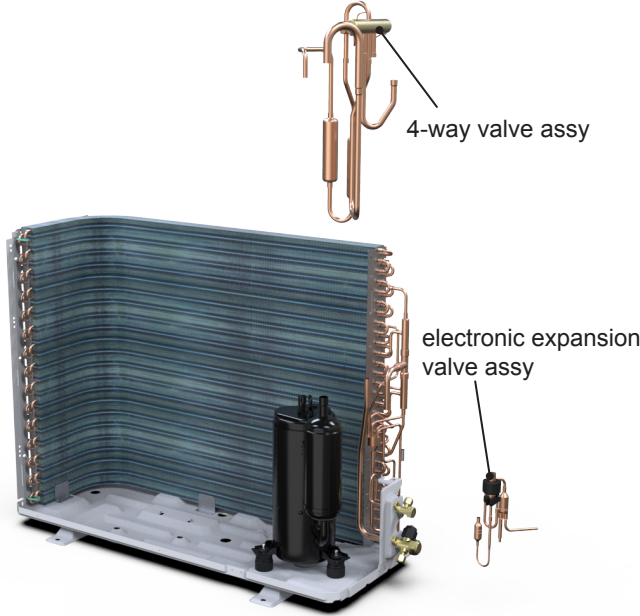
**Caution: discharge the refrigerant completely before removal.**

Step	Procedure
<b>1. Remove top panel</b>	
a	<p>Twist off the screws used for fixing the handle and valve cover, pull the handle and valve cover up ward to remove it.</p> 
b	<p>Remove the 3 screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.</p> 
<b>2. Remove grille and panel</b>	
a	<p>Remove the 2 screws connecting the grille and the panel, and then remove the grille.</p> 

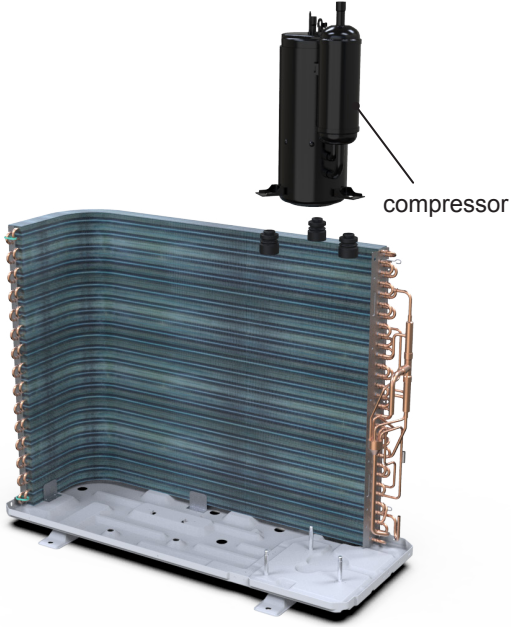
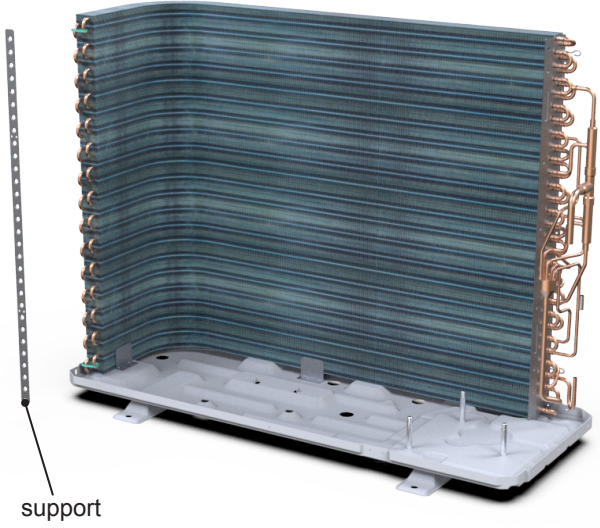
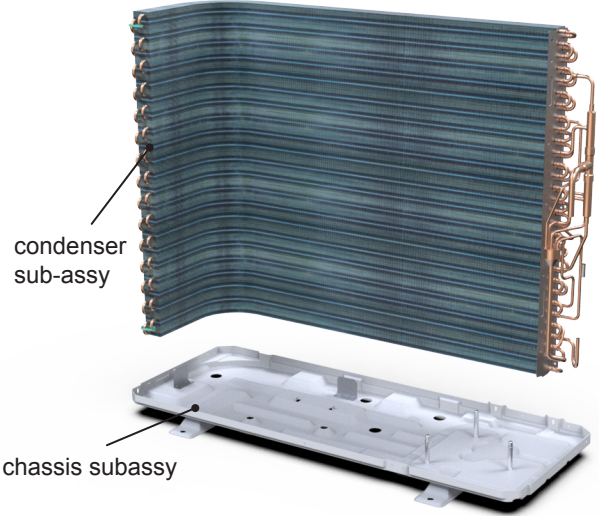


Step	Procedure	Image
b	Remove the screws connecting the outer case with motor support, isolation plate and chassis; lift the outer case upwards; loosen the clasps of outer case with right side plate and left side plate, and then remove the outer case.	 <p>panel</p>
<b>3. Remove right&amp;left side plate</b>		
a	Remove the screws connecting the right side plate with electric box assy, valve support, chassis and condenser side plate, and then remove the right side plate.	 <p>Right side plate</p>
b	Remove the screws connecting the left side plate with chassis, and then remove the left side plate.	 <p>left side plate</p>

Step	Procedure
<b>4. Remove axial flow blade</b>	
a	<p>Remove the nut fixing axial flow blade and then remove the blade.</p> 
b	<p>Remove the 6 screws fixing the motor and then remove the motor. Remove the 2 screws connecting the motor support and chassis, and then loosen the stopper to remove the motor support.</p> 
<b>6. Remove electric box assy</b>	
	<p>Remove the screws fixing electric box assy ; pull out each wiring terminal; lift the electric box assy upwards to remove it. Note: When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.</p> 




Step	Procedure
<p><b>7. Remove isolation plate</b></p>	<p>Remove the 2 screws connecting the isolation plate and condenser side plate; remove the 3 screws connecting the isolation plate and chassis, and then remove the isolation plate.</p>  <p>The diagram shows a grey metal isolation plate being lifted away from a condenser assembly. The condenser consists of a blue coil of copper pipes. A black cylindrical component, likely a compressor or expansion valve, is mounted on the condenser. The entire assembly is mounted on a white chassis. A label 'isolation plate' points to the grey metal plate.</p>
<p><b>8. Remove 4-way valve assy and electronic expansion valve assy</b></p>	<p>Unsolder the welding joints connecting electronic expansion valve assy the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the electronic expansion valve assy and 4-way valve.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>  <p>The diagram shows the condenser assembly with the 4-way valve assembly and electronic expansion valve assembly removed. The 4-way valve assembly is a copper pipe fitting with four ports, and the electronic expansion valve assembly is a small black component with a copper pipe. Labels '4-way valve assy' and 'electronic expansion valve assy' point to their respective parts.</p>
<p><b>9. Remove liquid valve and gas valve</b></p>	<p>Unsolder the welding joint connecting the valve with capillary and condenser; unsolder the welding joint connecting the gas valve and air-return pipe; remove the 2 screws fixing the gas valve to remove the gas valve.</p> <p>Unsolder the welding joint connecting the liquid valve and Y-shaped pipe; remove the 2 screws fixing the liquid valve to remove the liquid valve.</p> <p>Note: Before unsoldering the welding joint, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>  <p>The diagram shows the condenser assembly with the liquid valve and gas valve removed. The liquid valve is a copper pipe fitting with a Y-shaped pipe, and the gas valve is a small black component with a copper pipe. Labels 'Liquid valve' and 'Gas valve' point to their respective parts.</p>


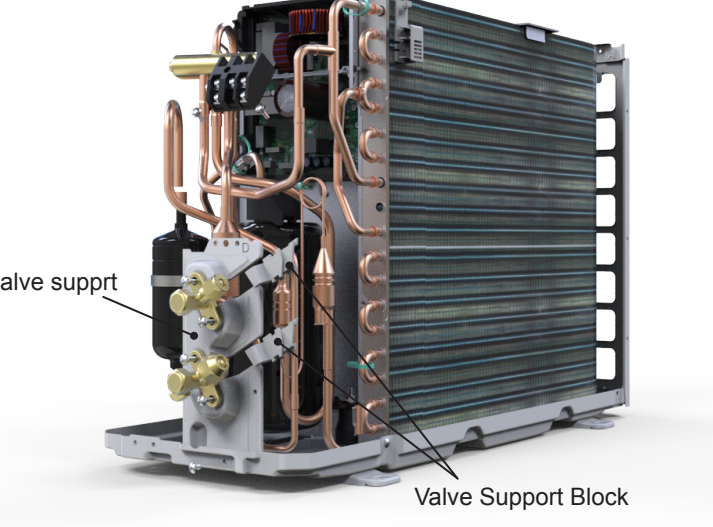


Step	Procedure	
<p><b>11.Remove compressor</b></p>	<p>Remove the 3 foot nuts fixing compressor and then lift the compressor upwards to remove the compressor and damping cushion.</p> <p>Note: Keep the ports of discharge pipe and suction pipe from foreign objects.</p>	
<p><b>12.Remove condenser sub-assy</b></p>	<p>a Remove the screws connecting the support (condenser) and condenser assy,and then remove the support(condenser).</p>	
<p>b</p>	<p>Remove the 2 screws fixing the condenser and chassis, and then lift the condenser upwards to remove it.</p>	

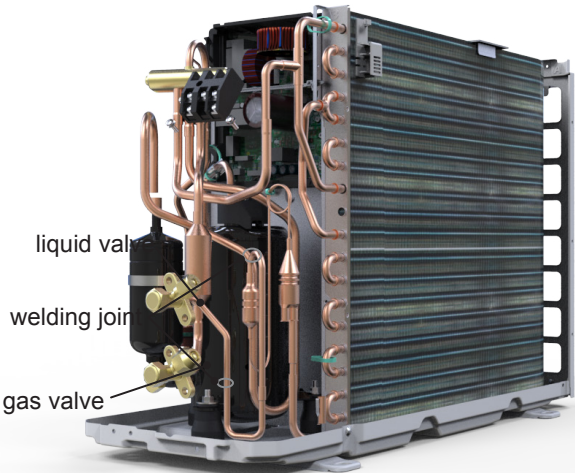
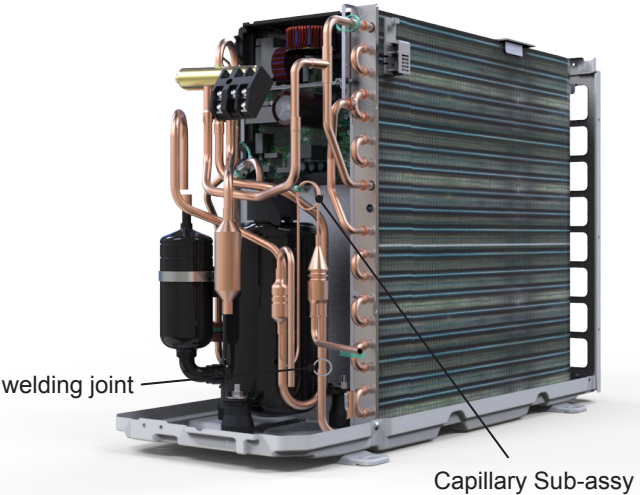
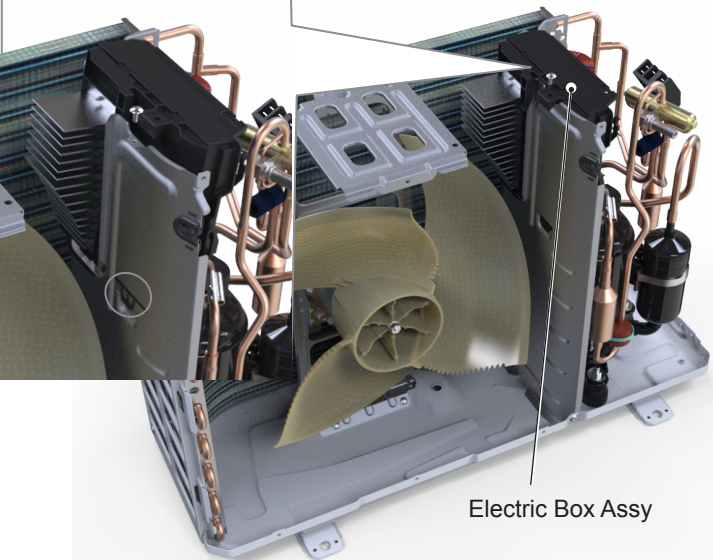


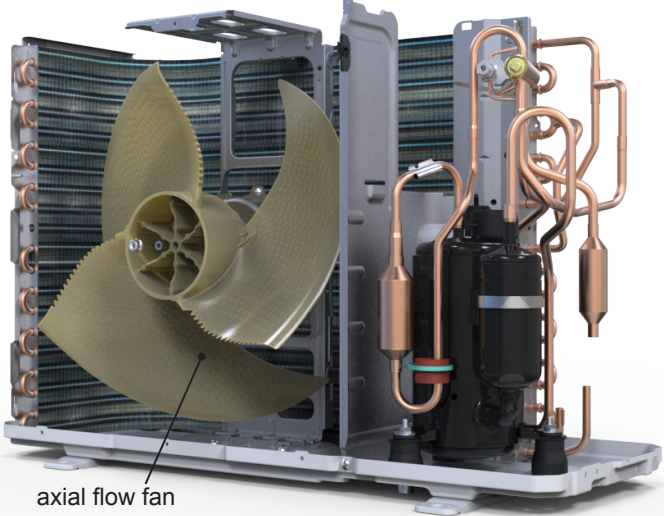
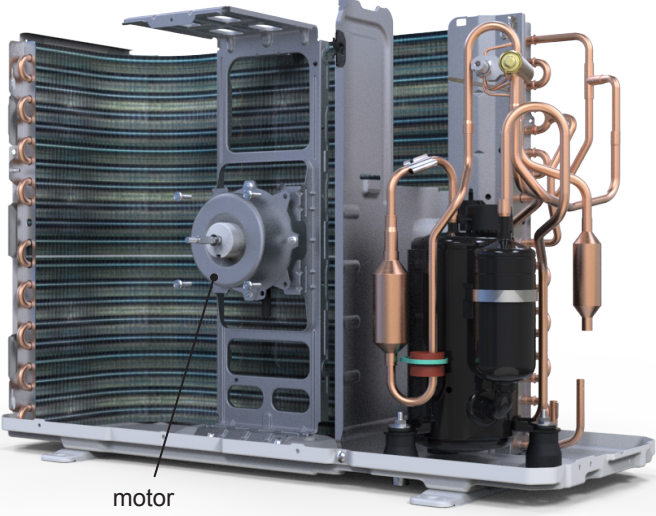
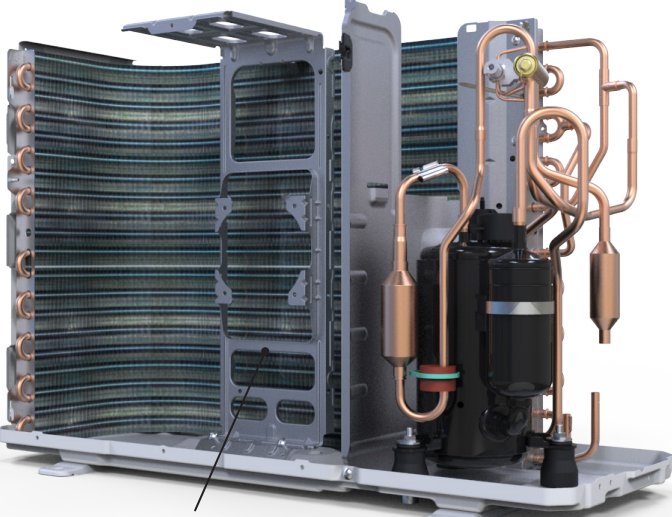
**Caution: discharge the refrigerant completely before removal.**

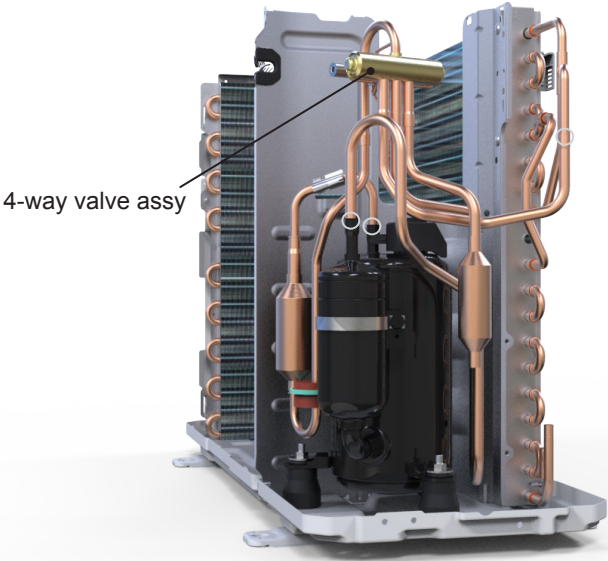
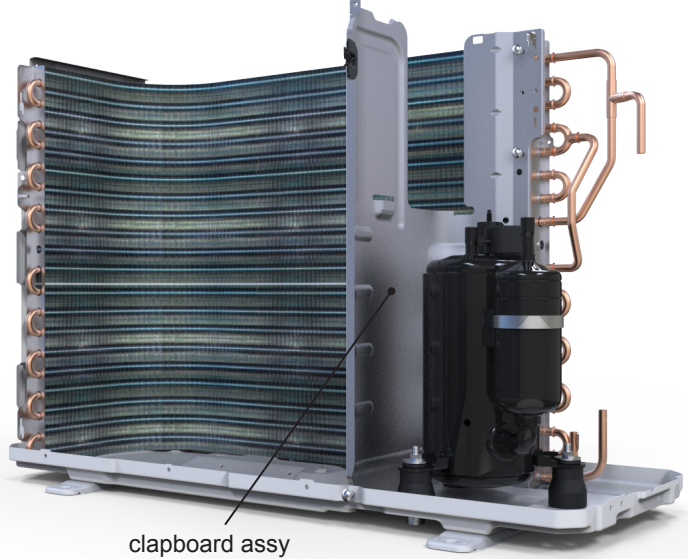
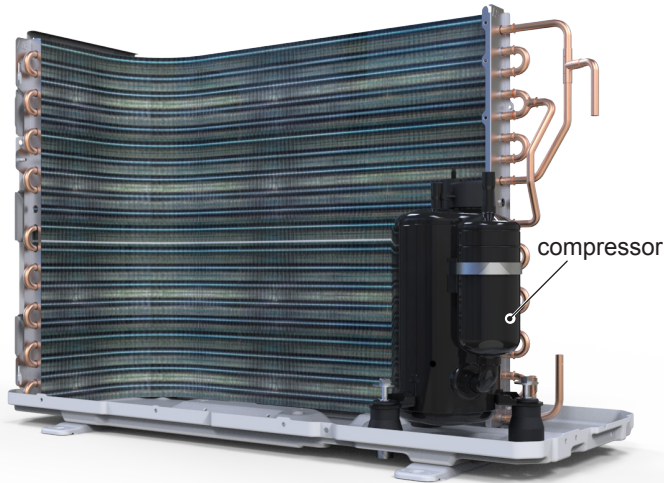
Step	Procedure
<p><b>1. Before disassembly</b></p>	
<p><b>2. Remove top cover</b></p>	<p>Remove the screws fixing top panel and then remove the top panel.</p> 
<p><b>3. Remove big handle</b></p>	<p>Remove the screws fixing big handle, then remove the big handle.</p> 

Step	Procedure
<p><b>4. Remove front panel assy</b></p>	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
<p><b>5. Remove right side plate assy</b></p>	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal board, remove the terminal board, rescrew the screws fixing the right plate, and remove the right side plate assy.</p> 
<p><b>6. Remove valve support</b></p>	<p>Remove the valve support block, remove the screws fixing valve support, remove the screws fixing the liquid valve and gas valve then remove the valve support.</p> 



Step	Procedure
<p><b>7. Remove gas valve and liquid valve</b></p>	<p>Unsolder the welding joint connecting the gas valve and the liquid valve, remove them.</p> <p>Note: Discharge the refrigerant completely before unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>  <p>liquid valve welding joint gas valve</p>
<p><b>8. Remove Capillary Sub-assy</b></p>	<p>Unsolder the welding joint connecting the capillary sub-assy and then remove the capillary sub-assy.</p>  <p>welding joint Capillary Sub-assy</p>
<p><b>9. Remove electric box assy</b></p>	<p>Unplug the terminals, unscrew 1 screw that secures the electrical box assy, raise it to the top right and remove the electrical box.</p>  <p>Electric Box Assy</p>

Step	Procedure
<p><b>10. Remove axial flow fan</b></p>	<p>Remove the nut on the fan and then remove the axial flow fan.</p> 
<p><b>11. Remove motor</b></p>	<p>Remove the screws fixing the motor and then remove the motor.</p> 
<p><b>12. Remove motor support</b></p>	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> 

Step	Procedure
<p><b>13. Remove 4-way valve assy</b></p>	<p>Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p> 
<p><b>14. Remove clapboard assy</b></p>	<p>Remove the 3 screws fixing the clapboard assy and then remove the clapboard assy.</p> 
<p><b>15. Remove compressor</b></p>	<p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p> 



# Appendix

## Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree:  $T_f = T_c \times 1.8 + 32$

### Set temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
61	60.8	16	69/70	69.8	21	78/79	78.8	26
62/63	62.6	17	71/72	71.6	22	80/81	80.6	27
64/65	64.4	18	73/74	73.4	23	82/83	82.4	28
66/67	66.2	19	75/76	75.2	24	84/85	84.2	29
68	68	20	77	77	25	86	86	30

### Ambient temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
32/33	32	0	55/56	55.4	13	79/80	78.8	26
34/35	33.8	1	57/58	57.2	14	81	80.6	27
36	35.6	2	59/60	59	15	82/83	82.4	28
37/38	37.4	3	61/62	60.8	16	84/85	84.2	29
39/40	39.2	4	63	62.6	17	86/87	86	30
41/42	41	5	64/65	64.4	18	88/89	87.8	31
43/44	42.8	6	66/67	66.2	19	90	89.6	32
45	44.6	7	68/69	68	20	91/92	91.4	33
46/47	46.4	8	70/71	69.8	21	93/94	93.2	34
48/49	48.2	9	72	71.6	22	95/96	95	35
50/51	50	10	73/74	73.4	23	97/98	96.8	36
52/53	51.8	11	75/76	75.2	24	99	98.6	37
54	53.6	12	77/78	77	25			

## Appendix 2: Configuration of Connection Pipe

1. Standard length of connection pipe (More details please refer to the specifications.)

2. Min length of connection pipe for the unit with standard connection pipe of 5m, there is no limitation for the min length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.

3. Max. length of connection pipe and max. high difference. (More details please refer to the specifications.)

4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe

- After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.
- The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):
- Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.
- Additional refrigerant charging amount = prolonged length of liquid pipe X additional refrigerant charging amount per meter

Additional refrigerant charging amount for R32

Diameter of connection pipe		Indoor unit throttle	Outdoor unit throttle	
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only(g/m)	Cooling and heating(g/m)
1/4"	3/8" or 1/2"	16	12	16
1/4" or 3/8"	5/8" or 3/4"	40	12	40
1/2"	3/4" or 7/8"	80	24	96
5/8"	1" or 1 1/4"	136	48	96
3/4"	/	200	200	200
7/8"	/	280	280	280

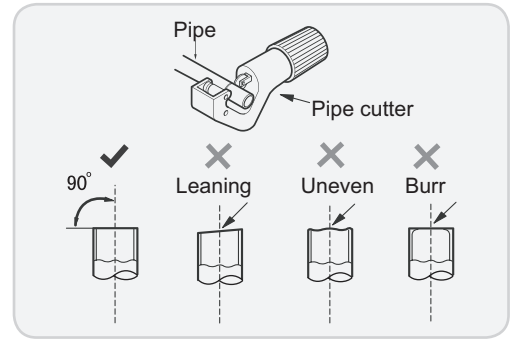
## Appendix 3: Pipe Expanding Method

### ⚠ Note:

Improper pipe expanding is the main cause of refrigerant leakage. Please expand the pipe according to the following steps:

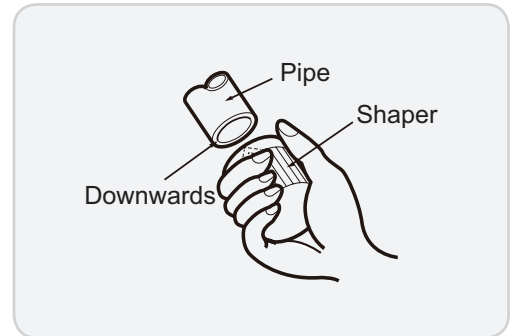
#### A: Cut the pipe

- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



#### B: Remove the burrs

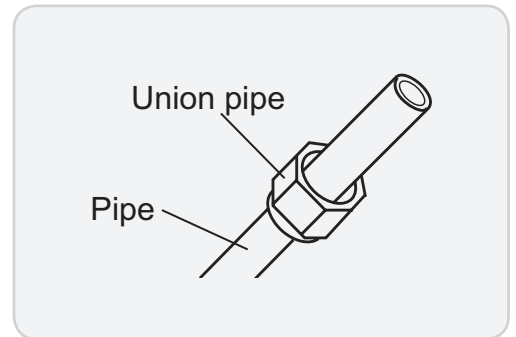
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



#### C: Put on suitable insulating pipe.

#### D: Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



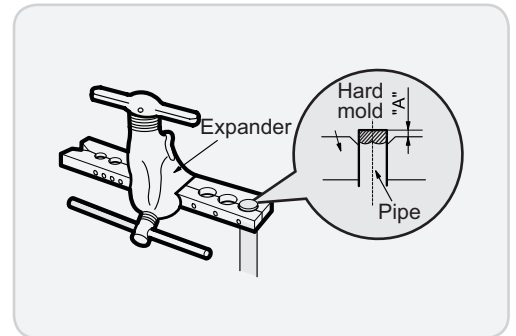
#### E: Expand the port

- Expand the port with expander.

### ⚠ Note:

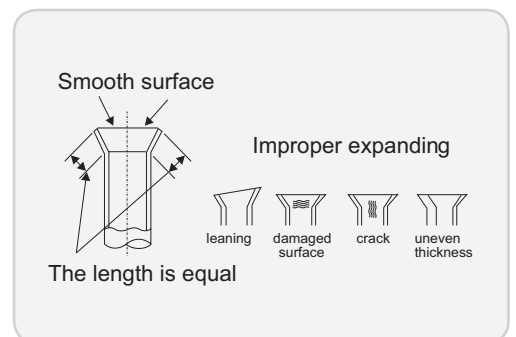
- "A" is different according to the diameter, please refer to the sheet below:

Outer diameter(mm)	A(mm)	
	Max	Min
Φ6 - 6.35 (1/4")	1.3	0.7
Φ9 - Φ9.52 (3/8")	1.6	1.0
Φ12 - 12.70 (1/2")	1.8	1.0
Φ16 - 15.88 (5/8")	2.4	2.2



#### F: Inspection

- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.



## Appendix 4: List of Resistance for Temperature Sensor

### Resistance Table of Ambient Temperature Sensor for Indoor and Outdoor Units(15K)

Temp(°C)	Resistance(kΩ)
-19	138.10
-18	128.60
-16	115.00
-14	102.90
-12	92.22
-10	82.75
-8	74.35
-6	66.88
-4	60.23
-2	54.31

Temp(°C)	Resistance(kΩ)
0	49.02
2	44.31
4	40.09
6	36.32
8	32.94
10	29.90
12	27.18
14	24.73
16	22.53
18	20.54

Temp(°C)	Resistance(kΩ)
20	18.75
22	17.14
24	15.68
26	14.36
28	13.16
30	12.07
32	11.09
34	10.20
36	9.38
38	8.64

Temp(°C)	Resistance(kΩ)
40	7.97
42	7.35
44	6.79
46	6.28
48	5.81
50	5.38
52	4.99
54	4.63
56	4.29
58	3.99

### Resistance Table of Tube Temperature Sensors for Indoor and Outdoor (20K)

Temp(°C)	Resistance(kΩ)
-19	181.40
-15	145.00
-10	110.30
-5	84.61
0	65.37
5	50.87
10	39.87
15	31.47

Temp(°C)	Resistance(kΩ)
20	25.01
25	20.00
30	16.10
35	13.04
40	10.62
45	8.71
50	7.17
55	5.94

Temp(°C)	Resistance(kΩ)
60	4.95
65	4.14
70	3.48
75	2.94
80	2.50
85	2.13
90	1.82
95	1.56

Temp(°C)	Resistance(kΩ)
100	1.35
105	1.16
110	1.01
115	0.88
120	0.77
125	0.67
130	0.59
135	0.52

### Resistance Table of Discharge Temperature Sensor for Outdoor(50K)

Temp(°C)	Resistance(kΩ)
-30	911.400
-25	660.8
-20	486.5
-15	362.9
-10	274
-5	209
0	161
5	125.1

Temp(°C)	Resistance(kΩ)
10	98
15	77.35
20	61.48
25	49.19
30	39.61
35	32.09
40	26.15
45	21.43

Temp(°C)	Resistance(kΩ)
50	17.65
55	14.62
60	12.17
65	10.18
70	8.555
75	7.224
80	6.129
85	5.222

Temp(°C)	Resistance(kΩ)
90	4.469
95	3.841
100	3.315
105	2.872
110	2.498
115	2.182
120	1.912
125	1.682

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