



PULAR INVERTER SERIES_R32

Service Manual

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI



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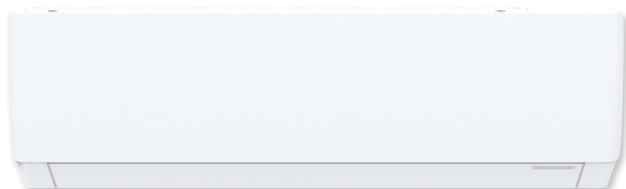
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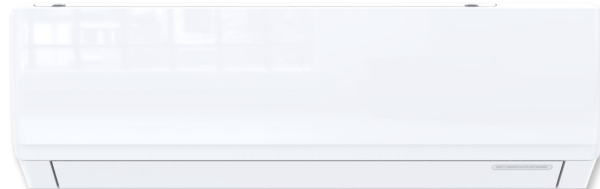
1. Summary

Indoor Unit:

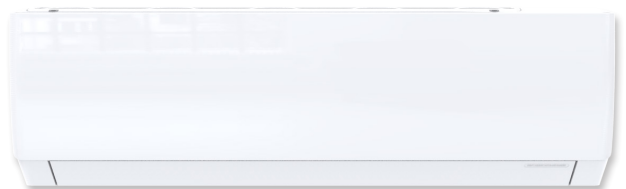
A1 panel



A2 panel



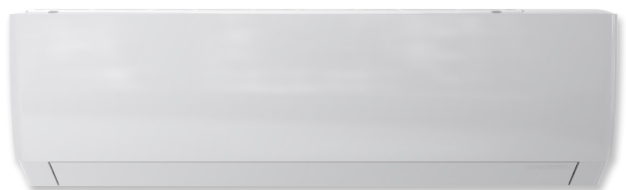
A4 panel (White)



A4 panel (Black)

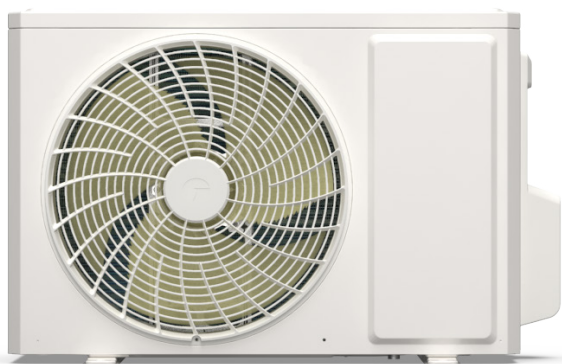


A4 panel (Sliver)



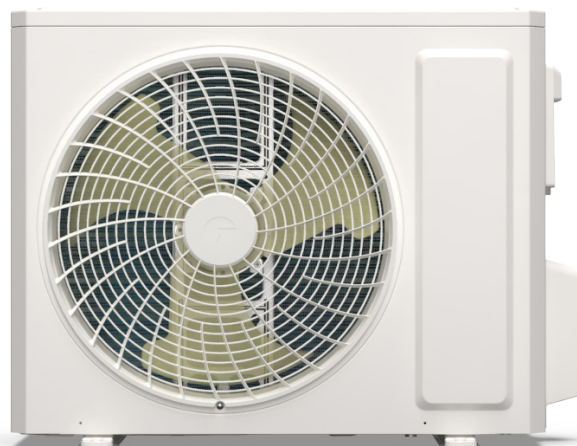
Outdoor Unit:

GWH07AGA-K6DNA1A/O



GWH09AGBXB-K6DNA1A/O
GWH09AFC-K6DNA2F/O
GWH09AGBXB-K6DNA1E/O
GWH12ATCXB-K6DNA4G/O
GWH18AGDXB-K6DNA1Z/O
GWH09AGCXB-K6DNA1H/O

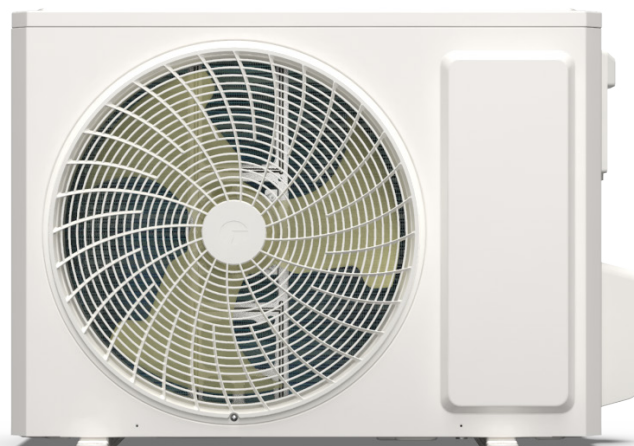
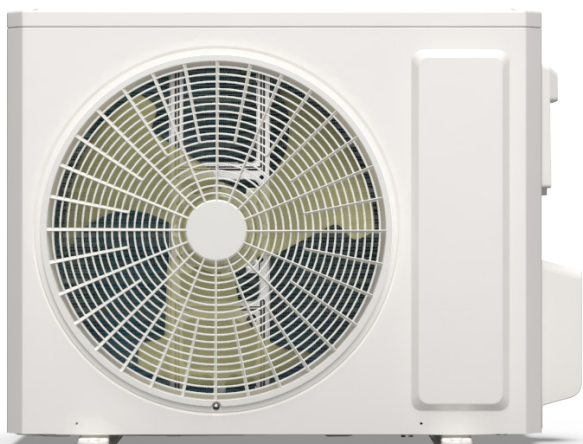
GWH09AGAXB-K6DNA1B/O
GWH12AFC-K6DNA2F/O
GWH09ACCBXB-K6DNA1G/O
GWH18AGD-K6DNA1D/O
GWH12AWBXB-K6DNA3F/O



GWH09AWAXB-K6DNA1C/O
GWH12AGBXB-K6DNA1A/O
GWH12AGCXB-K6DNA1A/O

GWH12AGBXB-K6DNA1Z/O
GWH12AGBXB-K6DNA4C/O

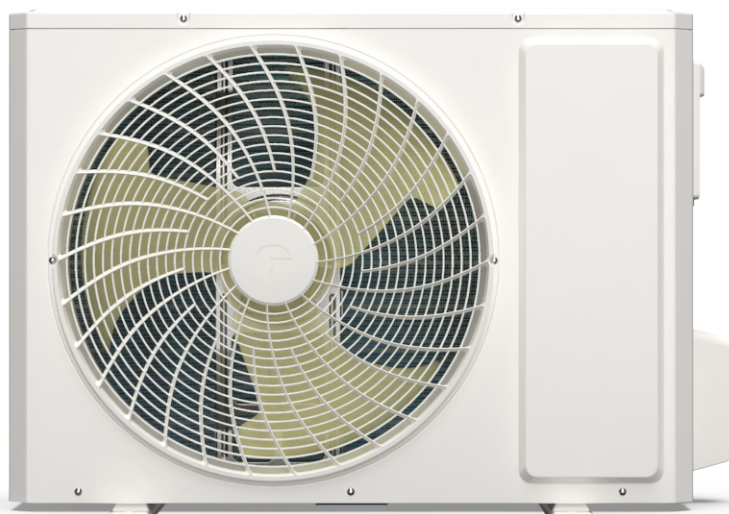
GWH18AGD-K6DNA1E/O
GWH18AGDXD-K6DNA1Z/O
GWH12AWCXD-K6DNA1D/O



GWH24AGD-K6DNA1C/O

GWH24AGDXE-K6DNA1Z/O

GWH24AFE-K6DNA2I/O



Remote Controller:



YAP1F7(WiFi)



YAY1F

Model list:

No.	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1	GWH07AGA-K6DNA1A	CB385001103	GWH07AGA-K6DNA1A/I	CB385N01103	GWH07AGA-K6DNA1A/O	CB385W01107	YAP1F7 (WiFi)
2		CB385001101		CB385N01101		CB385W01100	
3	GWH07AGA-K6DNA2A	CB543011300	GWH07AGA-K6DNA2A/I	CB543N11300			
4	GWH07AGAXA-K6DNA4A	CB558009900	GWH07AGAXA-K6DNA4A/I	CB558N09900	GWH09AGAXB-K6DNA1B/O	CB385W09900	
5	GWH09AGAXB-K6DNA1B	CB385009900	GWH09AGAXB-K6DNA1B/I	CB385N09900			
6		CB385009901		CB385N09901			
7		CB385009902		CB385N09902			
8	GWH09AGAXB-K6DNA2B	CB543007800	GWH09AGAXB-K6DNA2B/I	CB543N07800	GWH09AWAXB-K6DNA1C/O	CB603W05100	
9	GWH09AGAXB-K6DNA4B	CB558010000	GWH09AGAXB-K6DNA4B/I	CB558N10000			
10	GWH09AGAXB-K6DNA1C	CB385022400	GWH09AGAXB-K6DNA1C/I	CB385N22400			
11		CB385022401		CB385N22401			
12		CB385022402		CB385N22402			
13	GWH09AGBXB-K6DNA1A	CB385017100	GWH09AGBXB-K6DNA1A/I	CB385N17100	GWH09AGBXB-K6DNA1A/O	CB385W17100	
14		CB385017101		CB385N17101			
15	GWH09AGCXB-K6DNA4F	CB558009801	GWH09AGCXB-K6DNA4F/I	CB558N09800	GWH09AFC-K6DNA2F/O	CB363W02901	
16		CB558009802		CB558N09802			
17		CB558009803		CB558N09803			
18	GWH09AGCXB-K6DNA1G	CB385021000	GWH09AGCXB-K6DNA1G/I	CB385N21000	GWH09ACCXB-K6DNA1G/O	CB497W26500	
19		CB385021001				CB497W26501	
20	GWH09AGCXB-K6DNA2G	CB543009101	GWH09AGCXB-K6DNA2G/I	CB543N09100	GWH09AGCXB-K6DNA1H/O	CB385W22700	
21	GWH09AGCXB-K6DNA1H	CB385022700	GWH09AGCXB-K6DNA1H/I	CB385N22700			
22	GWH09AGCXB-K6DNA2H	CB543011600	GWH09AGCXB-K6DNA2H/I	CB543N11600			
23	GWH09AGCXB-K6DNA4H	CB558016100	GWH09AGCXB-K6DNA4H/I	CB558N16100			
24	GWH12AGBXB-K6DNA1A	CB385017903	GWH12AGBXB-K6DNA1A/I	CB385N17903	GWH12AGBXB-K6DNA1A/O	CB385W17903	
25		CB385017900		CB385N17900		CB385W17900	
26		CB385017901		CB385N17901			
27		CB385017902		CB385N17902			
28	GWH12AGBXB-K6DNA2A	CB543007700	GWH12AGBXB-K6DNA2A/I	CB543N07700	GWH09AGBXB-K6DNA1E/O	CB385W21200	
29	GWH12AGBXB-K6DNA4A	CB558009500	GWH12AGBXB-K6DNA4A/I	CB558N09500			
30	GWH09AGBXB-K6DNA1E	CB385021200	GWH09AGBXB-K6DNA1E/I	CB385N21200	GWH12AGBXB-K6DNA4C/O	CB558W02600	
31	GWH12AGBXB-K6DNA2C	CB543005400	GWH12AGBXB-K6DNA2C/I	CB543N05400			
32		CB543005401		CB543N05401			
33	GWH12AGBXB-K6DNA4C	CB558002601	GWH12AGBXB-K6DNA4C/I	CB558N02601	GWH12AGBXB-K6DNA1Z/O	CB385W20500	
34	GWH12AGBXB-K6DNA1Z	CB385020500	GWH12AGBXB-K6DNA1Z/I	CB385N20500			
35	GWH12AGCXB-K6DNA1A	CB385018000	GWH12AGCXB-K6DNA1A/I	CB385N18000	GWH12AGCXB-K6DNA1A/O	CB385W18000	
36		CB385018001		CB385N18001			
37	GWH12AGCXB-K6DNA1G	CB385021100	GWH12AGCXB-K6DNA1G/I	CB385N21100	GWH12ATCXB-K6DNA4G/O	CB595W06700	
38	GWH12AGCXB-K6DNA2G	CB543009200	GWH12AGCXB-K6DNA2G/I	CB543N09200			
39	GWH12AGCXB-K6DNA4G	CB558016300	GWH12AGCXB-K6DNA4G/I	CB558N16300	GWH12AWBXB-K6DNA3F/O	CB617W01300	
40	GWH12AGBXB-K6DNA1F	CB385022300	GWH12AGBXB-K6DNA1F/I	CB385N22300			
41		CB385022301		CB385N22301			
42		CB385022302		CB385N22302			
43	GWH12AGBXB-K6DNA4F	CB558016000	GWH12AGBXB-K6DNA4F/I	CB558N16000	GWH12AFC-K6DNA2F/O	CB363W03601	
44	GWH12AGC-K6DNA1F	CB385009306	GWH12AGC-K6DNA1F/I	CB385N09306			
45	GWH12AGC-K6DNA4F	CB558002401	GWH12AGC-K6DNA4F/I	CB558N02401			CB363W03600
46		CB558002402		CB558N02402			
47		CB558002403		CB558N02403			
48		CB558002404		CB558N02400	CB363W03605		
49	GWH12AGCXD-K6DNA1D	CB385023700	GWH12AGCXD-K6DNA1D/I	CB385N23700	GWH12AWCXD-K6DNA1D/O	CB603W10700	

50	GWH18AGDXB-K6DNA1Z	CB385020600	GWH18AGDXB-K6DNA1Z/I	CB385N20600	GWH18AGDXB-K6DNA1Z/O	CB385W20600	YAP1F7 (WiFi)
51		CB385020601		CB385N20601			
52	GWH18AGDXB-K6DNA2Z	CB543011400	GWH18AGDXB-K6DNA2Z/I	CB543N11400	GWH18AGD-K6DNA1D/O	CB385W08300	
53	GWH18AGDXB-K6DNA2D	CB543004701	GWH18AGDXB-K6DNA2D/I	CB543N04701			
54		CB543004702		CB543N04702			
55	GWH18AGD-K6DNA4D	CB558000901	GWH18AGD-K6DNA4D/I	CB558N00901			
56	GWH18AGD-K6DNA1D	CB385008303	GWH18AGD-K6DNA1D/I	CB385N08303	GWH18AGD-K6DNA1E/O	CB385W09100	
57	GWH18AGD-K6DNA1E	CB385009102	GWH18AGD-K6DNA1E/I	CB385N09102		GWH18AGD-K6DNA1E/O	
58	GWH18AGDXD-K6DNA4E	CB558009601	GWH18AGDXD-K6DNA4E/I	CB558N09600			
59		CB558009602		CB558N09602			
60		CB558009603		CB558N09603	GWH18AGDXD-K6DNA1Z/O	CB385W22600	
61	GWH18AGDXD-K6DNA1Z	CB385022600	GWH18AGDXD-K6DNA1Z/I	CB385N22600	GWH24AGDXE-K6DNA2C/I	CB385W08600	
62	GWH18AGDXD-K6DNA2Z	CB543011500	GWH18AGDXD-K6DNA2Z/I	CB543N11500			
63	GWH18AGDXD-K6DNA4Z	CB558016200	GWH18AGDXD-K6DNA4Z/I	CB558N16200	GWH24AGDXE-K6DNA1Z/O	CB385W20700	
64	GWH24AGDXE-K6DNA2C	CB543004800	GWH24AGDXE-K6DNA2C/I	CB543N04800			
65		CB543004801		CB543N04801			
66	GWH24AGD-K6DNA4C	CB558001001	GWH24AGD-K6DNA4C/I	CB558N01001	GWH24AGE-K6DNA1A/I	CB363W04100	
67	GWH24AGDXE-K6DNA1Z	CB385020700	GWH24AGDXE-K6DNA1Z/I	CB385N20700			
68		CB385020701		CB385N20701			
69	GWH24AGE-K6DNA1A	CB385007504	GWH24AGE-K6DNA1A/I	CB385N07504	GWH24AFE-K6DNA2I/O	CB363W04101	
70	GWH24AGEXF-K6DNA4A	CB558009702	GWH24AGEXF-K6DNA4A/I	CB558N09702			
71		CB558009703		CB558N09700			
72		CB558009704		CB558N09701			
73		CB558009705		CB558N09702			

2. Specifications

2.1 Specification Sheet

Model		--	GWH07AGA-K6DNA1A	GWH07AGA-K6DNA2A GWH07AGAXA-K6DNA4A
Product Code		--	CB385001101	CB543011300 CB558009900
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 ³ /h	500/470/450/420/310/290/250	
Dehumidifying Volume		L/h	0.6	
EER		W/W	3.73	
COP		W/W	4.07	
SEER		--	6.6	
SCOP(Average/Warmer/Colder)		--	4.0/4.8/-	
Application Area		m ²	10-16	
Indoor Unit	Model	--	GWH07AGA-K6DNA1A/I	GWH07AGA-K6DNA2A/I GWH07AGAXA-K6DNA4A/I
	Product Code	--	CB385N01101	CB543N11300 CB558N09900
	Fan Type	--	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ93×505	
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750	
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800	
	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	509×22.8×266.7	
	Swing Motor Model	--	MP24AK/MP24BA	MP24AK/MP24BA/MP24HF
	Swing Motor Power Output	W	1.5/1.5	1.5/1.5/1.5
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/33/29/25/21 Heating: 38/36/33/32/29/25/23	
	Sound Power Level	dB (A)	Cooling: 55/49/46/45/41/37/33 Heating: 55/49/46/45/42/38/36	
	Dimension (WXHXD)	mm	704X260X185	
	Dimension of Carton Box (LXWXH)	mm	748X316X247	
	Dimension of Package (LXWXH)	mm	753X332X258	
	Net Weight	kg	7.5	
	Gross Weight	kg	9	

Outdoor Unit	Outdoor Unit Model	--	GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code	--	CB385W01100
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	--	QXF-N075zC170
	Compressor Oil	--	FW68DA
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3
	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	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	950
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1400
	Fan Type	--	Axial-flow
	Fan Diameter	mm	Φ350
	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	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X525
	Net Weight	kg	21
	Gross Weight	kg	23
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.45
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		--	GWH07AGA-K6DNA1A
Product Code		--	CB385001103
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 ³ /h	500/470/450/420/310/290/250
Dehumidifying Volume		L/h	0.60
EER		W/W	3.73
COP		W/W	4.07
SEER		--	6.6
SCOP(Average/Warmer/Colder)		--	4.0/4.8/-
Application Area		m ²	10-16
Indoor Unit	Model	--	GWH07AGA-K6DNA1A/I
	Product Code	--	CB385N01103
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×505
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800
	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	509×22.8×266.7
	Swing Motor Model	--	MP24AK MP24BA MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:39/36/34/33/29/25/21 Heating:38/36/33/32/29/25/23
	Sound Power Level	dB (A)	Cooling:55/49/46/45/41/37/33 Heating:55/49/46/45/42/38/36
	Dimension (WXHDX)	mm	704X260X185
	Dimension of Carton Box (LXWXH)	mm	773X327X266
	Dimension of Package (LXWXH)	mm	776X330X281
	Net Weight	kg	7.5
	Gross Weight	kg	10.5

Outdoor Unit	Outdoor Unit Model	--	GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code	--	CB385W01107
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model	--	QXF-N075zC170
	Compressor Oil	--	FW68DA
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3
	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	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	950
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1400
	Fan Type	--	Axial-flow
	Fan Diameter	mm	Φ350
	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	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X525
	Net Weight	kg	21
	Gross Weight	kg	25
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.45
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		--	GWH09AGAXB-K6DNA1B GWH09AGAXB-K6DNA2B GWH09AGAXB-K6DNA4B	GWH09AGAXB-K6DNA1B
Product Code		--	CB385009900/CB385009902 CB543007800 CB558010000	CB385009901
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	680	
Heating Power Input		W	730	
Cooling Current Input		A	3.1	
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 ³ /h	500/470/430/390/320/270/250	
Dehumidifying Volume		L/h	0.6	
EER		W/W	3.68	
COP		W/W	3.84	
SEER		--	6.6	
SCOP(Average/Warmer/Colder)		--	4.1/5.1/-	
Application Area		m ²	10-16	
Indoor Unit	Model	--	GWH09AGAXB-K6DNA1B/I GWH09AGAXB-K6DNA2B/I GWH09AGAXB-K6DNA4B/I	GWH09AGAXB-K6DNA1B/I
	Product Code	--	CB385N09900/CB385N09902 CB543N07800 CB558N10000	CB385N09901
	Fan Type	--	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ93×505	
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750	
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800	
	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	509×22.8×266.7	
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF	MP24AK/MP24BA
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 38/36/34/32/28/25/21 Heating: 38/36/34/32/29/25/23	
	Sound Power Level	dB (A)	Cooling: 55/48/46/44/40/37/33 Heating: 55/48/46/44/41/37/35	
	Dimension (WXHDXD)	mm	704X260X185	
	Dimension of Carton Box (LXWXH)	mm	748X316X247	
	Dimension of Package (LXWXH)	mm	753X332X258	
	Net Weight	kg	7.5	
	Gross Weight	kg	9	

Outdoor Unit	Outdoor Unit Model	--	GWH09AGAXB-K6DNA1B/O
	Outdoor Unit Product Code	--	CB385W09900
	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
	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	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	--	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.48
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		--	GWH09AGAXB-K6DNA1C	
Product Code		--	CB385022400 CB385022402	CB385022401
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	2500	2500
Heating Capacity		W	2800	2800
Cooling Power Input		W	660	660
Heating Power Input		W	700	700
Cooling Current Input		A	3.1	3.1
Heating Current Input		A	3.2	3.2
Rated Input		W	1500	1500
Rated Cooling Current		A	6	6
Rated Heating Current		A	7.5	7.5
Air Flow Volume		m ³ /h	500/470/430/390/320/270/250	500/470/430/390/320/270/250
Dehumidifying Volume		L/h	0.60	0.60
EER		W/W	3.79	3.79
COP		W/W	4	4
SEER		--	6.8	6.8
SCOP(Average/Warmer/Colder)		--	4.1/5.1/-	4.1/5.1/-
Application Area		m ²	10-16	10-16
Indoor Unit	Model	--	GWH09AGAXB-K6DNA1C/I	
	Product Code	--	CB385N22400 CB385N22402	CB385N22401
	Fan Type	--	Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×505	Φ93×505
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750	1300/1200/1120/1050/920/800/750
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800	1300/1200/1120/1050/950/850/800
	Fan Motor Power Output	W	20	20
	Fan Motor RLA	A	0.22	0.22
	Fan Motor Capacitor	μF	1	1
	Evaporator Form	--	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5	Φ5
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	509×22.8×266.7	509×22.8×266.7
	Swing Motor Model	--	MP24HF/MP24BA/MP24AK	MP24BA/MP24AK
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/32/28/25/22 Heating:38/36/34/32/29/25/23	Cooling:38/36/34/32/28/25/22 Heating:38/36/34/32/29/25/23
	Sound Power Level	dB (A)	Cooling:55/48/46/44/40/37/34 Heating:55/48/46/44/41/37/35	Cooling:55/48/46/44/40/37/34 Heating:55/48/46/44/41/37/35
	Dimension (WXHDXD)	mm	704X260X185	704X260X185
	Dimension of Carton Box (LXWXH)	mm	748X316X247	748X316X247
	Dimension of Package (LXWXH)	mm	753X332X258	753X332X258
	Net Weight	kg	7.5	7.5
	Gross Weight	kg	9	9

Outdoor Unit	Outdoor Unit Model	--	GWH09AWAXB-K6DNA1C/O
	Outdoor Unit Product Code	--	CB603W05100
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model	--	QXF-N082zC170
	Compressor Oil	--	FW68DA or RA68EH equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.4
	Compressor Power Input	W	630
	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	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	/
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	23.5
	Gross Weight	kg	26
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.48
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		--	GWH09AGBXB-K6DNA1A
Product Code		--	CB385017100/CB385017101
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	725
Heating Power Input		W	685
Cooling Current Input		A	3.45
Heating Current Input		A	3.19
Rated Input		W	1500
Rated Cooling Current		A	6
Rated Heating Current		A	7.5
Air Flow Volume		m ³ /h	550/520/480/400/340/310/280
Dehumidifying Volume		L/h	0.8
EER		W/W	3.72
COP		W/W	4.09
SEER		--	6.8
SCOP(Average/Warmer/Colder)		--	4.2/5.3/-
Application Area		m ²	10-16
Indoor Unit	Model	--	GWH09AGBXB-K6DNA1A/I
	Product Code	--	CB385N17100/CB385N17101
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×580
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800
	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	584×22.8×266.7
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling: 40/37/35/33/29/26/21 Heating: 40/37/35/33/30/26/24
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/41/37/34 Heating: 55/49/47/45/42/38/35
	Dimension (WXHXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

Outdoor Unit	Outdoor Unit Model	--	GWH09AGBXB-K6DNA1A/O
	Outdoor Unit Product Code	--	CB385W17100
	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
	Compressor RLA	A	2.56
	Compressor Power Input	W	757
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	51
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	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		--	GWH09AGBXB-K6DNA1E
Product Code		--	CB385021200
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	725
Heating Power Input		W	685
Cooling Current Input		A	3.45
Heating Current Input		A	3.19
Rated Input		W	1500
Rated Cooling Current		A	6
Rated Heating Current		A	7.5
Air Flow Volume		m ³ /h	550/520/480/400/340/310/280
Dehumidifying Volume		L/h	0.8
EER		W/W	3.72
COP		W/W	4.09
SEER		--	6.8
SCOP(Average/Warmer/Colder)		--	4.2/5.3/-
Application Area		m ²	10-16
Indoor Unit	Model	--	GWH09AGBXB-K6DNA1E/I
	Product Code	--	CB385N21200
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×580
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800
	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	584×22.8×266.7
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:40/37/35/33/29/26/21 Heating:40/37/35/33/30/26/24
	Sound Power Level	dB (A)	Cooling:57/49/47/45/41/37/34 Heating:57/49/47/45/42/38/35
	Dimension (WXHXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

Outdoor Unit	Outdoor Unit Model	--	GWH09AGBXB-K6DNA1E/O
	Outdoor Unit Product Code	--	CB385W21200
	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	757
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	51
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	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		--	GWH09AGCXB-K6DNA4F
Product Code		--	CB558009801/CB558009802/CB558009803
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 ³ /h	610/570/540/470/440/420/390
Dehumidifying Volume		L/h	0.8
EER		W/W	3.89
COP		W/W	4.29
SEER		--	7.5
SCOP(Average/Warmer/Colder)		--	4.2/5.3/3.4
Application Area		m ²	12-18
Indoor Unit	Model	--	GWH09AGCXB-K6DNA4F/I
	Product Code	--	CB558N09800/CB558N09802/CB558N09803
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×633.5
	Cooling Speed	r/min	1200/1100/1050/950/900/850/750
	Heating Speed	r/min	1150/1100/1050/1000/950/900/800
	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	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	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: 54/48/46/43/42/39/37 Heating: 56/49/47/46/44/41/40
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	--	GWH09AFC-K6DNA2F/O
	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
	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	666×19.05×527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	50
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	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		-	GWH09AGCXB-K6DNA1G
Product Code		-	CB385021000
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	670
Heating Power Input		W	674
Cooling Current Input		A	3.5
Heating Current Input		A	3.5
Rated Input		W	1400
Rated Cooling Current		A	6
Rated Heating Current		A	6.5
Air Flow Volume		m ³ /h	610/530/500/450/350/290/230/180
Dehumidifying Volume		L/h	0.8
EER		W/W	4.03
COP		W/W	4.45
SEER		-	8.5
SCOP(Average/Warmer/Colder)		-	4.6/5.7/3.5
Application Area		m ²	12-18
Indoor Unit	Indoor Unit Model	-	GWH09AGCXB-K6DNA1G/I
	Indoor Unit Product Code	-	CB385N21000
	Fan Type	-	Cross-flow
	Fan Diameter Length (DXL)	mm	Φ98×633.5
	Cooling Speed	r/min	1200/1100/1050/950/800/700/650/500
	Heating Speed	r/min	1200/1100/1040/950/900/880/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	A	0.2
	Fan Motor Capacitor	μF	/
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635×22.8×306.3
	Swing Motor Model	-	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:39/37/34/31/26/23/22/18 Heating:39/37/34/31/30/29/28
	Sound Power Level	dB (A)	Cooling:57/51/48/45/40/37/36/32 Heating:57/51/48/45/44/43/42
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	-	GWH09ACCXB-K6DNA1G/O
	Outdoor Unit Product Code	-	CB497W26500
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model	-	QXF-N082zC170
	Compressor Oil	-	FW68DA or RA68EH equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.4
	Compressor Power Input	W	630
	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
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /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	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension (WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package (LXWXH)	mm	794X376X615
	Net Weight	kg	23.5
	Gross Weight	kg	26
	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		--	GWH09AGCXB-K6DNA1G GWH09AGCXB-K6DNA2G
Product Code		--	CB385021001 CB543009101
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	670
Heating Power Input		W	674
Cooling Current Input		A	3.5
Heating Current Input		A	3.5
Rated Input		W	1400
Rated Cooling Current		A	6
Rated Heating Current		A	6.5
Air Flow Volume		m ³ /h	580/530/500/450/350/290/230/180
Dehumidifying Volume		L/h	0.8
EER		W/W	4.03
COP		W/W	4.45
SEER		--	8.5
SCOP(Average/Warmer/Colder)		--	4.6/5.7/-
Application Area		m ²	12-18
Indoor Unit	Model	--	GWH09AGCXB-K6DNA1G/I GWH09AGCXB-K6DNA2G/I
	Product Code	--	CB385N21000 CB543N09100
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1200/1100/1050/950/800/700/650/500
	Heating Speed	r/min	1200/1100/1040/950/900/880/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	A	0.22
	Fan Motor Capacitor	μF	/
	Evaporator Form	--	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/26/23/22/18 Heating:38/36/34/30/28/27/26
	Sound Power Level	dB (A)	Cooling:54/50/48/45/40/37/36/32 Heating:54/50/48/44/42/41/40
	Dimension (WXHDX)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	--	GWH09ACCXB-K6DNA1G/O
	Outdoor Unit Product Code	--	CB497W26501
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model	--	QXF-N082zC170
	Compressor Oil	--	RB68GX or equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.4
	Compressor Power Input	W	630
	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
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	23.5
	Gross Weight	kg	26
	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		--	GWH09AGCXB-K6DNA1H GWH09AGCXB-K6DNA2H GWH09AGCXB-K6DNA4H
Product Code		--	CB385022700 CB543011600 CB558016100
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	670
Heating Power Input		W	674
Cooling Current Input		A	3.5
Heating Current Input		A	3.5
Rated Input		W	1400
Rated Cooling Current		A	6
Rated Heating Current		A	6.5
Air Flow Volume		m ³ /h	580/530/500/450/350/290/230/180
Dehumidifying Volume		L/h	0.8
EER		W/W	4.03
COP		W/W	4.45
SEER		--	8.5
SCOP(Average/Warmer/Colder)		--	4.6/5.7/-
Application Area		m ²	12-18
Indoor Unit	Model	--	GWH09AGCXB-K6DNA1H/I GWH09AGCXB-K6DNA2H/I GWH09AGCXB-K6DNA4H/I
	Product Code	--	CB385N22700 CB543N11600 CB558N16100
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1200/1100/1050/950/800/700/650/500
	Heating Speed	r/min	1200/1100/1040/950/900/880/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	A	0.22
	Fan Motor Capacitor	μF	/
	Evaporator Form	--	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/26/23/22/18 Heating:38/36/34/30/28/27/26
	Sound Power Level	dB (A)	Cooling:56/50/48/45/40/37/36/32 Heating:56/50/48/44/42/41/40
	Dimension (WXHDX)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	--	GWH09AGCXB-K6DNA1H/O
	Outdoor Unit Product Code	--	CB385W22700
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model	--	QXF-N082zC170
	Compressor Oil	--	RB68GX or equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.4
	Compressor Power Input	W	630
	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
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	23.5
	Gross Weight	kg	26
	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		--	GWH12AGBXB-K6DNA1A GWH12AGBXB-K6DNA2A GWH12AGBXB-K6DNA4A	GWH12AGBXB-K6DNA1A
Product Code		--	CB385017900/CB385017902 CB543007700 CB558009500	CB385017901
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 ³ /h	590/520/480/400/350/320/280	
Dehumidifying Volume		L/h	1.4	
EER		W/W	3.23	
COP		W/W	3.71	
SEER		--	6.1	
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-	
Application Area		m ²	15-22	
Indoor Unit	Model	--	GWH12AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA2A/I GWH12AGBXB-K6DNA4A/I	GWH12AGBXB-K6DNA1A/I
	Product Code	--	CB385N17900/CB385N17902 CB543N07700 CB558N09500	CB385N17901
	Fan Type	--	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ93×580	
	Cooling Speed	r/min	1350/1200/1120/1050 /950/850/750	
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850	
	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	584×22.8×266.7	
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF	MP24AK/MP24BA
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 41/37/35/33/31/28/25	
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/42/38/36 Heating: 53/49/47/45/43/40/37	
	Dimension (WXHXD)	mm	779X260X185	
	Dimension of Carton Box (LXWXH)	mm	823X316X247	
	Dimension of Package (LXWXH)	mm	828X332X258	
	Net Weight	kg	8	
	Gross Weight	kg	9.5	

Outdoor Unit	Outdoor Unit Model	--	GWH12AGBXB-K6DNA1A/O
	Outdoor Unit Product Code	--	CB385W17900
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO.,LTD.
	Compressor Model	--	QXF-N088zC170
	Compressor Oil	--	FW68DA or equivalent
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	--	Axial-flow
	Fan Diameter	mm	400
	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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	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	20
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		--	GWH12AGBXB-K6DNA1A
Product Code		--	CB385017903
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 ³ /h	590/520/480/400/350/320/280
Dehumidifying Volume		L/h	1.40
EER		W/W	3.23
COP		W/W	3.71
SEER		--	6.1
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-
Application Area		m ²	15-22
Indoor Unit	Model	--	GWH12AGBXB-K6DNA1A/I
	Product Code	--	CB385N17903
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×580
	Cooling Speed	r/min	1350/1200/1120/1050 /950/850/750
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850
	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	584×22.8×266.7
	Swing Motor Model	--	MP24AK MP24BA MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:41/37/35/33/30/26/24 Heating:41/37/35/33/31/28/25
	Sound Power Level	dB (A)	Cooling:56/49/47/45/42/38/36 Heating:53/49/47/45/43/40/37
	Dimension (WXHDXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	846X327X266
	Dimension of Package (LXWXH)	mm	849X330X281
	Net Weight	kg	8
	Gross Weight	kg	11

Outdoor Unit	Outdoor Unit Model	--	GWH12AGBXB-K6DNA1A/O
	Outdoor Unit Product Code	--	CB385W17903
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO.,LTD.
	Compressor Model	--	QXF-N088zC170
	Compressor Oil	--	FW68DA or equivalent
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X622
	Net Weight	kg	25
	Gross Weight	kg	30
	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	20
	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		--	GWH12AGBXB-K6DNA4C GWH12AGBXB-K6DNA2C	GWH12AGBXB-K6DNA2C
Product Code		--	CB558002601 CB543005401	CB543005400
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases	--	1	
Power Supply Mode		--	Outdoor	
Cooling Capacity		W	3500	
Heating Capacity		W	3500	
Cooling Power Input		W	1083	
Heating Power Input		W	918	
Cooling Current Input		A	4.97	
Heating Current Input		A	4.22	
Rated Input		W	1550	
Rated Cooling Current		A	6.21	
Rated Heating Current		A	6.88	
Air Flow Volume		m ³ /h	590/520/480/400/350/320/280	
Dehumidifying Volume		L/h	1.4	
EER		W/W	3.23	
COP		W/W	3.81	
SEER		--	/	
SCOP(Average/Warmer/Colder)		--	/	
Application Area		m ²	15-22	
Indoor Unit	Model	--	GWH12AGBXB-K6DNA4C/I GWH12AGBXB-K6DNA2C/I	GWH12AGBXB-K6DNA2C/I
	Product Code	--	CB558N02601 CB543N05401	CB543N05400
	Fan Type	--	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ93×580	
	Cooling Speed	r/min	1350/1200/1120/1050/950/850/750	
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850	
	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	584×22.8×266.7	
	Swing Motor Model	--	MP24HF/MP24BA/MP24AK	MP24BA/MP24AK
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 43/39/37/34/33/30/28	
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/42/38/36 Heating: 53/49/47/44/43/40/38	
	Dimension (WXHXD)	mm	779X260X185	
	Dimension of Carton Box (LXWXH)	mm	823X316X247	
	Dimension of Package (LXWXH)	mm	828X332X258	
	Net Weight	kg	8.5	
	Gross Weight	kg	10	

Outdoor Unit	Outdoor Unit Model	--	GWH12AGBXB-K6DNA4C/O
	Outdoor Unit Product Code	--	CB558W02600
	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	4.4
	Compressor Power Input	W	/
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	677×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	28
	Fan Motor RLA	A	0.35
	Fan Motor Capacitor	μF	2.5
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	52
	Sound Power Level	dB (A)	64
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25.5
	Gross Weight	kg	28
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.39
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		--	GWH12AGBXB-K6DNA1Z
Product Code		--	CB385020500
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 ³ /h	590/520/480/400/350/320/280
Dehumidifying Volume		L/h	1.4
EER		W/W	3.23
COP		W/W	3.71
SEER		--	6.1
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-
Application Area		m ²	15-22
Indoor Unit	Model	--	GWH12AGBXB-K6DNA1Z/I
	Product Code	--	CB385N20500
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×580
	Cooling Speed	r/min	1350/1200/1120/1050/950/850/750
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850
	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	584×22.8×266.7
	Swing Motor Model	--	MP24BA/MP24AK
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 41/37/35/33/31/28/25
	Sound Power Level	dB (A)	Cooling: 57/49/47/45/42/38/36 Heating: 53/49/47/45/43/40/37
	Dimension (WXHXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

Outdoor Unit	Outdoor Unit Model	--	GWH12AGBXB-K6DNA1Z/O
	Outdoor Unit Product Code	--	CB385W20500
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	--	QXF-N088zC170
	Compressor Oil	--	FW68DA or equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.6
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	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	20
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		--	GWH12AGCXB-K6DNA1A
Product Code		--	CB385018000/CB385018001
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	933
Heating Power Input		W	872
Cooling Current Input		A	4.14
Heating Current Input		A	3.87
Rated Input		W	1500
Rated Cooling Current		A	6.5
Rated Heating Current		A	7.5
Air Flow Volume		m ³ /h	680/620/560/490/450/420/390
Dehumidifying Volume		L/h	1.4
EER		W/W	3.43
COP		W/W	3.9
SEER		--	6.5
SCOP(Average/Warmer/Colder)		--	4.1/5.1/-
Application Area		m ²	15-22
Indoor Unit	Model	--	GWH12AGCXB-K6DNA1A/I
	Product Code	--	CB385N18000/CB385N18001
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1300/1150/1100/1000/950/850/750
	Heating Speed	r/min	1250/1100/1050/1000/950/850/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.3
	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	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/31/27/22 Heating: 41/36/34/32/30/27/25
	Sound Power Level	dB (A)	Cooling: 57/50/48/46/43/39/36 Heating: 55/49/47/45/43/40/37
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	10
	Gross Weight	kg	12

Outdoor Unit	Outdoor Unit Model	--	GWH12AGCXB-K6DNA1A/O
	Outdoor Unit Product Code	--	CB385W18000
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model	--	QXF-N088zC170
	Compressor Oil	--	FW68DA or equivalent
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	--	Axial-flow
	Fan Diameter	mm	400
	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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	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	20
	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		--	GWH12AGCXB-K6DNA1G GWH12AGCXB-K6DNA2G GWH12AGCXB-K6DNA4G
Product Code		--	CB385021100 CB543009200 CB558016300
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	842
Heating Power Input		W	895
Cooling Current Input		A	4.1
Heating Current Input		A	4.3
Rated Input		W	1500
Rated Cooling Current		A	6.3
Rated Heating Current		A	7.2
Air Flow Volume		m ³ /h	680/620/560/490/450/420/390/220
Dehumidifying Volume		L/h	1.4
EER		W/W	3.80
COP		W/W	3.80
SEER		--	8.5
SCOP(Average/Warmer/Colder)		--	4.1/5.1/-
Application Area		m ²	15-22
Indoor Unit	Model	--	GWH12AGCXB-K6DNA1G/I GWH12AGCXB-K6DNA2G/I GWH12AGCXB-K6DNA4G/I
	Product Code	--	CB385N21100 CB543N09200 CB558N16300
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/750/500
	Heating Speed	r/min	1350/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Evaporator Form	--	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:42/38/35/32/29/27/24/19 Heating:41/38/35/32/30/27/25
	Sound Power Level	dB (A)	Cooling:60/52/47/44/41/39/36/31 Heating:58/50/47/44/42/39/37
	Dimension (WXHDX)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	--	GWH12ATCXB-K6DNA4G/O
	Outdoor Unit Product Code	--	CB595W06700
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model	--	QXF-A098zC170H(Improvement)
	Compressor Oil	--	RB68GX or equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.2
	Compressor Power Input	W	885
	Compressor Overload Protector	--	/
	Throttling Method	--	Capillary
	Set Temperature Range	°C	Cooling:16~30 Heating:8~30
	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	700×38.1×528
	Fan Motor Speed	rpm	810
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	52
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	27
	Gross Weight	kg	29.5
	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	20
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		--	GWH12AGC-K6DNA4F
Product Code		--	CB558002401/CB558002402/CB558002403
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 ³ /h	680/620/560/490/450/420/390
Dehumidifying Volume		L/h	1.4
EER		W/W	3.65
COP		W/W	4.00
SEER		--	7.1
SCOP(Average/Warmer/Colder)		--	4.1/5.2/3.1
Application Area		m ²	16-24
Indoor Unit	Model	--	GWH12AGC-K6DNA4F/I
	Product Code	--	CB558N02401/CB558N02402/CB558N02403
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1300/1150/1100/1000/950/850/750
	Heating Speed	r/min	1250/1100/1050/1000/950/850/800
	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	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/32/30/27/24 Heating: 40/36/34/32/30/27/24
	Sound Power Level	dB (A)	Cooling: 56/49/47/44/42/39/36 Heating: 51/46/44/42/40/37/34
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	--	GWH12AFC-K6DNA2F/O
	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	4.4
	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	666×19.05×527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	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			GWH12AGC-K6DNA1F
Product Code			CB385009306
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 ³ /h	680/620/560/490/450/420/390
Dehumidifying Volume		L/h	1.4
EER		W/W	3.65
COP		W/W	4.00
SEER			7.1
SCOP(Average/WarmerColder)			4.1/5.2/3.1
Application Area		m ²	16-24
Indoor Unit	Model		GWH12AGC-K6DNA1F/I
	Product Code		CB385N09306
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1300/1150/1100/1000 /950/850/750
	Heating Speed	r/min	1250/1100/1050/1000/950/850/800
	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 (LXD _{XW})	mm	634×22.8×304.8
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:41/37/35/32/30/27/24 Heating:40/36/34/32/30/27/24
	Sound Power Level	dB (A)	Cooling:56/49/47/44/42/39/36 Heating:51/46/44/42/40/37/34
	Dimension (WXH _{XD})	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model		GWH12AFC-K6DNA2F/O
	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	4.4
	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	666×19.05×527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	400
	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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X605
	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		1/4"
	Outer Diameter Gas Pipe		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		--	GWH12AGC-K6DNA4F
Product Code		--	CB558002404
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 ³ /h	680/620/560/490/450/420/390
Dehumidifying Volume		L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER		--	7.1
SCOP(Average/Warmer/Colder)		--	4.1/5.2/3.1
Application Area		m ²	16-24
Indoor Unit	Model	--	GWH12AGC-K6DNA4F/I
	Product Code	--	CB558N02400
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×630
	Cooling Speed	r/min	1300/1150/1100/1000/950/850/750
	Heating Speed	r/min	1250/1100/1050/1000/950/850/800
	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	634×22.8×304.8
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:41/37/35/32/30/27/24 Heating:40/36/34/32/30/27/24
	Sound Power Level	dB (A)	Cooling:56/49/47/44/42/39/36 Heating:51/46/44/42/40/37/34
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	--	GWH12AFC-K6DNA2F/O
	Outdoor Unit Product Code	--	CB363W03605
	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	4.4
	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	666×19.05×527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	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		--	GWH12AGBXB-K6DNA1F GWH12AGBXB-K6DNA4F	GWH12AGBXB-K6DNA1F
Product Code		--	CB385022300/CB385022302 CB558016000	CB385022301
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	3200	3200
Heating Capacity		W	3400	3400
Cooling Power Input		W	991	991
Heating Power Input		W	916	916
Cooling Current Input		A	4.9	4.9
Heating Current Input		A	4.4	4.4
Rated Input		W	1450	1450
Rated Cooling Current		A	6.3	6.3
Rated Heating Current		A	6.7	6.7
Air Flow Volume		m ³ /h	590/520/480/400/350/320/280	590/520/480/400/350/320/280
Dehumidifying Volume		L/h	1.40	1.40
EER		W/W	3.23	3.23
COP		W/W	3.71	3.71
SEER		--	6.5	6.5
SCOP(Average/Warmer/Colder)		--	4.1/5.1/-	4.1/5.1/-
Application Area		m ²	15-22	15-22
Indoor Unit	Model	--	GWH12AGBXB-K6DNA1F/I	GWH12AGBXB-K6DNA1F/I
	Product Code	--	CB385N22300/CB385N22302 CB558N16000	CB385N22301
	Fan Type	--	Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ93×580	Φ93×580
	Cooling Speed	r/min	1350/1200/1120/1050/950/850/750	1350/1200/1120/1050/950/850/750
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850	1350/1200/1120/1050/990/920/850
	Fan Motor Power Output	W	20	20
	Fan Motor RLA	A	0.22	0.22
	Fan Motor Capacitor	μF	1	1
	Evaporator Form	--	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5	Φ5
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7	584×22.8×266.7
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF	MP24AK/MP24BA
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:41/37/35/33/30/26/24 Heating:41/37/35/33/31/28/25	Cooling:41/37/35/33/30/26/24 Heating:41/37/35/33/31/28/25
	Sound Power Level	dB (A)	Cooling:57/49/47/45/42/38/36 Heating:53/49/47/45/43/40/37	Cooling:57/49/47/45/42/38/36 Heating:53/49/47/45/43/40/37
	Dimension (WXHXD)	mm	779X260X185	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258	828X332X258
	Net Weight	kg	8	8
	Gross Weight	kg	9.5	9.5

Outdoor Unit	Outdoor Unit Model	--	GWH12AWBxB-K6DNA3F/O
	Outdoor Unit Product Code	--	CB617W01300
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model	--	QXF-A098zC170H
	Compressor Oil	--	RB68GX or equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.2
	Compressor Power Input	W	862
	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	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	--	Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method	--	/
	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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHxD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.6
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	20
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		-	GWH12AGCXD-K6DNA1D
Product Code		-	CB385023700
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases	-	1
Power Supply Mode		-	Outdoor
Cooling Capacity		W	3500
Heating Capacity		W	3800
Cooling Power Input		W	910
Heating Power Input		W	950
Cooling Current Input		A	4.35
Heating Current Input		A	4.67
Rated Input		W	1750
Rated Cooling Current		A	6.67
Rated Heating Current		A	7.75
Air Flow Volume		m ³ /h	650/540/505/405/380/330/310/260
Dehumidifying Volume		L/h	1.4
EER		W/W	3.85
COP		W/W	4
SEER		-	8.5
SCOP(Average/Warmer/Colder)		-	4.8/5.8/-
Application Area		m ²	16-24
Indoor Unit	Indoor Unit Model	-	GWH12AGCXD-K6DNA1D/I
	Indoor Unit Product Code	-	CB385N23700
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98×633.5
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/750/500
	Heating Speed	r/min	1350/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	A	0.2
	Fan Motor Capacitor	μF	/
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635×22.8×306.3
	Swing Motor Model	-	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:43/39/37/33/31/29/26/18 Heating:43/39/37/35/33/31/30
	Sound Power Level	dB (A)	Cooling:59/54/52/48/46/44/41/33 Heating:59/54/52/50/48/46/45
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

Outdoor Unit	Outdoor Unit Model	-	GWH12AWCXD-K6DNA1D/O
	Outdoor Unit Product Code	-	CB603W10700
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model	-	QXF-M098zE170
	Compressor Oil	-	FW68DA
	Compressor Type	-	Rotary
	Compressor LRA	A	/
	Compressor RLA	A	4
	Compressor Power Input	W	856.6
	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
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	761.5×38.1×528
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.7
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	2200
	Fan Type	-	Cross-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	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension (WXHDX)	mm	802X555X350
	Dimension of Carton Box (LXWXH)	mm	869X395X594
	Dimension of Package (LXWXH)	mm	872X398X620
	Net Weight	kg	27
	Gross Weight	kg	29.5
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.6
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	20
	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		--	GWH18AGDXB-K6DNA1Z	GWH18AGDXB-K6DNA1Z GWH18AGDXB-K6DNA2Z
Product Code		--	CB385020600	CB385020601 CB543011400
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 ³ /h	910/850/780/740/700/650/610	910/850/780/740/700/650/610
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(Average/Warmer/Colder)		--	4.0/5.1/-	4.0/5.1/-
Application Area		m ²	21-31	21-31
Indoor Unit	Model	--	GWH18AGDXB-K6DNA1Z/I	GWH18AGDXB-K6DNA1Z/I GWH18AGDXB-K6DNA2Z/I
	Product Code	--	CB385N20600	CB385N20601 CB543N11400
	Fan Type	--	Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	106×739	106×739
	Cooling Speed	r/min	1230/1050/980/900/850/800/750	1230/1050/980/900/850/800/750
	Heating Speed	r/min	1200/1050/980/900/850/800/750	1200/1050/980/900/850/800/750
	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	Φ5	Φ5
	Evaporator Row-fin Gap	mm	2-1.3	2-1.3
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9	745×22.8×342.9
	Swing Motor Model	--	MP24AK/MP24BA	MP24AK/MP24BA/MP24HF
	Swing Motor Power Output	W	1.5/1.5	1.5/1.5 /1.5
	Fuse Current	A	3.15A	3.15A
	Sound Pressure Level	dB (A)	Cooling:44/39/37/34/32/30/29 Heating:44/40/37/34/32/30/29	Cooling:44/39/37/34/32/30/29 Heating:44/40/37/34/32/30/29
	Sound Power Level	dB (A)	Cooling:59/54/52/49/47/45/44 Heating:59/55/52/49/47/45/44	Cooling:59/54/52/49/47/45/44 Heating:59/55/52/49/47/45/44
	Dimension (WXHXD)	mm	982X311X221	982X311X221
	Dimension of Carton Box (LXWXH)	mm	1039X377X287	1039X377X287
	Dimension of Package (LXWXH)	mm	1044X385X297	1044X385X297
	Net Weight	kg	13.5	13.5
	Gross Weight	kg	16	16

Outdoor Unit	Outdoor Unit Model	--	GWH18AGDXB-K6DNA1Z/O
	Outdoor Unit Product Code	--	CB385W20600
	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	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30.00
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	55
	Sound Power Level	dB (A)	65
	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		--	GWH18AGD-K6DNA4D GWH18AGDXB-K6DNA2D	GWH18AGDXB-K6DNA2D
Product Code		--	CB558000901 CB543004702	CB543004701
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases	--	1	
Power Supply Mode		--	Outdoor	
Cooling Capacity		W	4600	
Heating Capacity		W	5200	
Cooling Power Input		W	1355	
Heating Power Input		W	1340	
Cooling Current Input		A	5.9	
Heating Current Input		A	5.8	
Rated Input		W	1900	
Rated Cooling Current		A	8	
Rated Heating Current		A	9	
Air Flow Volume		m ³ /h	910/850/780/740/700/650/610	
Dehumidifying Volume		L/h	1.8	
EER		W/W	3.39	
COP		W/W	3.88	
SEER		--	6.4	
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-	
Application Area		m ²	21-31	
Indoor Unit	Model	--	GWH18AGD-K6DNA4D/I GWH18AGDXB-K6DNA2D/I	GWH18AGDXB-K6DNA2D/I
	Product Code	--	CB558N00901 CB543N04702	CB543N04701
	Fan Type	--	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ106×739	
	Cooling Speed	r/min	1230/1050/980/900/850/800/750	
	Heating Speed	r/min	1200/1050/980/900/850/800/750	
	Fan Motor Power Output	W	35	
	Fan Motor RLA	A	0.45	
	Fan Motor Capacitor	μF	2.5	
	Evaporator Form	--	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Φ5	
	Evaporator Row-fin Gap	mm	2-1.3	
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9	
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF	MP24AK/MP24BA
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 44/39/37/34/32/30/29 Heating: 44/40/37/34/32/30/29	
	Sound Power Level	dB (A)	Cooling: 57/52/50/47/45/43/42 Heating: 57/53/50/47/45/43/42	
	Dimension (WXHXD)	mm	982X311X221	
	Dimension of Carton Box (LXWXH)	mm	1039X377X287	
	Dimension of Package (LXWXH)	mm	1044X385X297	
	Net Weight	kg	13.5	
	Gross Weight	kg	16	

Outdoor Unit	Outdoor Unit Model	--	GWH18AGD-K6DNA1D/O
	Outdoor Unit Product Code	--	CB385W08300
	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	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	55
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X605
	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		--	GWH18AGD-K6DNA1D
Product Code		--	CB385008303
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases	--	1
Power Supply Mode		--	Outdoor
Cooling Capacity		W	4600
Heating Capacity		W	5200
Cooling Power Input		W	1355
Heating Power Input		W	1340
Cooling Current Input		A	5.9
Heating Current Input		A	5.8
Rated Input		W	1900
Rated Cooling Current		A	8
Rated Heating Current		A	9
Air Flow Volume		m ³ /h	910/850/780/740/700/650/610
Dehumidifying Volume		L/h	1.80
EER		W/W	3.39
COP		W/W	3.88
SEER		--	6.4
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-
Application Area		m ²	21-31
Indoor Unit	Model	--	GWH18AGD-K6DNA1D/I
	Product Code	--	CB385N08303
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106×739
	Cooling Speed	r/min	1230/1050/980/900/850/800/750
	Heating Speed	r/min	1200/1050/980/900/850/800/750
	Fan Motor Power Output	W	35
	Fan Motor RLA	A	0.45
	Fan Motor Capacitor	μF	2.5
	Evaporator Form	--	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.3
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF
	Swing Motor Power Output	W	1.5/1.5 /1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:44/39/37/34/32/30/29/ Heating:44/40/37/34/32/30/29
	Sound Power Level	dB (A)	Cooling:57/52/50/47/45/43/42/ Heating:57/53/50/47/45/43/42
	Dimension (WXHXD)	mm	982X311X221
	Dimension of Carton Box (LXWXH)	mm	1060X388X303
	Dimension of Package (LXWXH)	mm	1063X391X318
	Net Weight	kg	13.5
	Gross Weight	kg	17.5

Outdoor Unit	Outdoor Unit Model	--	GWH18AGD-K6DNA1D/O
	Outdoor Unit Product Code	--	CB385W08303
	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	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	55
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X622
	Net Weight	kg	26.5
	Gross Weight	kg	31.5
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.75
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16.0
	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			GWH18AGD-K6DNA1E
Product Code			CB385009102
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply Mode			Outdoor
Cooling Capacity		W	5300
Heating Capacity		W	5600
Cooling Power Input		W	1501
Heating Power Input		W	1393
Cooling Current Input		A	7.2
Heating Current Input		A	6.3
Rated Input		W	2350
Rated Cooling Current		A	10
Rated Heating Current		A	10.5
Air Flow Volume		m ³ /h	1000/850/760/650/580/520/450
Dehumidifying Volume		L/h	1.9
EER		W/W	3.53
COP		W/W	4.02
SEER			7.3
SCOP(Average/WarmerColder)			4.2/5.7/3.5
Application Area		m ²	23-34
Indoor Unit	Model		GWH18AGD-K6DNA1E/I
	Product Code		CB385N09102
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106×739
	Cooling Speed	r/min	1300/1150/1030/960/800/700/650/500
	Heating Speed	r/min	1300/1150/1040/950/900/880/800
	Fan Motor Power Output	W	45
	Fan Motor RLA	A	0.25
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.3
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9
	Swing Motor Model		MP24AK/MP24BA/MP24HF
	Swing Motor Power Output	W	1.5/1.5 /1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:45/42/41/37/34/29/26/23 Heating:48/44/42/37/36/35/32
	Sound Power Level	dB (A)	Cooling:60/55/54/50/47/42/39/36 Heating:60/57/55/50/49/48/45
	Dimension (WXHDXD)	mm	982X311X221
	Dimension of Carton Box (LXWXH)	mm	1039X377X287
	Dimension of Package (LXWXH)	mm	1044X385X297
	Net Weight	kg	12.5
	Gross Weight	kg	15

Outdoor Unit	Outdoor Unit Model		GWH18AGD-K6DNA1E/O
	Outdoor Unit Product Code		CB385W09100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A120zH170A
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	18
	Compressor RLA	A	5
	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	895×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	2200
	Fan Type		Axial-flow
	Fan Diameter	mm	420
	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	dB (A)	56
	Sound Power Level	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	33.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.85
Connection Pipe	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe		1/4"
	Outer Diameter Gas Pipe		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		--	GWH18AGDXD-K6DNA4E
Product Code		--	CB558009601/CB558009602/CB558009603
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases	--	1
Power Supply Mode		--	Outdoor
Cooling Capacity		W	5300
Heating Capacity		W	5600
Cooling Power Input		W	1501
Heating Power Input		W	1393
Cooling Current Input		A	7.2
Heating Current Input		A	6.3
Rated Input		W	2350
Rated Cooling Current		A	10
Rated Heating Current		A	10.5
Air Flow Volume		m ³ /h	1000/850/760/650/580/520/450
Dehumidifying Volume		L/h	1.9
EER		W/W	3.53
COP		W/W	4.02
SEER		--	7.3
SCOP(Average/Warmer/Colder)		--	4.2/5.7/3.5
Application Area		m ²	23-34
Indoor Unit	Model	--	GWH18AGDXD-K6DNA4E/I
	Product Code	--	CB558N09600/CB558N09602/CB558N09603
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106×739
	Cooling Speed	r/min	1300/1150/1030/960/800/700/650/500
	Heating Speed	r/min	1300/1150/1040/950/900/880/800
	Fan Motor Power Output	W	45
	Fan Motor RLA	A	0.25
	Fan Motor Capacitor	μF	/
	Evaporator Form	--	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.3
	Evaporator Coil Length (LXD×W)	mm	745×22.8×342.9
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32
	Sound Power Level	dB (A)	Cooling: 60/55/54/50/47/42/39/36 Heating: 60/57/55/50/49/48/45
	Dimension (WXH×D)	mm	982X311X221
	Dimension of Carton Box (LXWXH)	mm	1039X377X287
	Dimension of Package (LXWXH)	mm	1044X385X297
	Net Weight	kg	12.5
	Gross Weight	kg	15

Outdoor Unit	Outdoor Unit Model	--	GWH18AGD-K6DNA1E/O
	Outdoor Unit Product Code	--	CB385W09101
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	--	QXF-A120zH170A
	Compressor Oil	--	FW68DA or equivalent
	Compressor Type	--	Rotary
	Compressor LRA.	A	18
	Compressor RLA	A	5
	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	895×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	56
	Sound Power Level	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	33.5
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.85
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		--	GWH18AGDXD-K6DNA1Z GWH18AGDXD-K6DNA2Z GWH18AGDXD-K6DNA4Z
Product Code		--	CB385022600 CB543011500 CB558016200
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases	--	1
Power Supply Mode		--	Outdoor
Cooling Capacity		W	5300
Heating Capacity		W	5350
Cooling Power Input		W	1582
Heating Power Input		W	1393
Cooling Current Input		A	7.2
Heating Current Input		A	6.3
Rated Input		W	2350
Rated Cooling Current		A	10
Rated Heating Current		A	10.5
Air Flow Volume		m ³ /h	1000/850/760/650/580/520/450
Dehumidifying Volume		L/h	1.9
EER		W/W	3.35
COP		W/W	3.84
SEER		--	7.3
SCOP(Average/Warmer/Colder)		--	4.2/5.7/3.5
Application Area		m ²	23-34
Indoor Unit	Model	--	GWH18AGDXD-K6DNA1Z/I GWH18AGDXD-K6DNA2Z/I GWH18AGDXD-K6DNA4Z/I
	Product Code	--	CB385N22600 CB543N11500 CB558N16200
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106×739
	Cooling Speed	r/min	1300/1150/1030/960/800/700/650/500
	Heating Speed	r/min	1300/1150/1040/950/900/880/800
	Fan Motor Power Output	W	45
	Fan Motor RLA	A	0.25
	Fan Motor Capacitor	μF	/
	Evaporator Form	--	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.3
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9
	Swing Motor Model	--	MP24AK/MP24BA/MP24HF
	Swing Motor Power Output	W	1.5/1.5 /1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:45/42/41/37/34/29/26/23 Heating:48/44/42/37/36/35/32
	Sound Power Level	dB (A)	Cooling:60/55/54/50/47/42/39/36 Heating:60/57/55/50/49/48/45
	Dimension (WXHDX)	mm	982X311X221
	Dimension of Carton Box (LXWXH)	mm	1039X377X287
	Dimension of Package (LXWXH)	mm	1044X385X297
	Net Weight	kg	12.5
	Gross Weight	kg	15

Outdoor Unit	Outdoor Unit Model	--	GWH18AGDXD-K6DNA1Z/O
	Outdoor Unit Product Code	--	CB385W22600
	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	895×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	56
	Sound Power Level	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	33.5
	Refrigerant	--	R32
	Refrigerant Charge	kg	0.85
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		--	GWH24AGDXE-K6DNA2C GWH24AGD-K6DNA4C	GWH24AGDXE-K6DNA2C
Product Code		--	CB543004800 CB558001001	CB543004801
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases	--	1	
Power Supply Mode		--	Outdoor	
Cooling Capacity		W	6200	
Heating Capacity		W	6500	
Cooling Power Input		W	1786	
Heating Power Input		W	1645	
Cooling Current Input		A	7.6	
Heating Current Input		A	7.6	
Rated Input		W	2200	
Rated Cooling Current		A	9.3	
Rated Heating Current		A	9.7	
Air Flow Volume		m ³ /h	1050/950/800/750/700/650/600/550	
Dehumidifying Volume		L/h	1.8	
EER		W/W	3.47	
COP		W/W	3.95	
SEER		--	6.8	
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-	
Application Area		m ²	23-34	
Indoor Unit	Model	--	GWH24AGDXE-K6DNA2C/I GWH24AGD-K6DNA4C/I	GWH24AGDXE-K6DNA2C/I
	Product Code	--	CB543N04800 CB558N01001	CB543N04801
	Fan Type	--	Cross-flow	
	Fan Diameter Length(DXL)	mm	Φ106×739	
	Cooling Speed	r/min	1350/1200/1100/1000/900/850/800	
	Heating Speed	r/min	1350/1200/1100/1000/900/850/800	
	Fan Motor Power Output	W	35	
	Fan Motor RLA	A	0.45	
	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	745×22.8×342.9	
	Swing Motor Model	--	MP24BA/MP24AK/MP24HF	MP24BA MP24AK
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 46/42/40/37/35/32/30 Heating: 48/44/40/37/34/32/30	
	Sound Power Level	dB (A)	Cooling: 63/59/57/54/53/49/47 Heating: 63/59/55/52/49/47/45	
	Dimension (WXHDX)	mm	982X311X221	
	Dimension of Carton Box (LXWXH)	mm	1039X377X287	
	Dimension of Package (LXWXH)	mm	1044X385X297	
	Net Weight	kg	14	
	Gross Weight	kg	16.5	

Outdoor Unit	Outdoor Unit Model	--	GWH24AGD-K6DNA1C/O
	Outdoor Unit Product Code	--	CB385W08600
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	--	FTz-SM151AXBBD
	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	0.7
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	57
	Sound Power Level	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	1.18
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		--	GWH24AGDXE-K6DNA1Z	
Product Code		--	CB385020700	CB385020701
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	1786	1786
Heating Power Input		W	1645	1645
Cooling Current Input		A	7.6	7.6
Heating Current Input		A	7.6	7.6
Rated Input		W	2200	2200
Rated Cooling Current		A	9.3	9.3
Rated Heating Current		A	9.7	9.7
Air Flow Volume		m ³ /h	1050/950/800/750/700/650/600/550	1050/950/800/750/700/650/600/550
Dehumidifying Volume		L/h	1.8	1.8
EER		W/W	3.47	3.47
COP		W/W	3.95	3.95
SEER		--	6.8	6.8
SCOP(Average/Warmer/Colder)		--	4.0/5.1/-	4.0/5.1/-
Application Area		m ²	23-34	23-34
Indoor Unit	Model	--	GWH24AGDXE-K6DNA1Z/I	
	Product Code	--	CB385N20700	CB385N20701
	Fan Type	--	Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ106×739	Φ106×739
	Cooling Speed	r/min	1350/1200/1100/1000/900/850/800	1350/1200/1100/1000/900/850/800
	Heating Speed	r/min	1350/1200/1100/1000/900/850/800	1350/1200/1100/1000/900/850/800
	Fan Motor Power Output	W	35	35
	Fan Motor RLA	A	0.45	0.45
	Fan Motor Capacitor	μF	3	3
	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	745×22.8×342.9	745×22.8×342.9
	Swing Motor Model	--	MP24BA/MP24AK	MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5	1.5/1.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling: 46/42/40/37/35/32/30 Heating: 48/44/40/37/34/32/30	Cooling: 46/42/40/37/35/32/30 Heating: 48/44/40/37/34/32/30
	Sound Power Level	dB (A)	Cooling: 63/59/57/54/53/49/47 Heating: 63/59/55/52/49/47/45	Cooling: 63/59/57/54/53/49/47 Heating: 63/59/55/52/49/47/45
	Dimension (WXHDXD)	mm	982X311X221	982X311X221
	Dimension of Carton Box (LXWXH)	mm	1039X377X287	1039X377X287
	Dimension of Package (LXWXH)	mm	1044X385X297	1044X385X297
	Net Weight	kg	14	14
	Gross Weight	kg	16.5	16.5

Outdoor Unit	Outdoor Unit Model	--	GWH24AGDXE-K6DNA1Z/O
	Outdoor Unit Product Code	--	CB385W20700
	Compressor Manufacturer	--	ZHUHAI LINDA 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	0.7
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	57
	Sound Power Level	dB (A)	67
	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	1.18
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			GWH24AGE-K6DNA1A GWH24AGEXF-K6DNA4A
Product Code			CB385007504 CB558009702
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 ³ /h	1250/1100/1000/950/900/850/800/600
Dehumidifying Volume		L/h	2.4
EER		W/W	3.5
COP		W/W	3.9
SEER			7
SCOP(Average/WarmerColder)			4.2/5.4/3.4
Application Area		m ²	27-42
Indoor Unit	Model		GWH24AGE-K6DNA1A/I GWH24AGEXF-K6DNA4A/I
	Product Code		CB385N07504 CB558N09702
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	108×830
	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	845×25.4×381
	Swing Motor Model		MP24HF/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:48/44/41/40/38/36/33/27 Heating:50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48/42 Heating:64/62/58/56/55/51/50
	Dimension (WXHDX)	mm	1075X333X246
	Dimension of Carton Box (LXWXH)	mm	1128X406X323
	Dimension of Package (LXWXH)	mm	1133X414X333
	Net Weight	kg	16
	Gross Weight	kg	19

Outdoor Unit	Outdoor Unit Model		GWH24AFE-K6DNA2I/O
	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
	Compressor RLA	A	3.5
	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	839×38.1×616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.65
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	3600
	Fan Type		Axial-flow
	Fan Diameter	mm	520
	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	dB (A)	59
	Sound Power Level	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		1/4"
	Outer Diameter Gas Pipe		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		--	GWH24AGEXF-K6DNA4A
Product Code		--	CB558009703/CB558009704/CB558009705
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 ³ /h	1250/1100/1000/950/900/850/800/600
Dehumidifying Volume		L/h	2.4
EER		W/W	3.5
COP		W/W	3.9
SEER		--	7
SCOP(Average/Warmer/Colder)		--	4.2/5.4/3.4
Application Area		m ²	27-42
Indoor Unit	Model	--	GWH24AGEXF-K6DNA4A/I
	Product Code	--	CB558N09700/CB558N09701/CB558N09702
	Fan Type	--	Cross-flow
	Fan Diameter Length(DXL)	mm	Φ108×830
	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	845×25.4×381
	Swing Motor Model	--	MP24HF/MP24HF/MP24AK
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling: 48/44/41/40/38/36/33/27 Heating: 50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50
	Dimension (WXHXD)	mm	1075X333X246
	Dimension of Carton Box (LXWXH)	mm	1128X406X323
	Dimension of Package (LXWXH)	mm	1133X414X333
	Net Weight	kg	16
	Gross Weight	kg	19

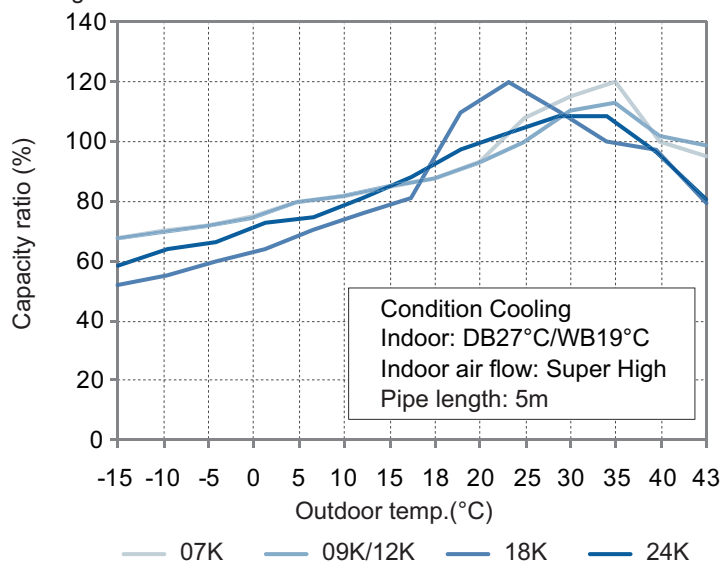
Outdoor Unit	Outdoor Unit Model	--	GWH24AFE-K6DNA2I/O
	Outdoor Unit Product Code	--	CB363W04101
	Compressor Manufacturer	--	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	--	QXFS-M180zX170
	Compressor Oil	--	FW68DA or equivalent
	Compressor Type	--	Twin Rotary
	Compressor LRA.	A	35
	Compressor RLA	A	3.5
	Compressor Power Input	W	1610
	Compressor Overload Protector	--	KSD115°C HPC115/95U1
	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	839×38.1×616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.65
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/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	dB (A)	59
	Sound Power Level	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.

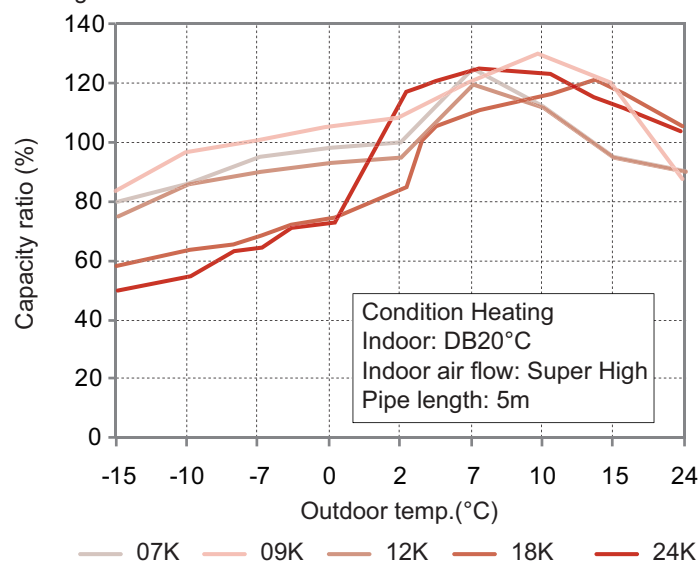
2.2 Capacity Variation Ratio According to Temperature

The models for 07K ~ 24K with heating operation ambient temperature range of -15°C~24°C

Cooling:

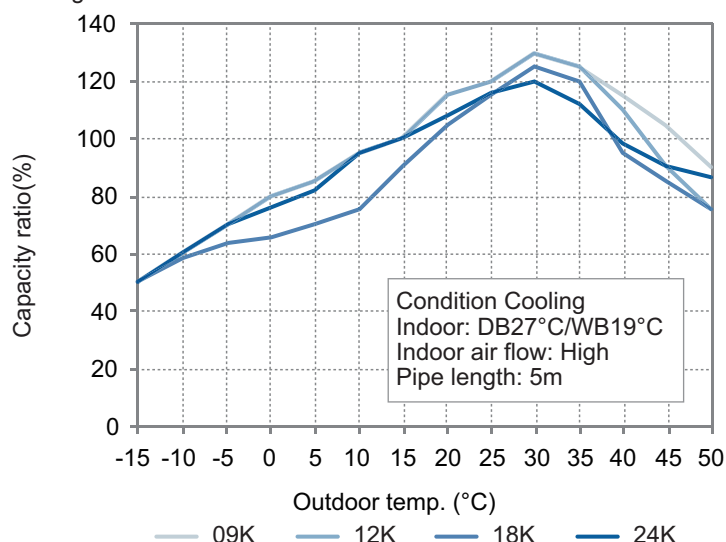


Heating:

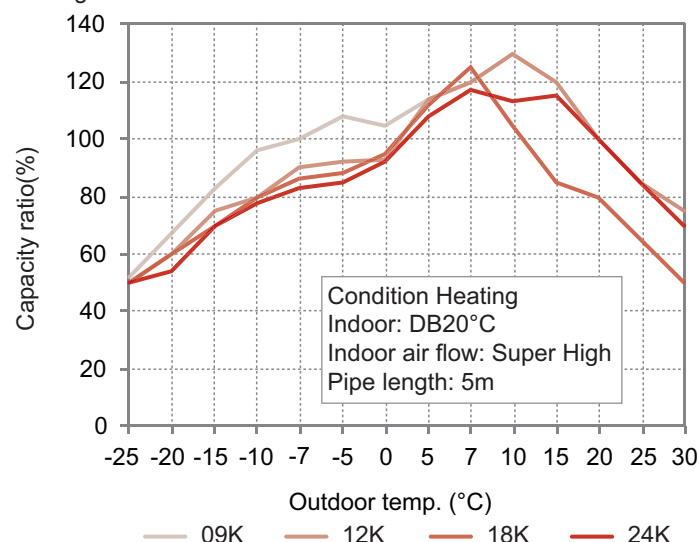


The models for 09K ~ 24K with heating operation ambient temperature range of -25°C~30°C

Cooling:



Heating:



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 P (MPa)	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	07K / 09K	0.8 to 1.1	12 ~ 15	68 ~ 38	Super High	High
27/19	35/24	12K	0.9 to 1.1	12 ~ 14	75 ~ 37	Super High	High
27/19	35/24	18K	0.9 to 1.1	12 ~ 14	75 ~ 37	Super High	High
27/19	35/24	24K	0.9 to 1.1	12 ~ 14	75 ~ 37	Super High	High

Heating:

Rated heating condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit P (MPa)	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	07K / 09K	2.8 to 3.2	63 ~ 35	2 ~ 5	Super High	High
20/-	7/6	12K	2.2 to 2.4	70 ~ 35	2 ~ 4	Super High	High
20/-	7/6	18K	2.2 to 2.4	70 ~ 35	1 ~ 5	Super High	High
20/-	7/6	24K	2.2 to 2.4	70 ~ 35	2 ~ 4	Super High	High

Instruction:

T1: Inlet and outlet pipe temperature of evaporator

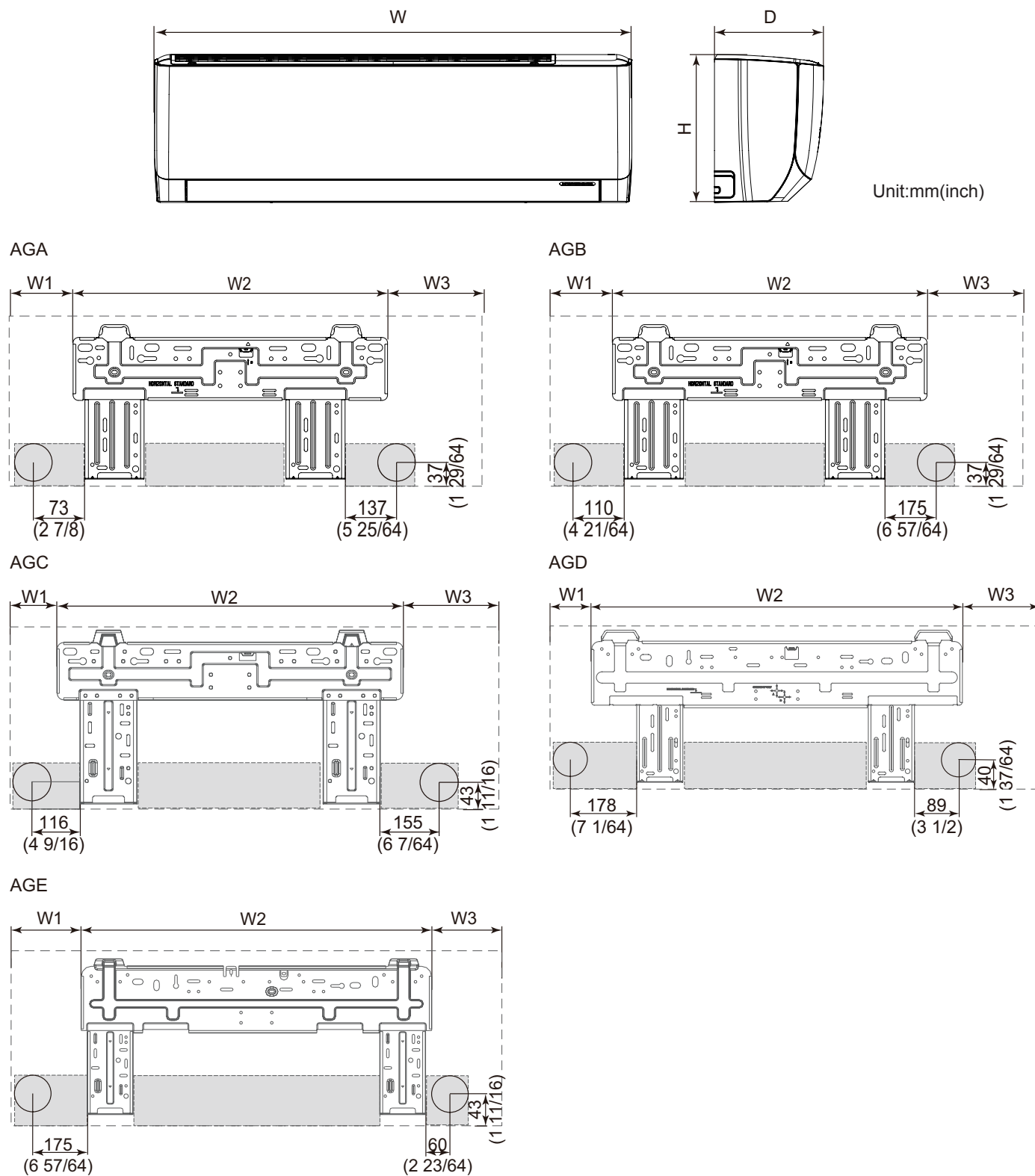
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

Connection pipe length: 5 m.

3. Outline Dimension Diagram

3.1 Indoor Unit

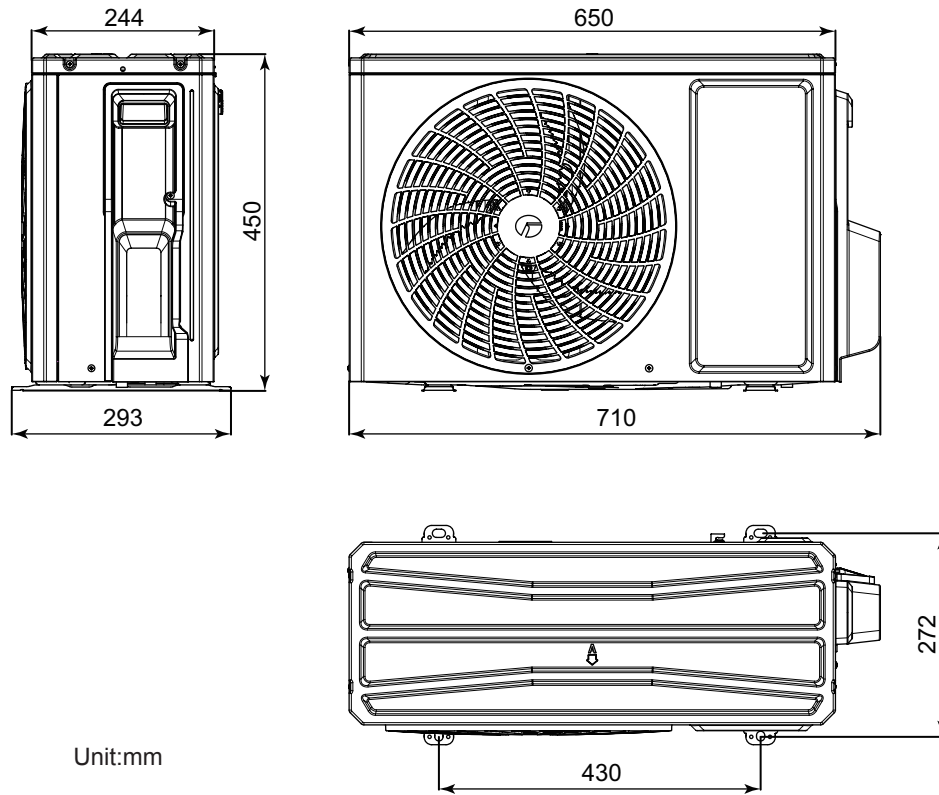


Unit:mm

Model	W	H	D	W1	W2	W3
AGA	704	260	185	93.5	461	149.5
AGB	779	260	185	134	461	184
AGC	825	293	196	113	542	170
AGD	982	311	221	122.5	707.5	152
AGE	1075	333	246	183.5	707.5	184

3.2 Outdoor Unit

GWH07AGA-K6DNA1A/O

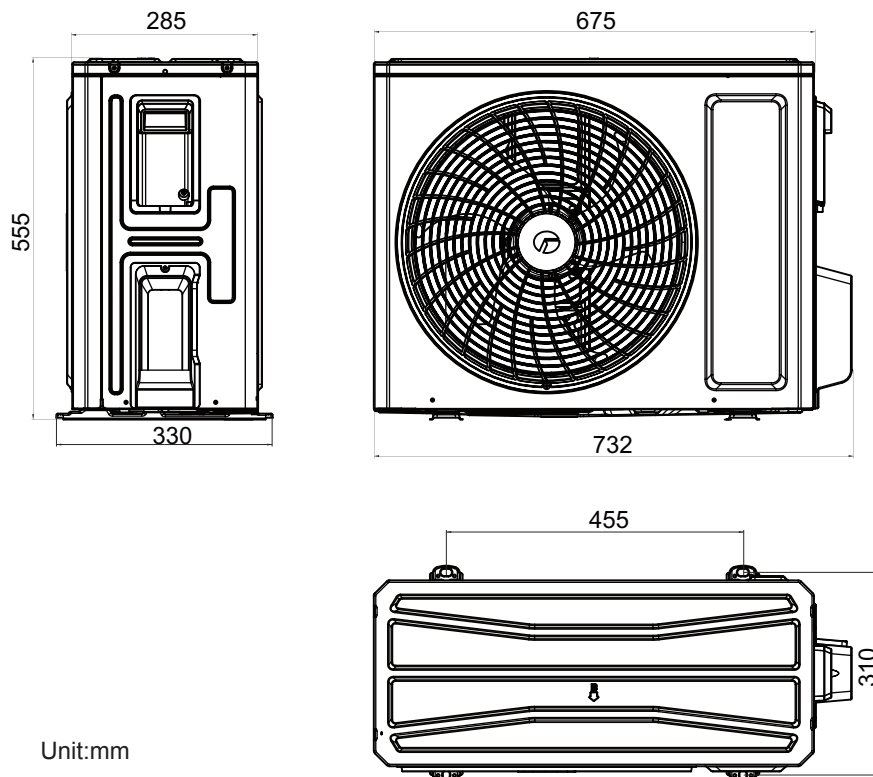


GWH09AGBXB-K6DNA1A/O
GWH18AGD-K6DNA1D/O
GWH09AGBXB-K6DNA1E/O

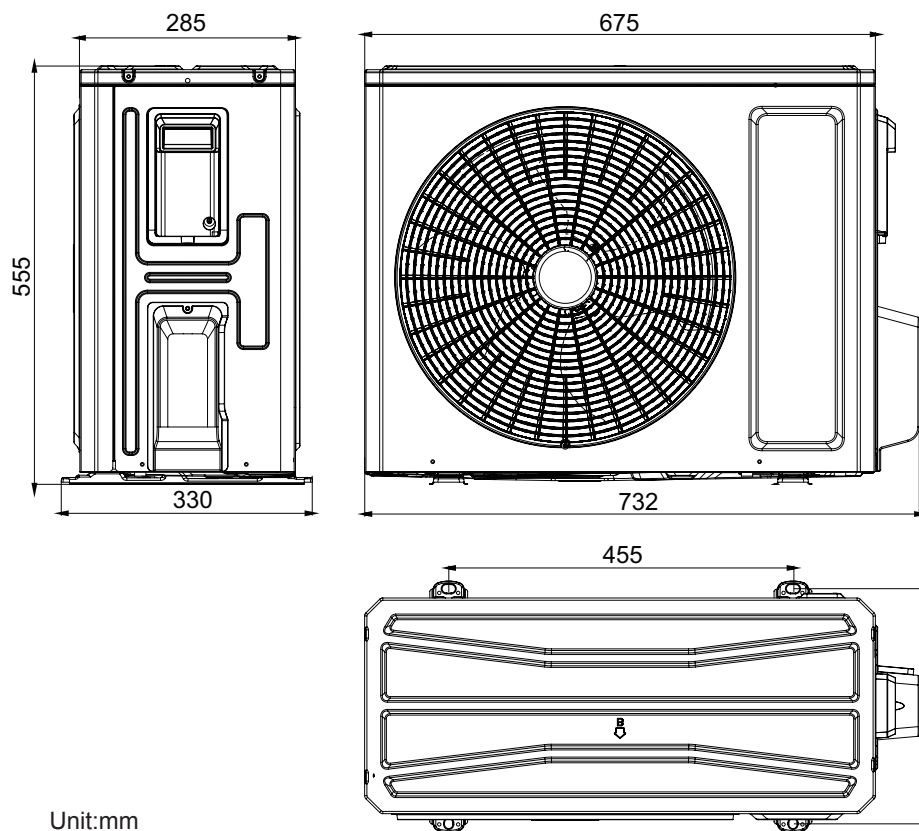
GWH09AGAXB-K6DNA1B/O
GWH09ACCXB-K6DNA1G/O
GWH12AWBXB-K6DNA3F/O

GWH09AFC-K6DNA2F/O
GWH12ATCXB-K6DNA4G/O
GWH09AGCXB-K6DNA1H/O

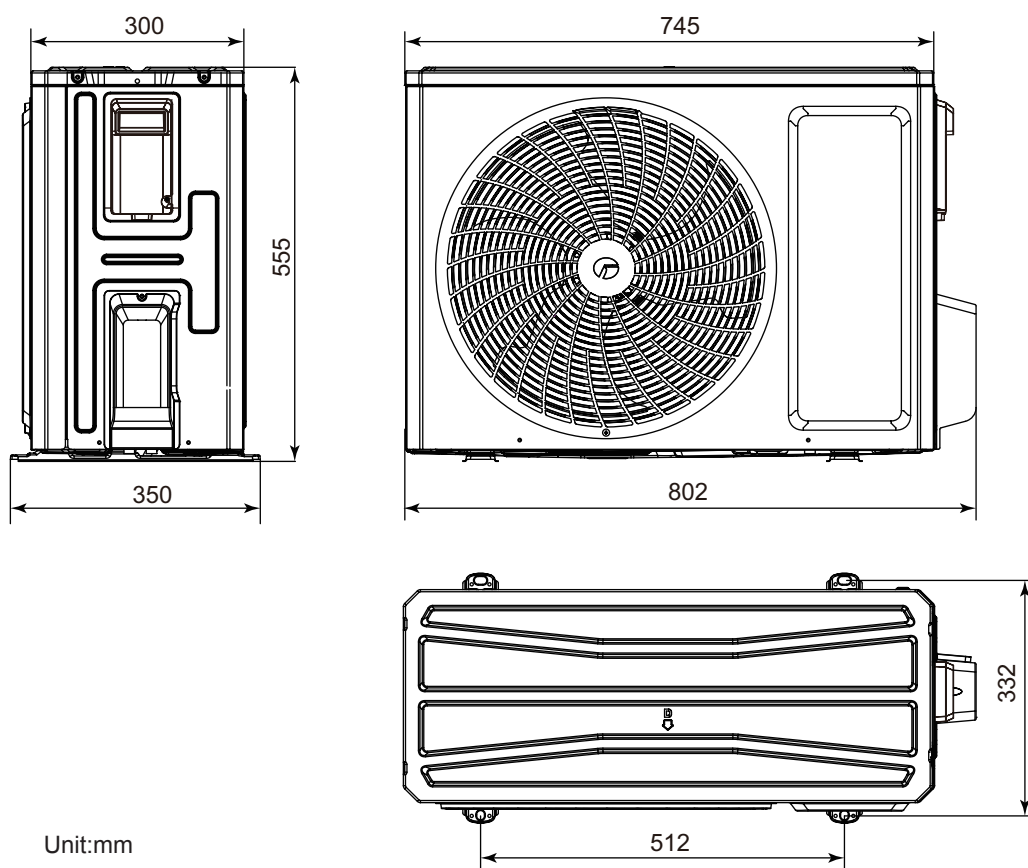
GWH12AFC-K6DNA2F/O
GWH18AGDXB-K6DNA1Z/O



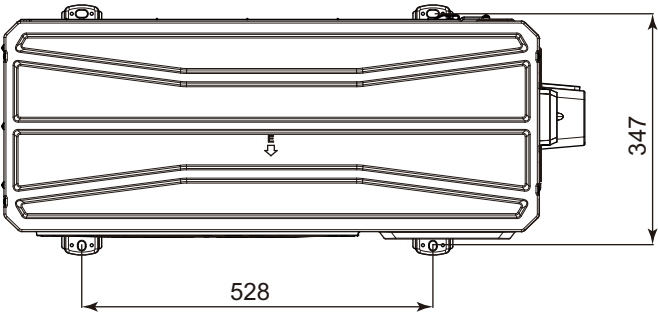
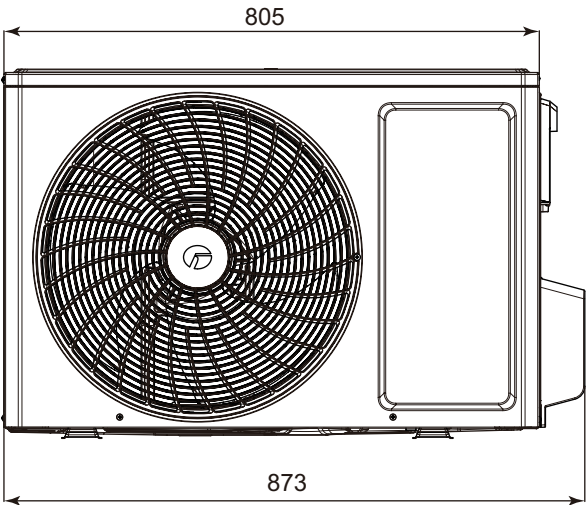
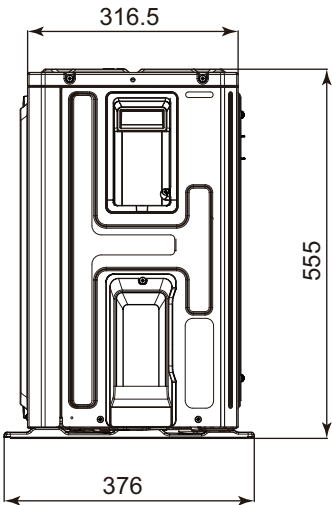
GWH09AWAXB-K6DNA1C/O GWH12AGBXB-K6DNA1Z/O GWH12AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA4C/O
GWH12AGCXB-K6DNA1A/O



GWH18AGD-K6DNA1E/O GWH18AGDXD-K6DNA1Z/O GWH12AWCXD-K6DNA1D/O

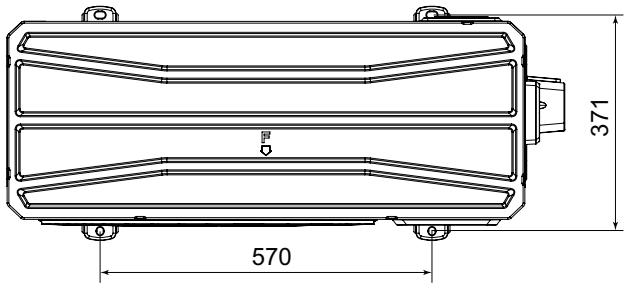
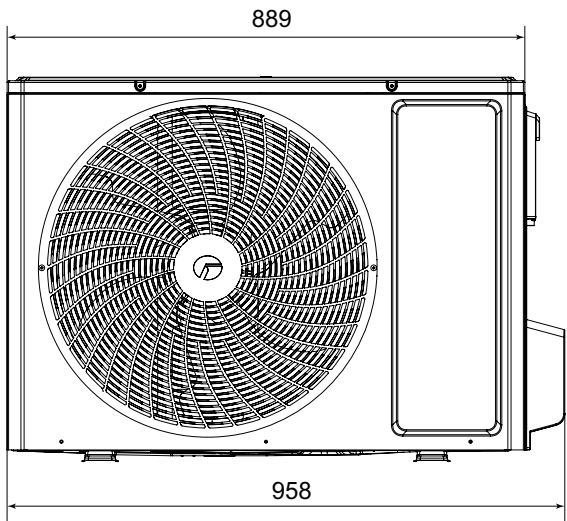
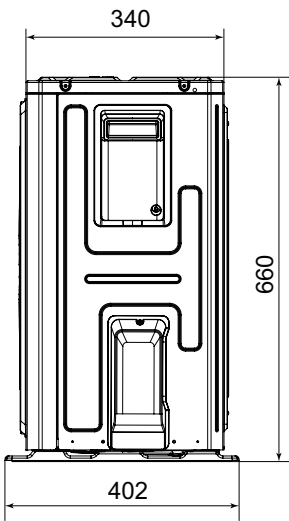


GWH24AGD-K6DNA1C/O GWH24AGDXE-K6DNA1Z/O



Unit:mm

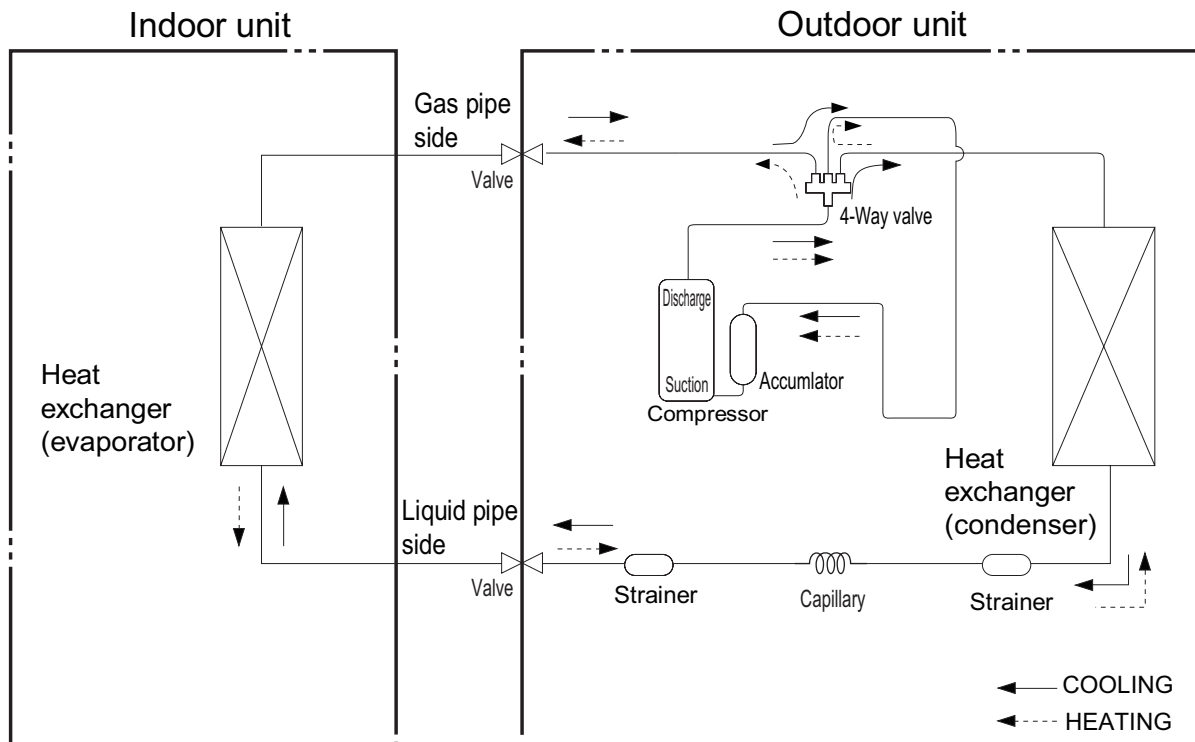
GWH24AFE-K6DNA2I/O



Unit:mm

4. Refrigerant System Diagram

The models of the capillary throttling method are as follows:

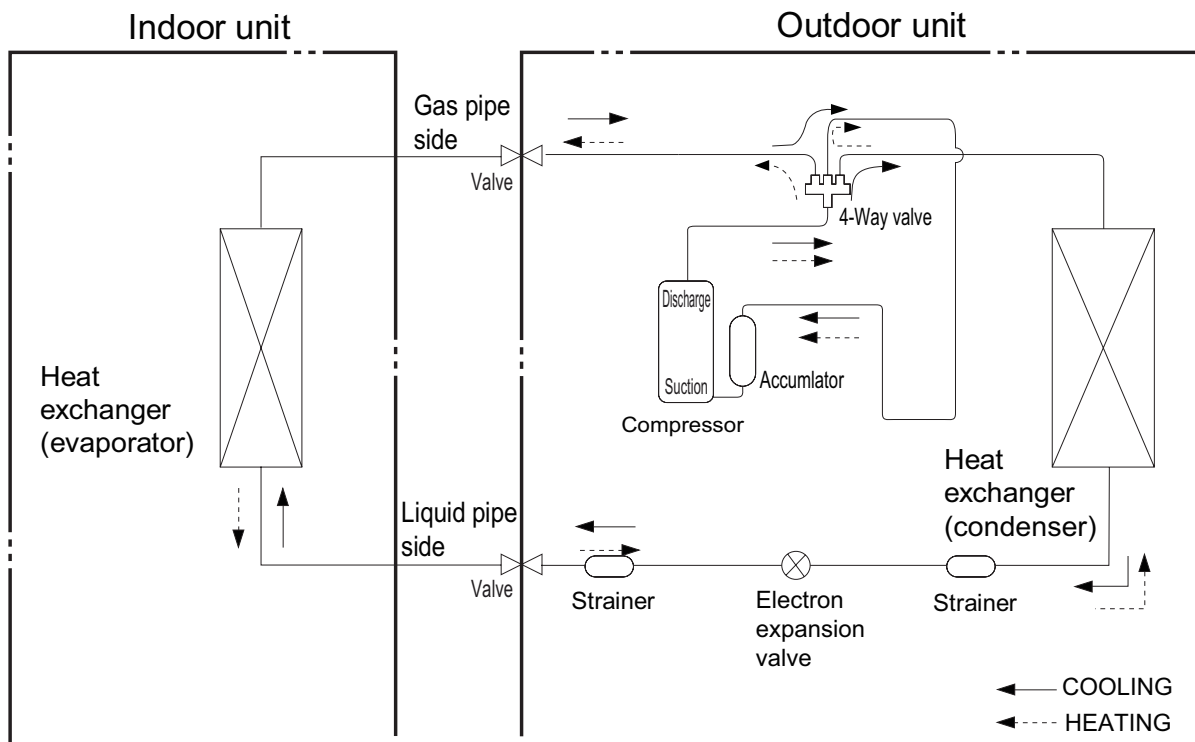


Connection pipe specification:

Liquid pipe: 1/4"

Gas pipe: 3/8" for 07K / 09K / 12K / 18K
1/2" for 24K

The models of the electronic expansion throttling method are as follows:



Connection pipe specification:


Liquid pipe: 1/4"

Gas pipe: 3/8" for 12K
1/2" for 18K
5/8" for 24K

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 lover for this model.

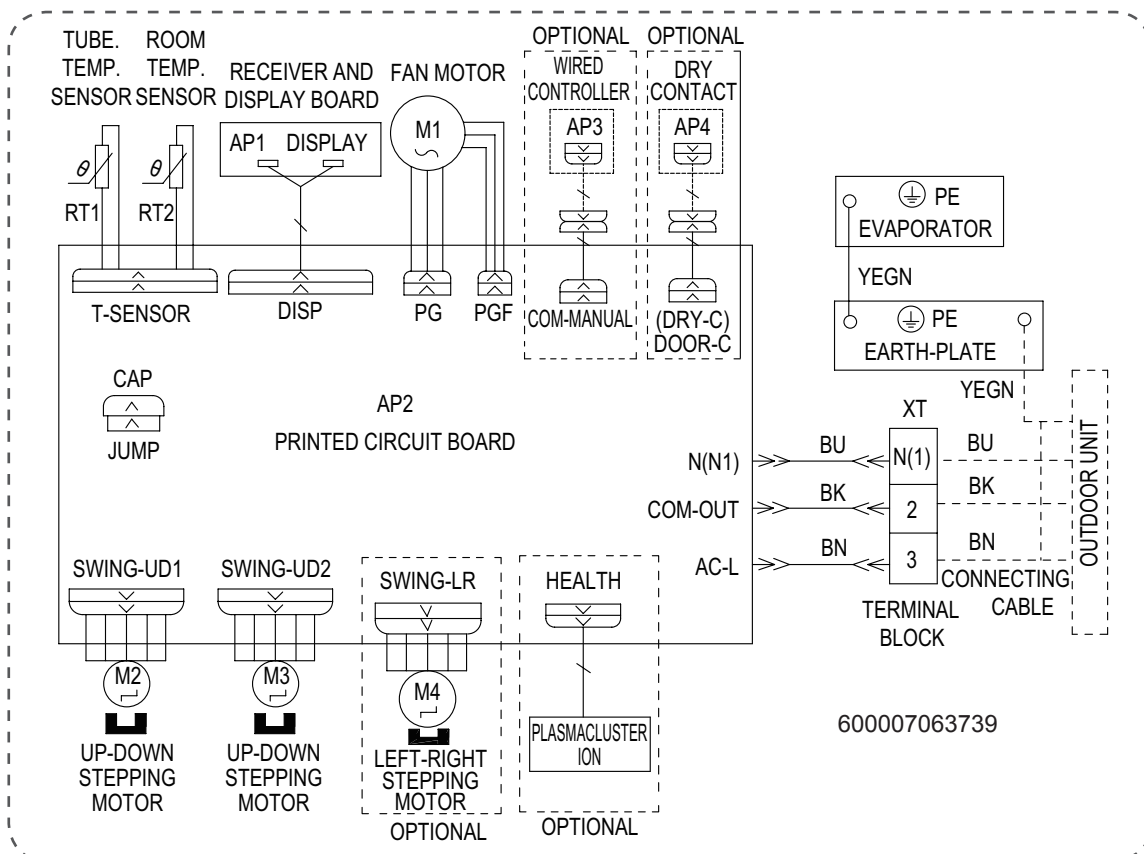
• Indoor Unit

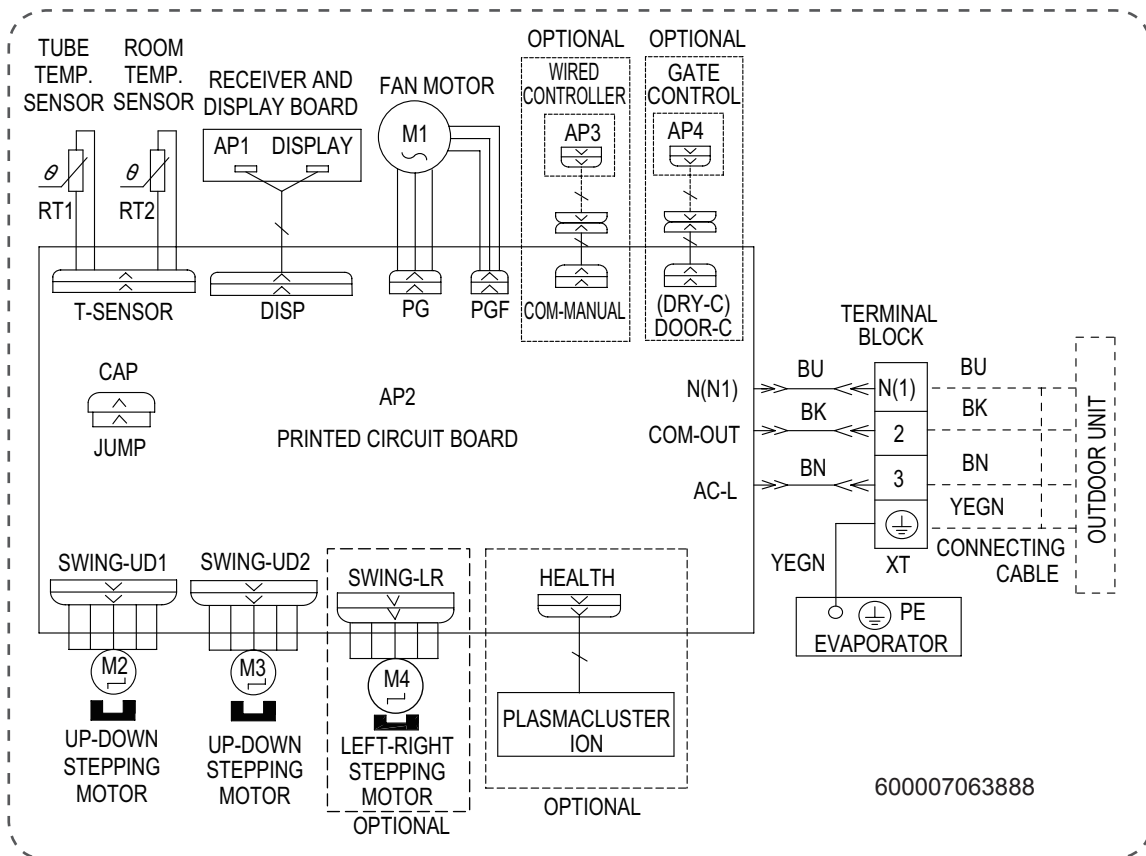
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GWH09AGAXB-K6DNA4B/I
GWH12AGBXB-K6DNA2A/I
GWH12AGBXB-K6DNA1Z/I
GWH12AGBXB-K6DNA4F/I

GWH07AGAXA-K6DNA4A/I
GWH09AGAXB-K6DNA1C/I
GWH12AGBXB-K6DNA4A/I
GWH09AGBXB-K6DNA1E/I

GWH09AGAXB-K6DNA1B/I
GWH09AGBXB-K6DNA1A/I
GWH12AGBXB-K6DNA2C/I
GWH12AGBXB-K6DNA1F/I

GWH09AGAXB-K6DNA2B/I
GWH12AGBXB-K6DNA1A/I
GWH12AGBXB-K6DNA4C/I
GWH07AGA-K6DNA2A/I





GWH18AGD-K6DNA4D/I

GWH24AGDXE-K6DNA2C/I(CB543N04800)

GWH18AGDXB-K6DNA2D/I(CB543N04702)

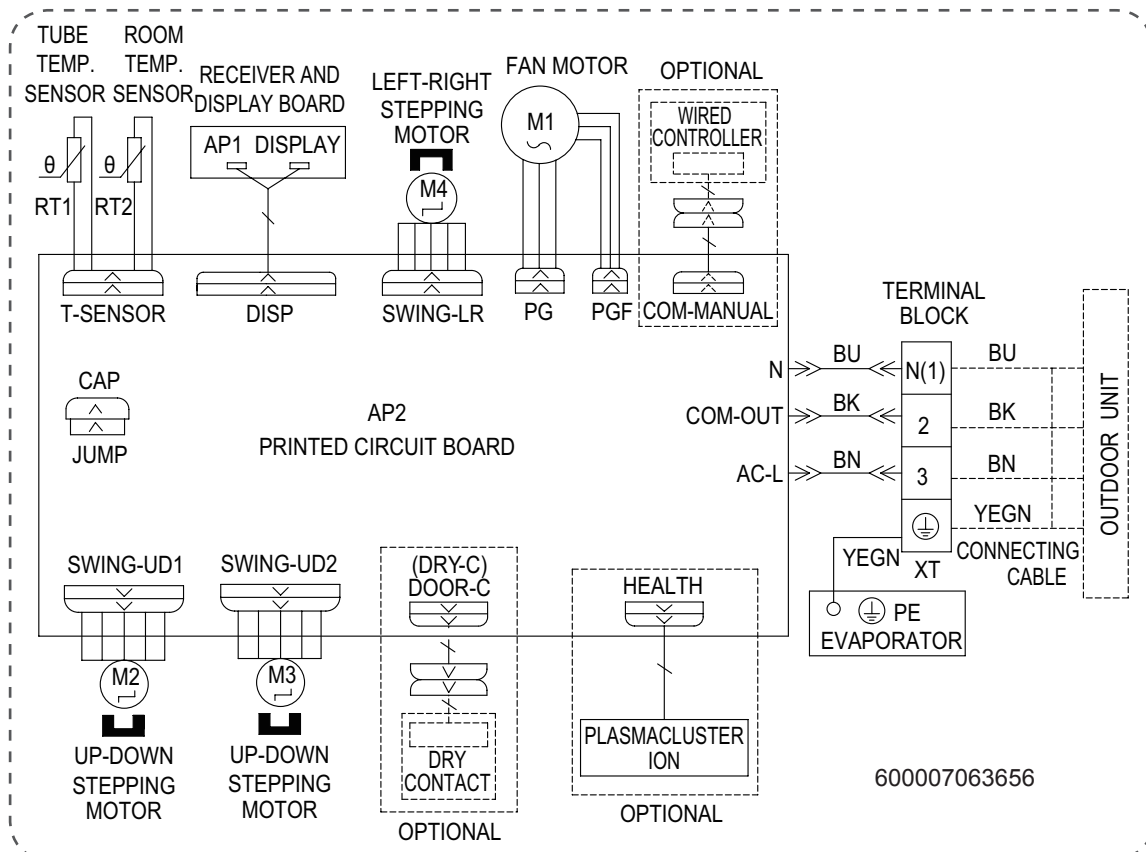
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GWH18AGDXB-K6DNA1Z/I(CB385N20601)

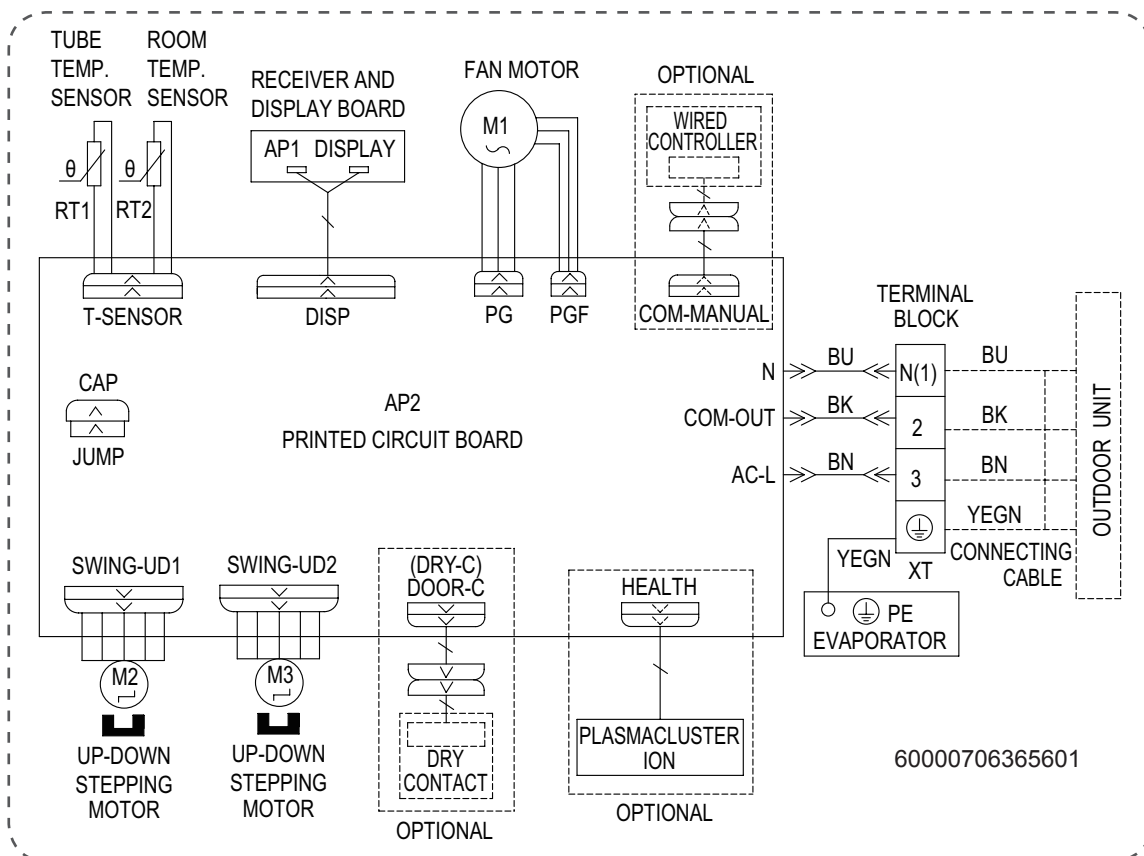
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GWH24AGDXE-K6DNA1Z/I(CB385N20701)



GWH18AGDXB-K6DNA2D/I(CB543N04701)
GWH24AGDXE-K6DNA1Z/I(CB385N20700)

GWH24AGDXE-K6DNA2C/I(CB543N04801)
GWH18AGDXB-K6DNA1Z/I(CB385N20600)

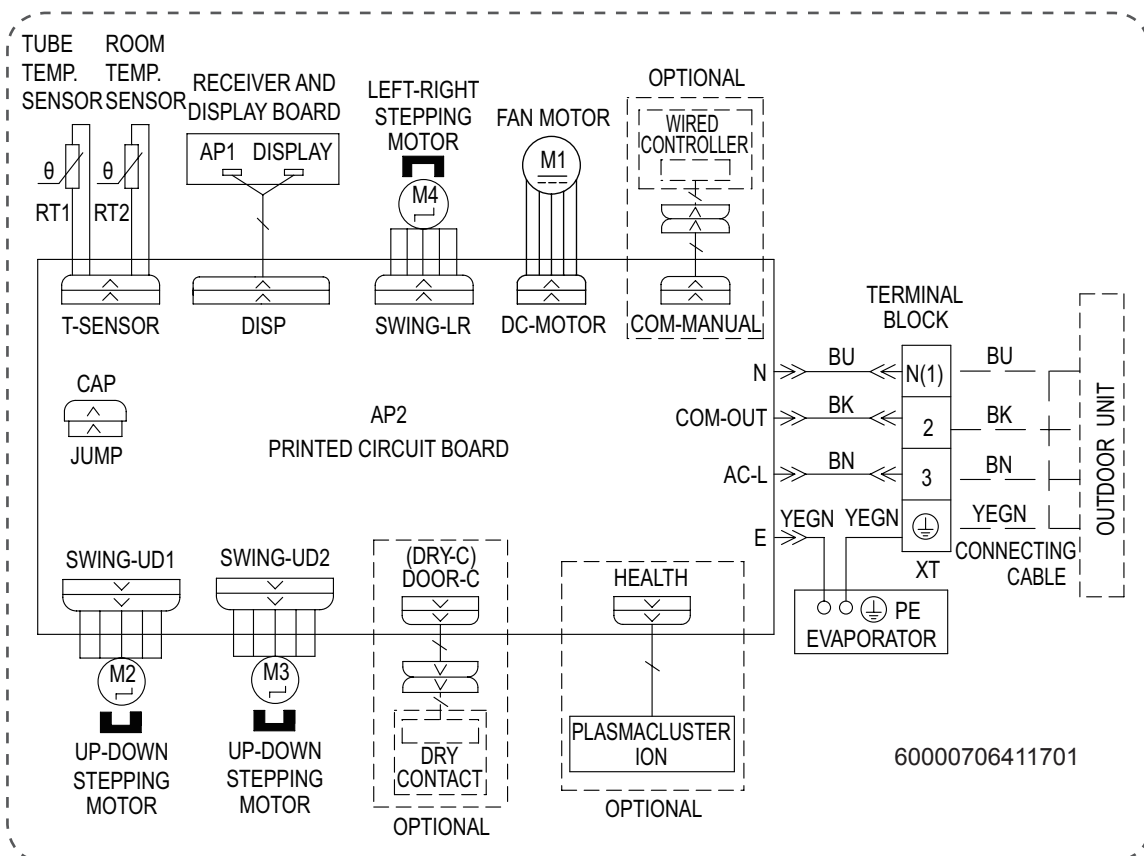


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GWH18AGDXD-K6DNA2Z/I

GWH24AGEXF-K6DNA4A/I
GWH24AGE-K6DNA1A/I

GWH18AGD-K6DNA1E/I
GWH18AGDXD-K6DNA4Z/I

GWH18AGDXD-K6DNA1Z/I

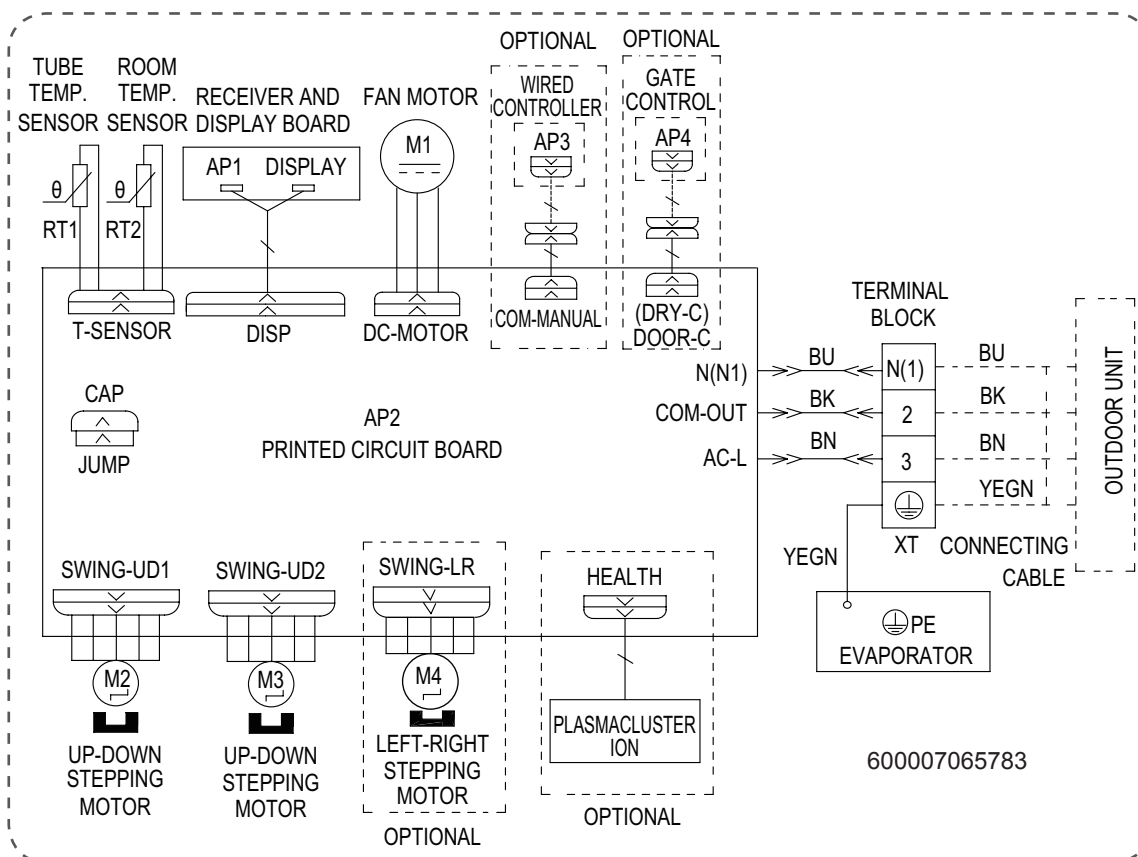


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GWH12AGCXB-K6DNA4G/I

GWH09AGCXB-K6DNA2G/I
GWH09AGCXB-K6DNA2H/I

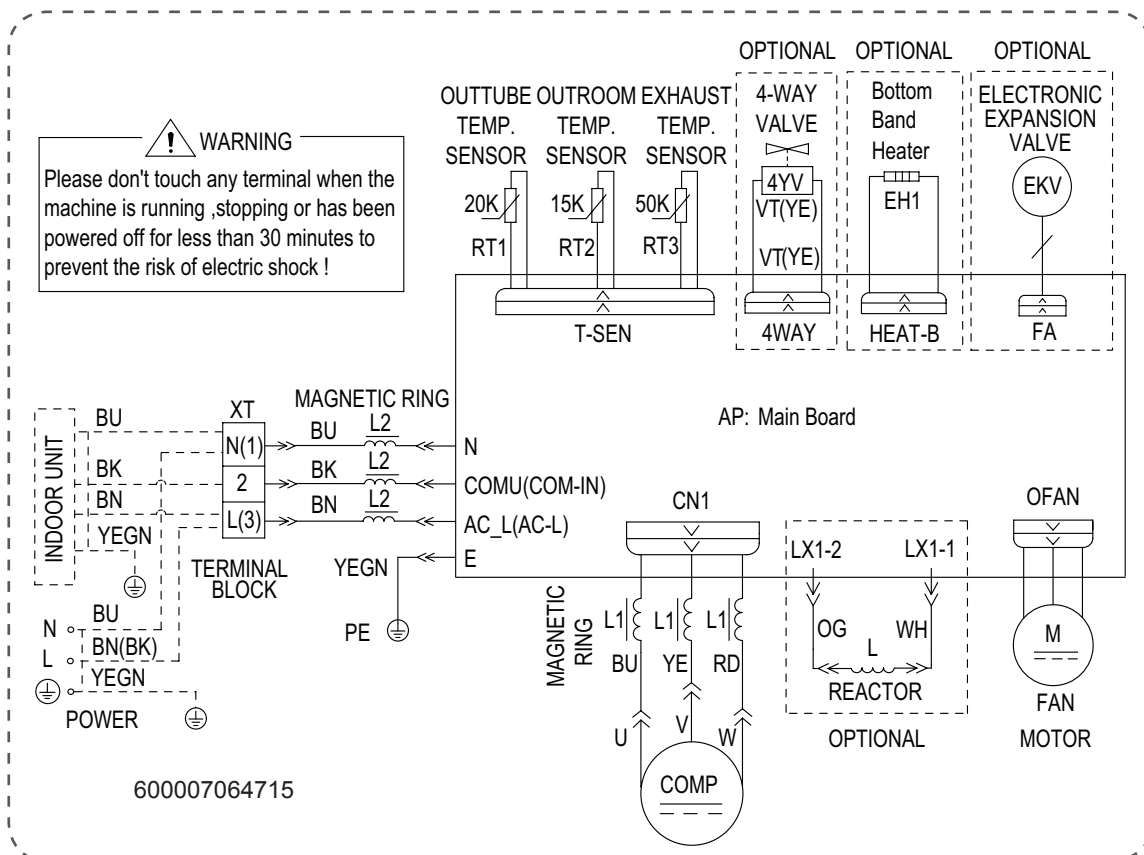
GWH12AGCXB-K6DNA1G/I
GWH09AGCXB-K6DNA4H/I

GWH12AGCXB-K6DNA2G/I
GWH12AGCXD-K6DNA1D/I



• Outdoor Unit

GWH07AGA-K6DNA1A/O



GWH09AGAXB-K6DNA1B/O

GWH09AWAXB-K6DNA1C/O

GWH09AGBXB-K6DNA1A/O

GWH12AGBXB-K6DNA1A/O

GWH12AGCXB-K6DNA1A/O

GWH12AGBXB-K6DNA1Z/O

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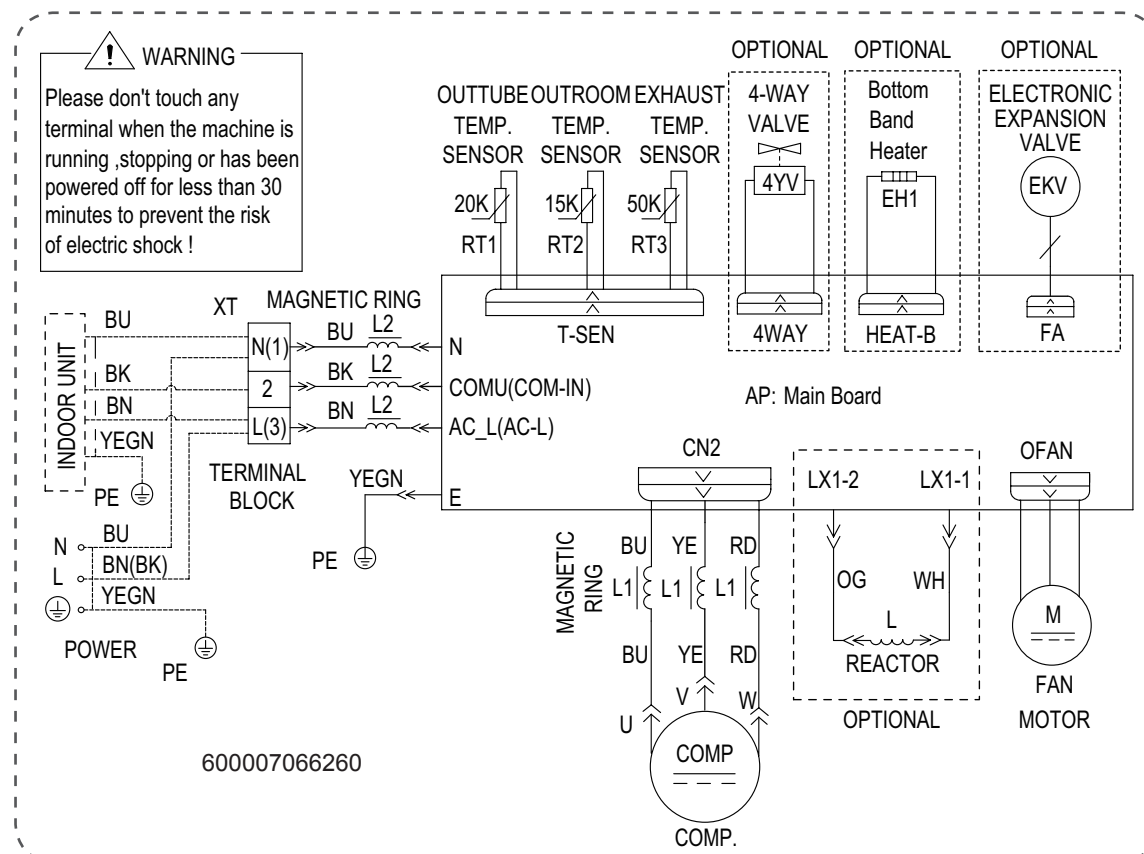
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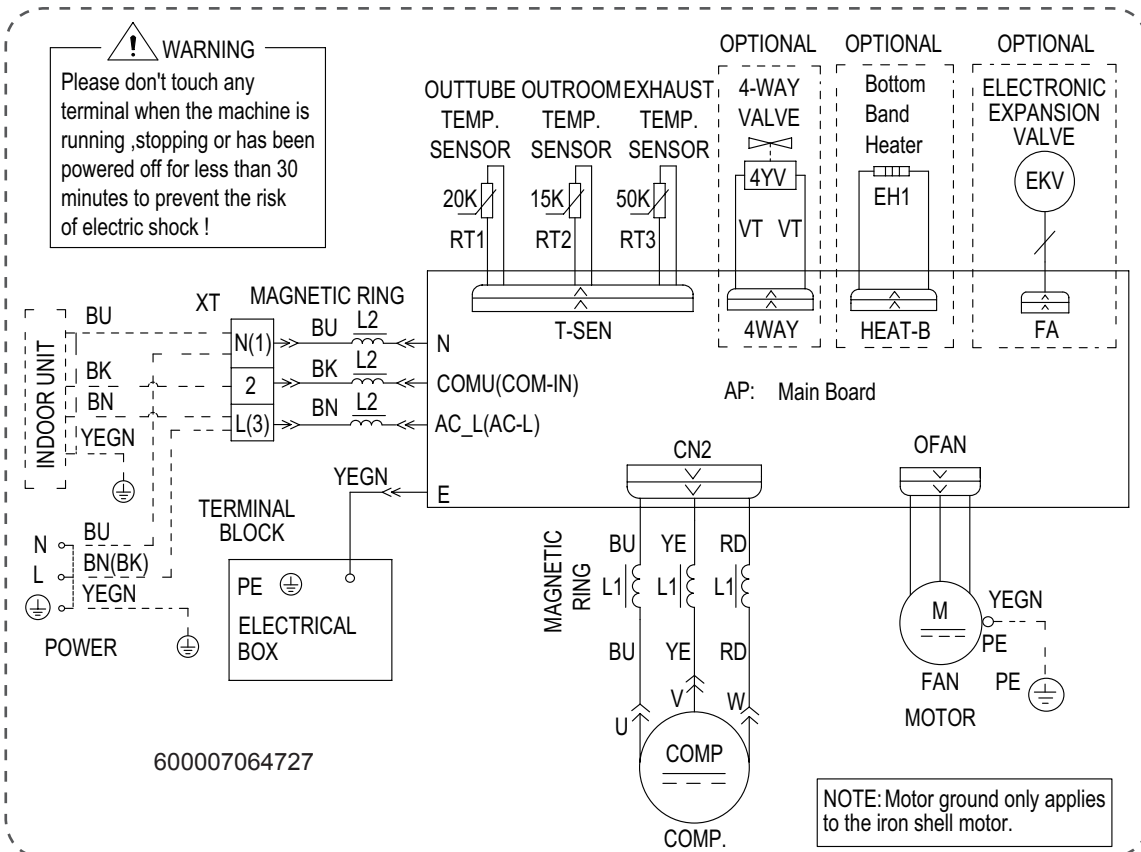
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GWH12AWBXB-K6DNA3F/O

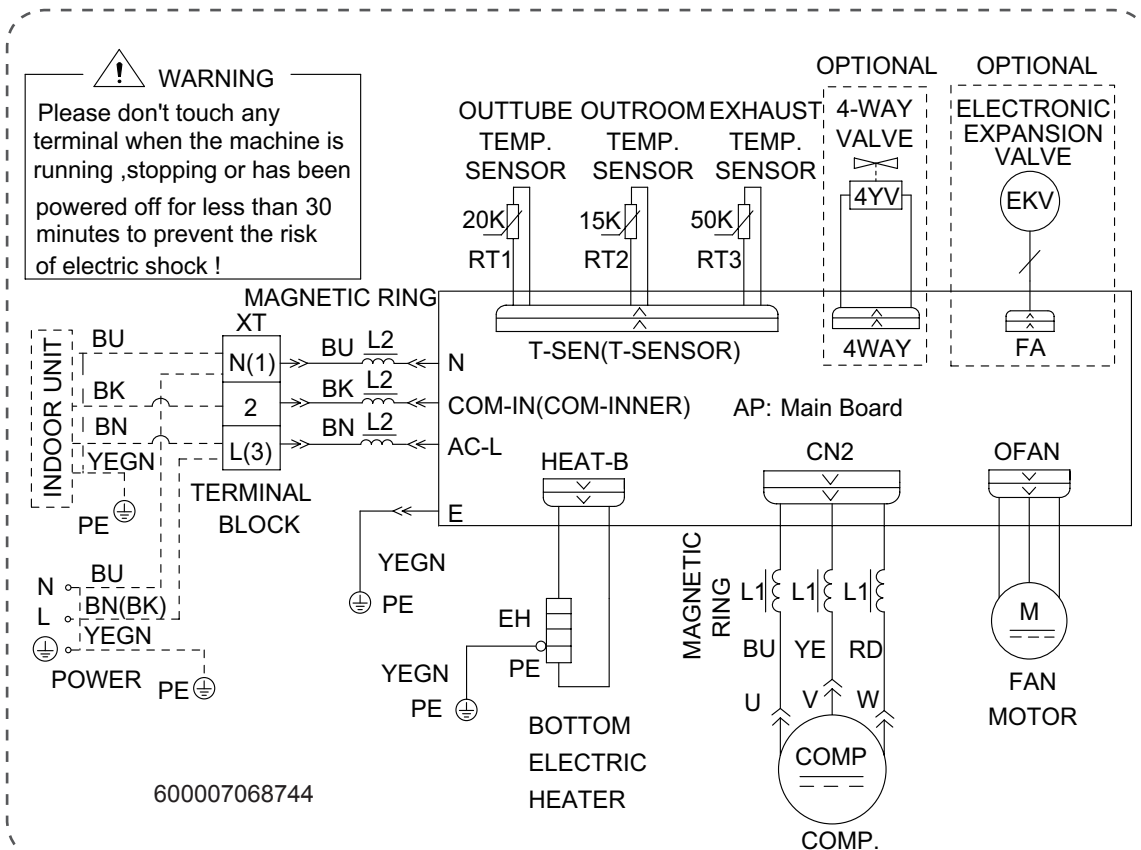
GWH09AGCXB-K6DNA1H/O

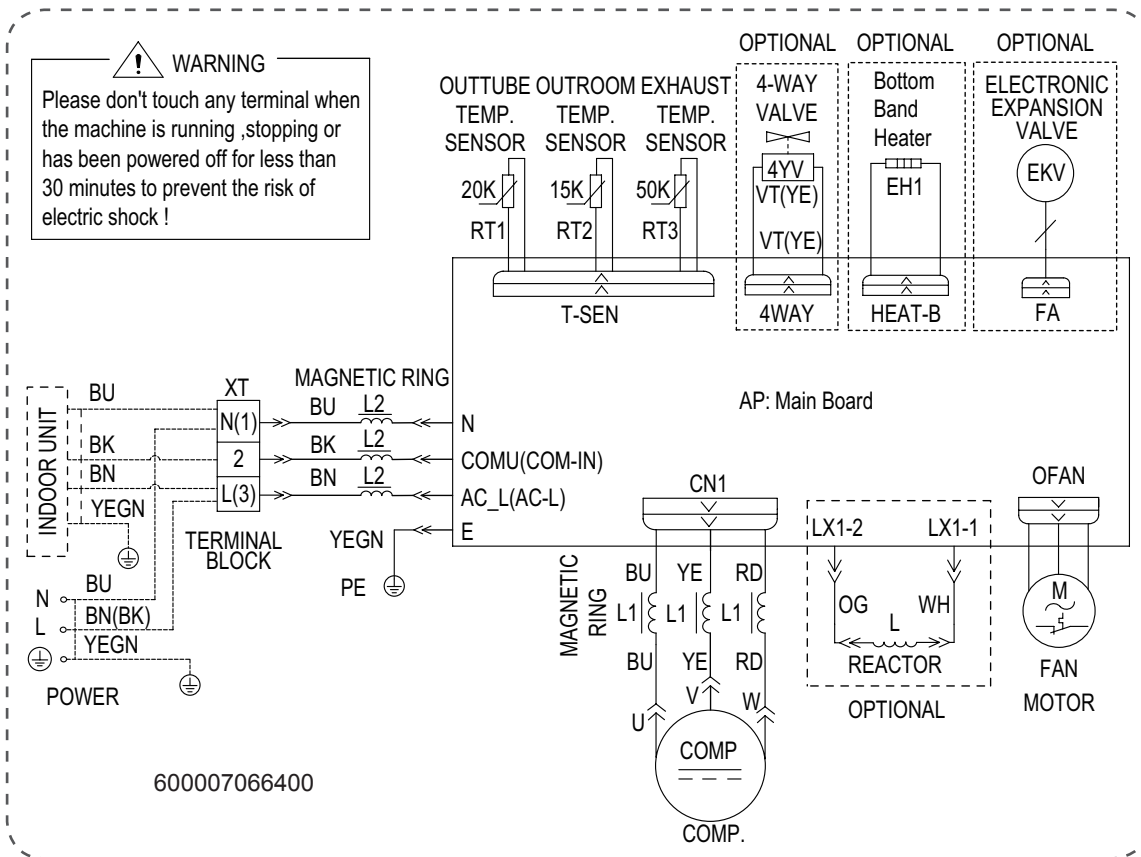
GWH12AWCXD-K6DNA1D/O





GWH12AFC-K6DNA2F/O(CB363W03605)



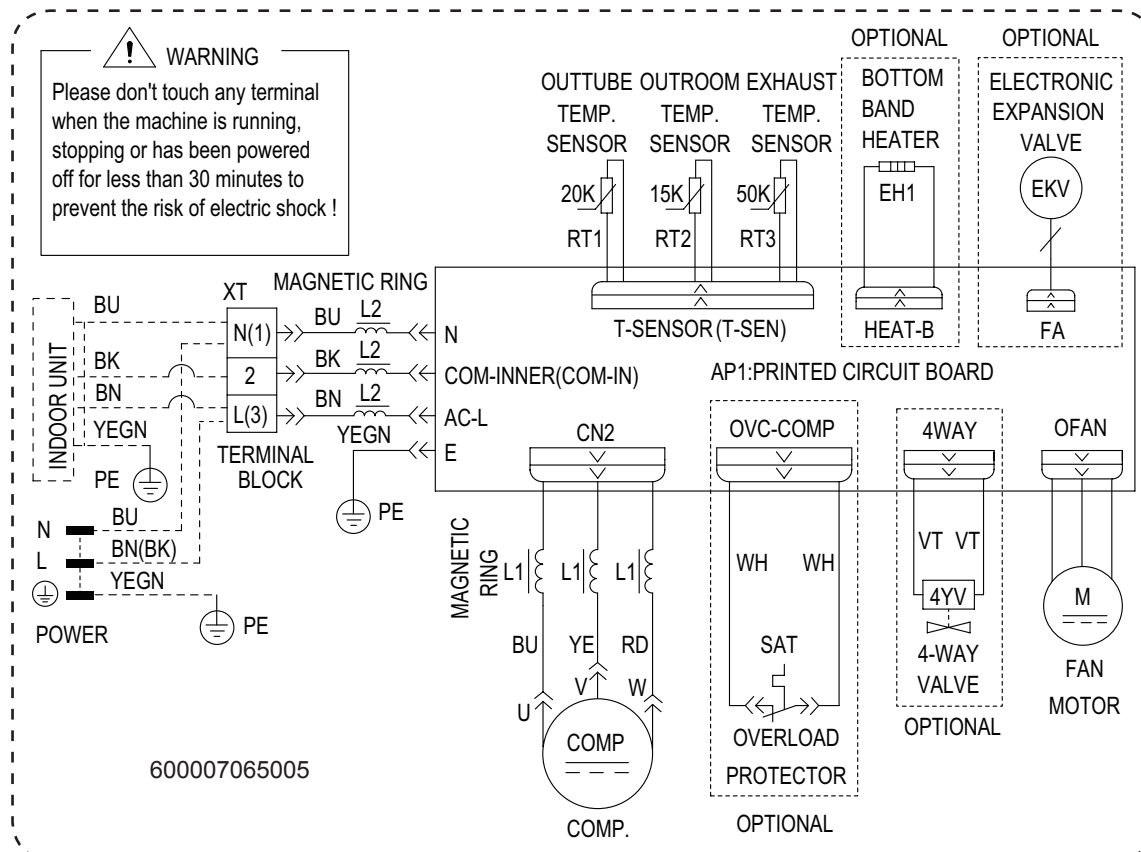


GWH18AGD-K6DNA1D/O
GWH24AGDXE-K6DNA1Z/O

GWH18AGD-K6DNA1E/O
GWH18AGDXB-K6DNA1Z/O

GWH24AGD-K6DNA1C/O
GWH18AGDXD-K6DNA1Z/O

GWH24AFE-K6DNA2I/O



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

5.2 PCB Printed Diagram

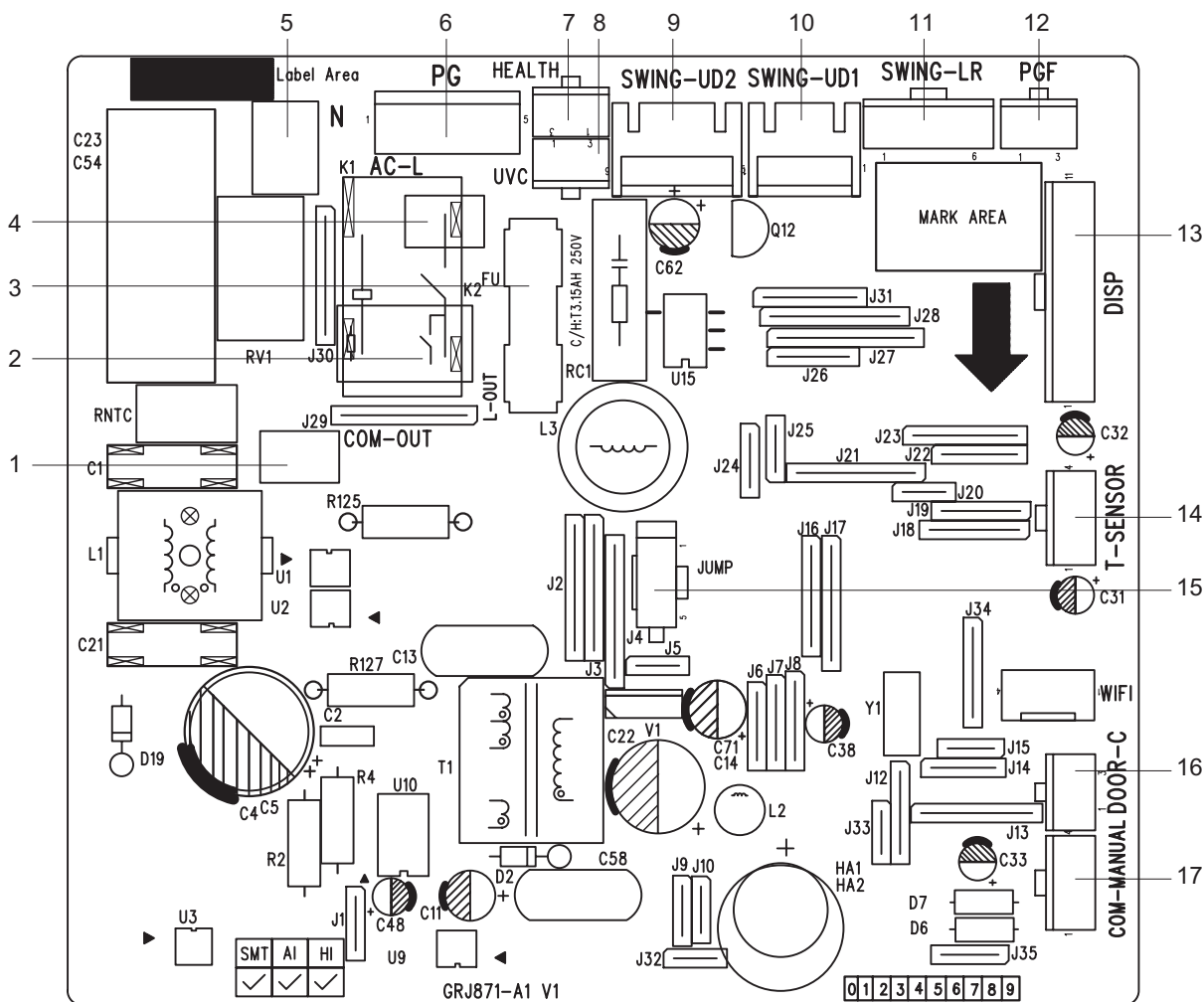
Indoor Unit

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GWH12AGBxB-K6DNA2A/I
GWH09AGBxB-K6DNA1E/I

GWH07AGAXA-K6DNA4A/I
GWH09AGAXB-K6DNA1C/I
GWH12AGBxB-K6DNA2C/I
GWH12AGBxB-K6DNA1F/I

GWH09AGAXB-K6DNA1B/I
GWH09AGBxB-K6DNA1A/I
GWH12AGBxB-K6DNA4C/I
GWH07AGA-K6DNA2A/I

GWH09AGAXB-K6DNA2B/I
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GWH12AGBxB-K6DNA4F/I



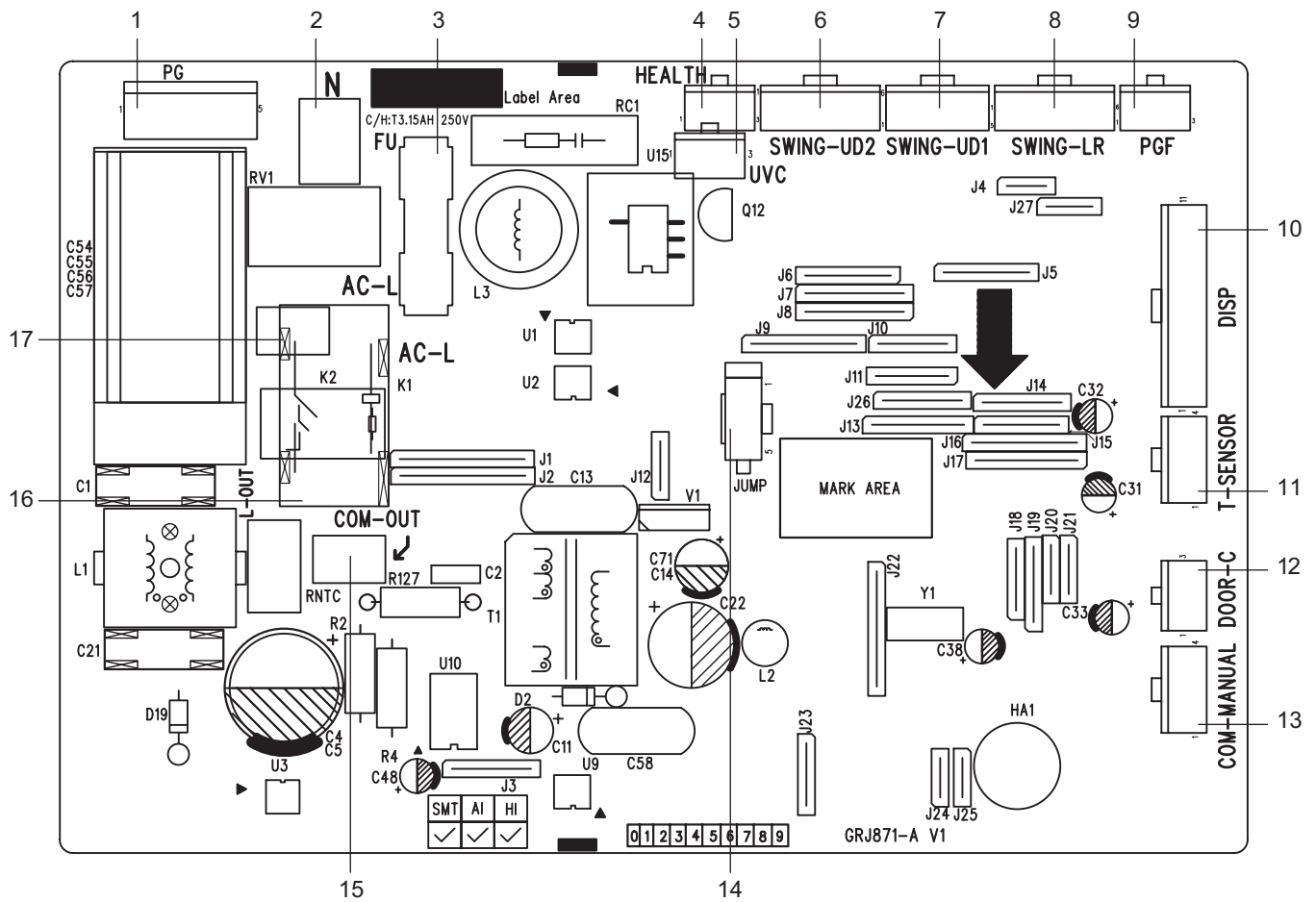
No.	Name	No.	Name
1	Communication Wire Insertion	10	Up & Down Swing Needle Stand 1
2	Live Wire Insertion (Outdoor unit)	11	Left & Right Swing Needle Stand
3	Fuse	12	PG Motor Feedback Needle Stand
4	Live Wire Insertion	13	Display Board Needle Stand
5	Neutral Wire Insertion	14	Temperature Sensor Tube Needle Stand
6	PG Motor Needle Stand	15	Jumper
7	Plasmacluster Ion Needle Stand	16	Door Control Needle Stand
8	Ultraviolet cleaning Needle Stand	17	Wired Controller Needle Stand
9	Up & Down Swing Needle Stand 2		

GWH09AGCXB-K6DNA4F/I
GWH18AGDXB-K6DNA2D/I
GWH18AGDXB-K6DNA1Z/I

GWH12AGC-K6DNA4F/I
GWH24AGDXE-K6DNA2C/I
GWH18AGD-K6DNA1D/I

GWH12AGCXB-K6DNA1A/I
GWH24AGD-K6DNA4C/I
GWH12AGC-K6DNA1F/I

GWH18AGD-K6DNA4D/I
GWH24AGDXE-K6DNA1Z/I
GWH18AGDXB-K6DNA2Z/I



No.	Name	No.	Name
1	PG Motor Needle Stand	10	Display Board Needle Stand
2	Neutral Wire Insertion	11	Temperature Sensor Needle Stand
3	Fuse	12	Door Control Needle Stand
4	Health Function Needle Stand	13	Wired Controller Needle Stand
5	Ultraviolet cleaning Needle Stand	14	Jumper Needle Stand
6	Up & Down Swing Needle Stand 2	15	Communication Wire Insertion
7	Up & Down Swing Needle Stand 1	16	Live Wire Insertion (outdoor unit)
8	Left & Right Swing Needle Stand	17	Live Wire Insertion
9	PG Motor Feedback Needle Stand		

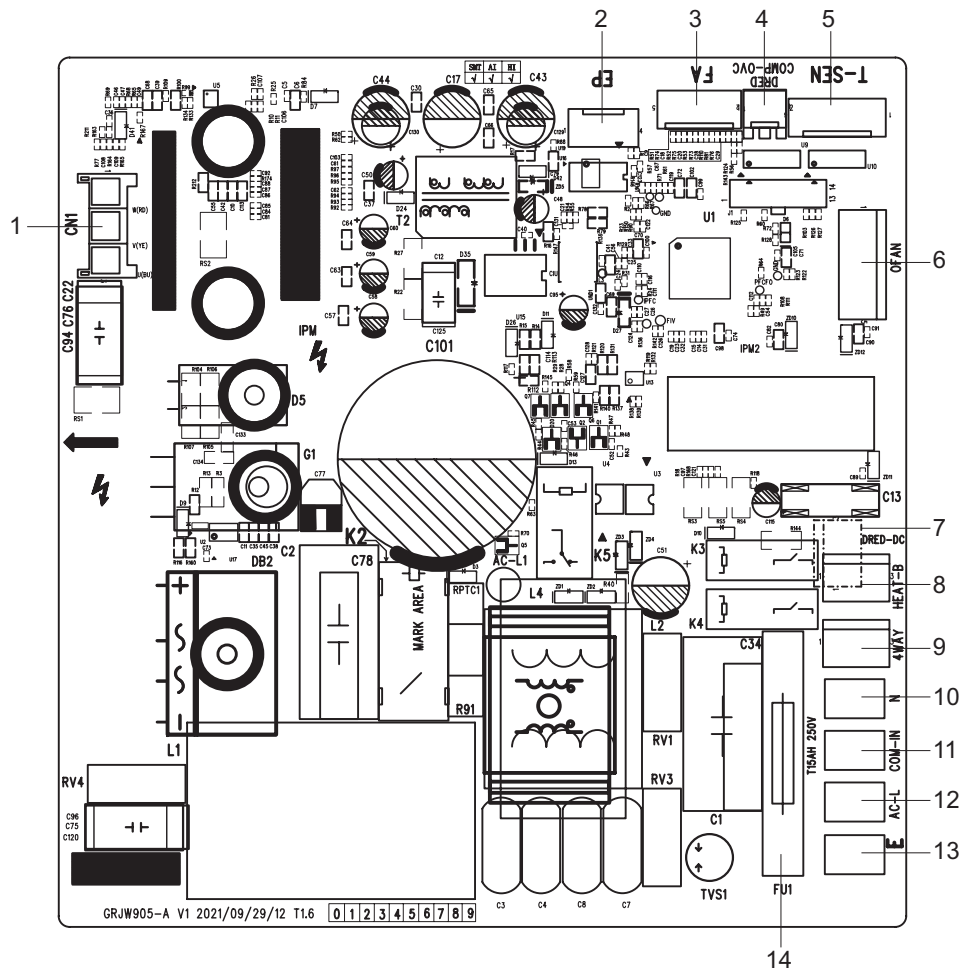
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GWH09AGCXB-K6DNA2H/I
GWH24AGE-K6DNA1A/I
GWH18AGDXD-K6DNA4Z/I



● ● ● ● ● ● ● Technical Information

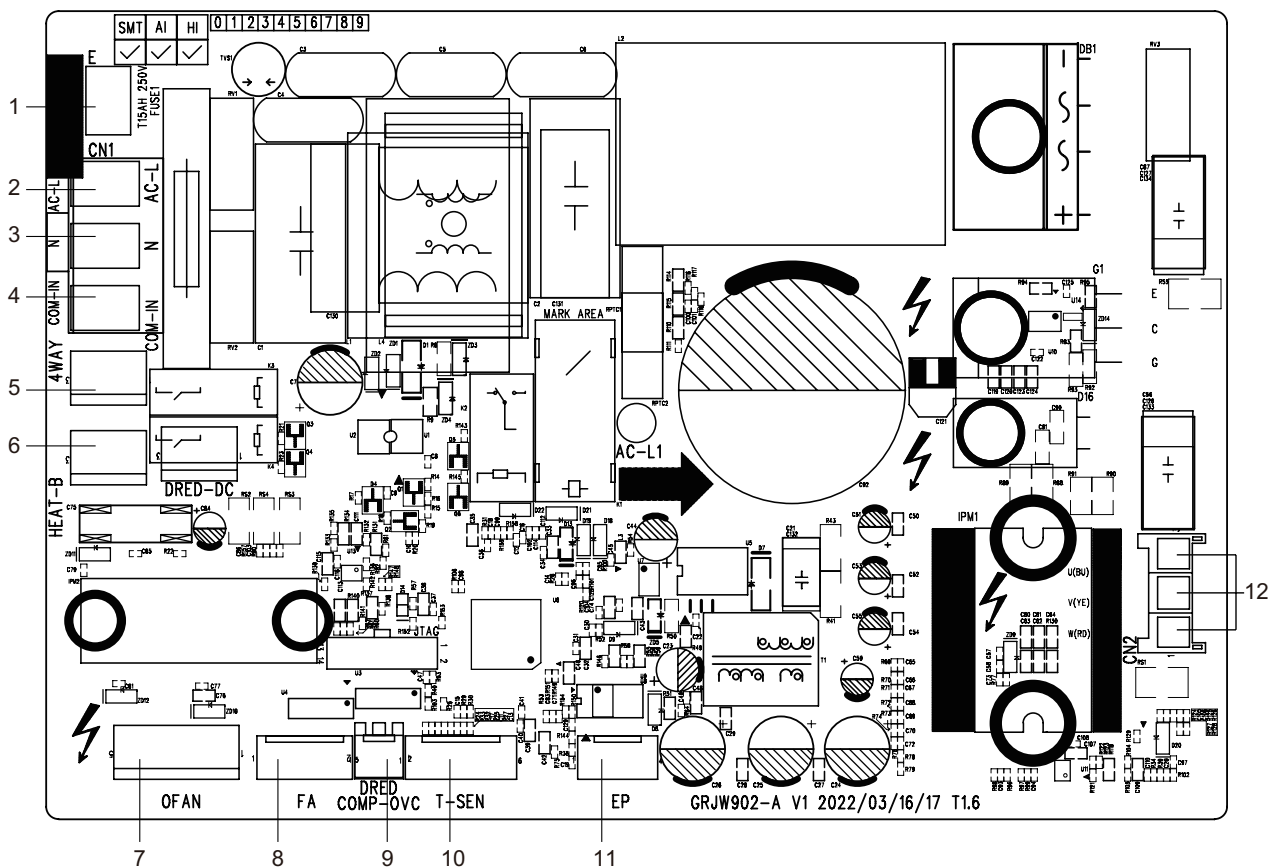
Outdoor Unit

GWH07AGA-K6DNA1A/O

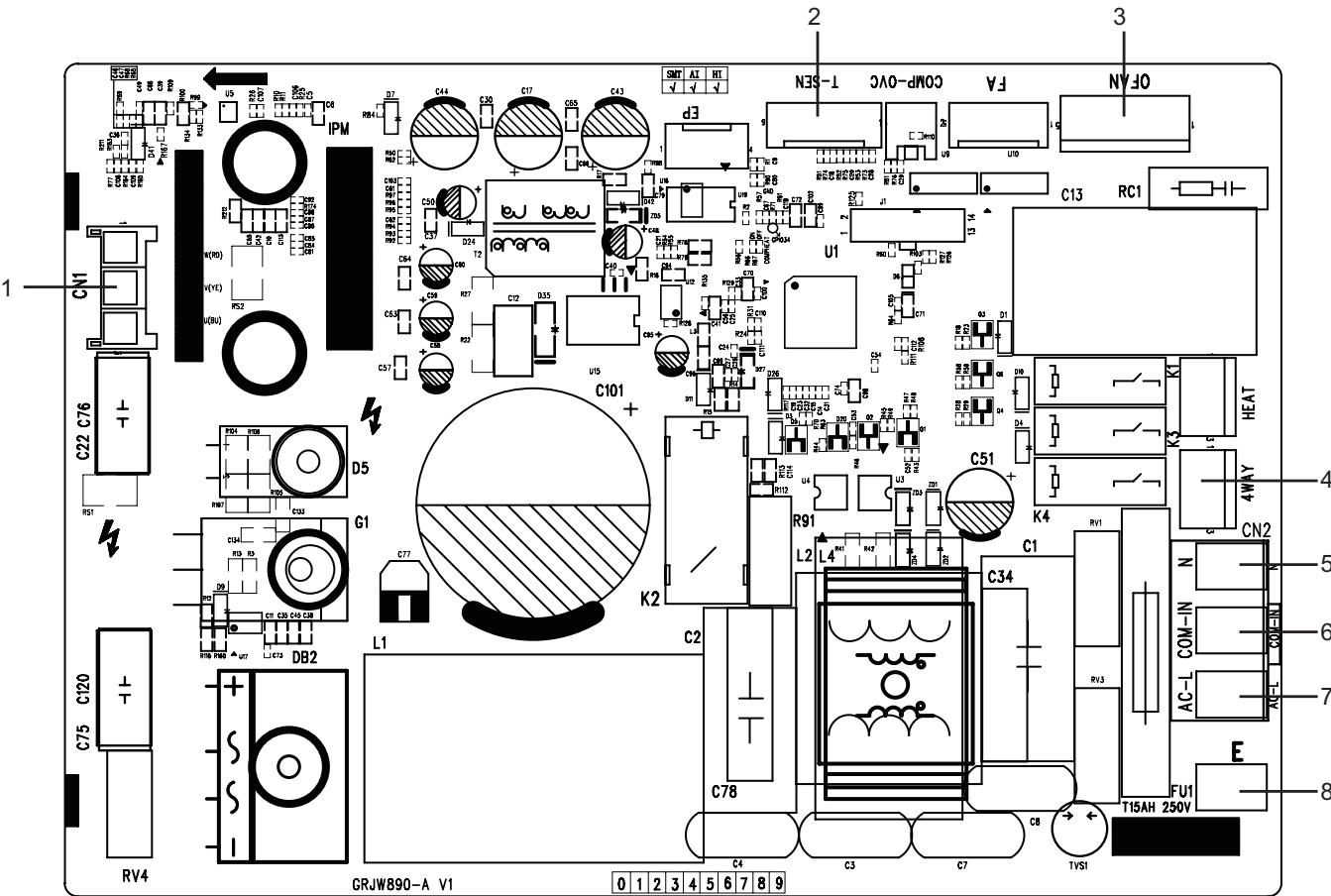


No. Name		No. Name	
1	Compressor Wire Insertion	8	Chassis Electric Heating Belt Needle Stand
2	EEP Flash Drive Needle Stand	9	Four-way Valve Needle Stand
3	Electronic Expansion Valve Needle Stand	10	Neutral Wire Insertion
4	Compressor Overload Needle Stand	11	Communication Wire Insertion
5	Temperature Sensor Needle Stand	12	Live Wire Insertion
6	Outdoor Fan Needle Stand	13	Earthing Wire Insertion
7	DRED Needle Stand	14	Fuse

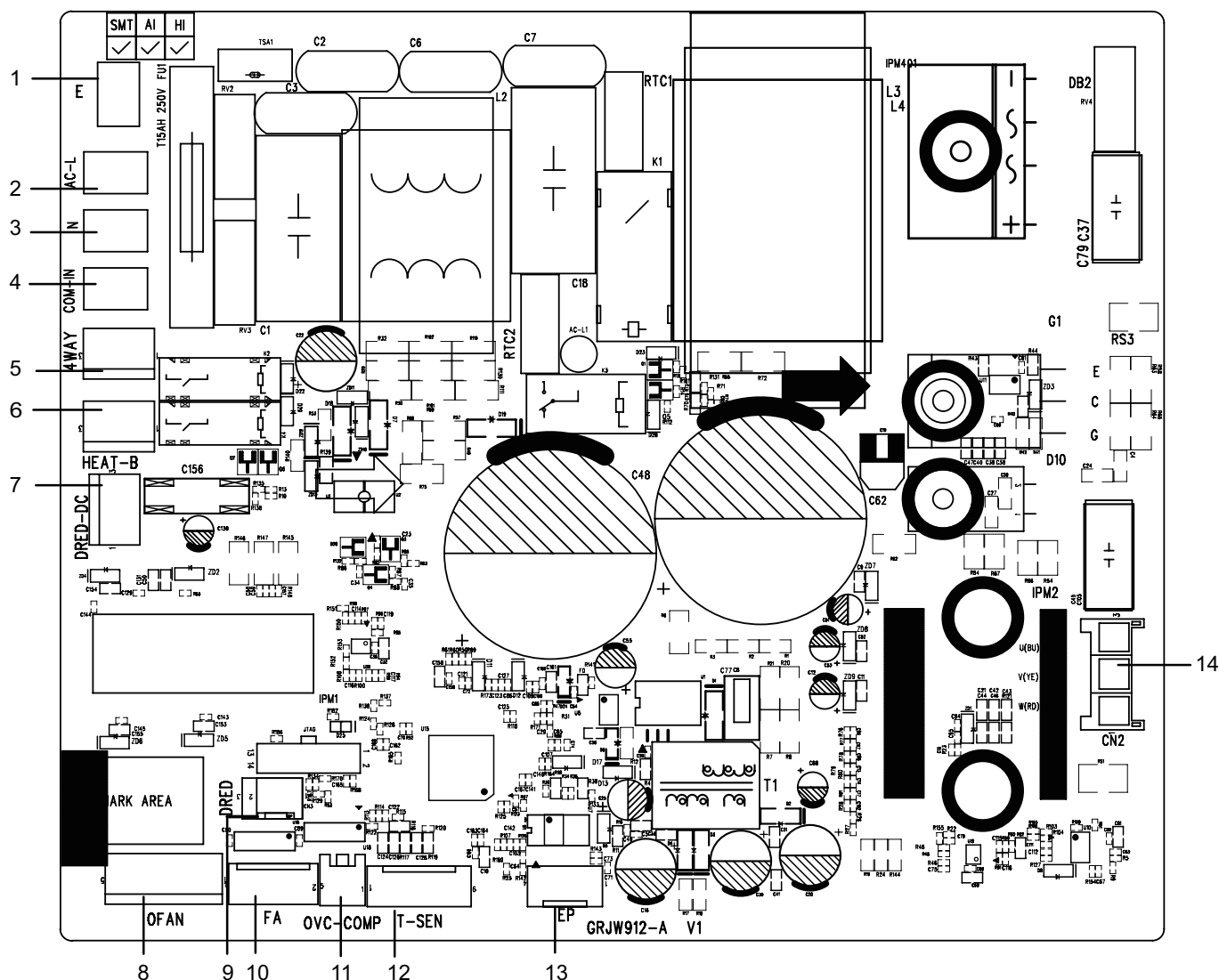
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 GWH12AFC-K6DNA2F/O GWH12AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA1Z/O GWH12AGCXB-K6DNA1A/O
 GWH18AGD-K6DNA1D/O GWH09ACCXB-K6DNA1G/O GWH12ATCXB-K6DNA4G/O GWH18AGDXB-K6DNA1Z/O
 GWH09AGBXB-K6DNA1E/O GWH12AWBXB-K6DNA3F/O GWH09AGCXB-K6DNA1H/O GWH12AWCXD-K6DNA1D/
 O



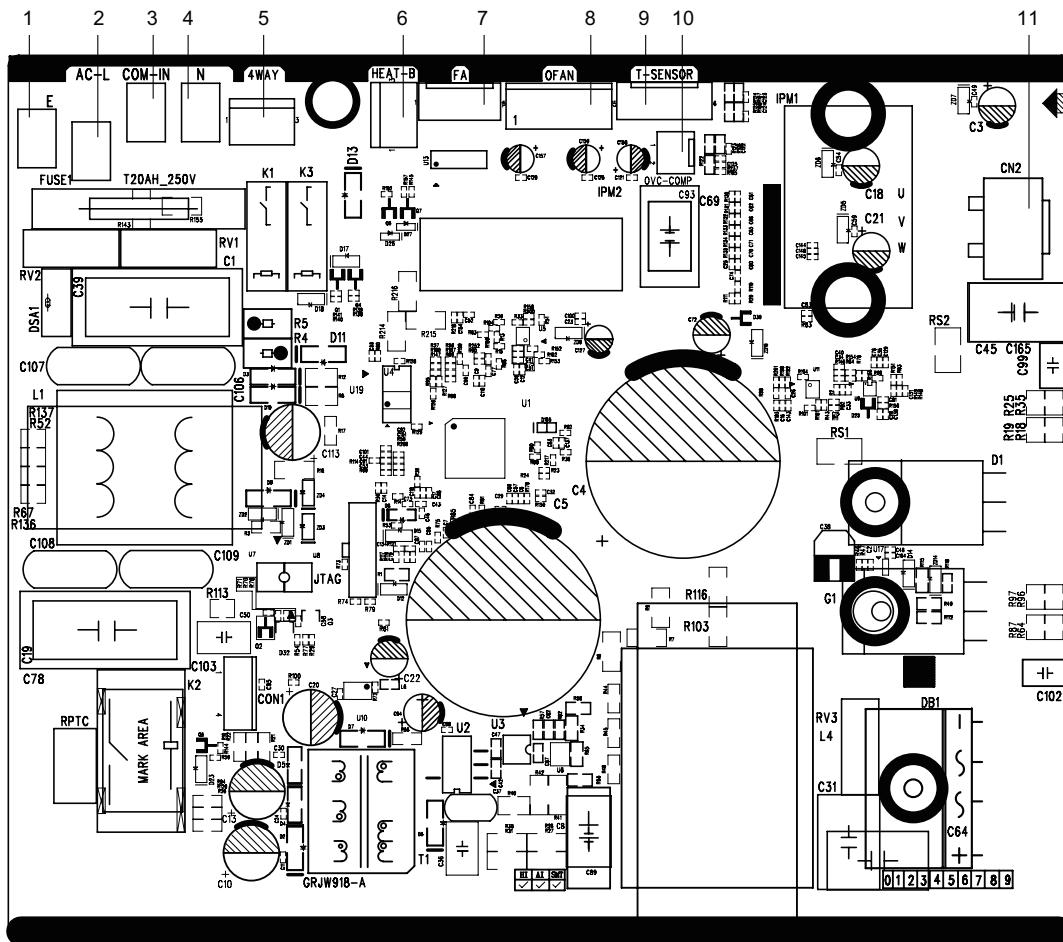
No.	Name	No.	Name
1	Earthing Wire Insertion	7	Outdoor Fan Needle Stand
2	Live Wire Insertion	8	Electronic Expansion Valve Needle Stand
3	Neutral Wire Insertion	9	Compressor Overload Needle Stand
4	Communication Wire Insertion	10	Temperature Sensor Needle Stand
5	Four-way Valve Needle Stand	11	EEP Flash Drive Needle Stand
6	Chassis Electric Heating Belt Needle Stand	12	Compressor Wire Insertion



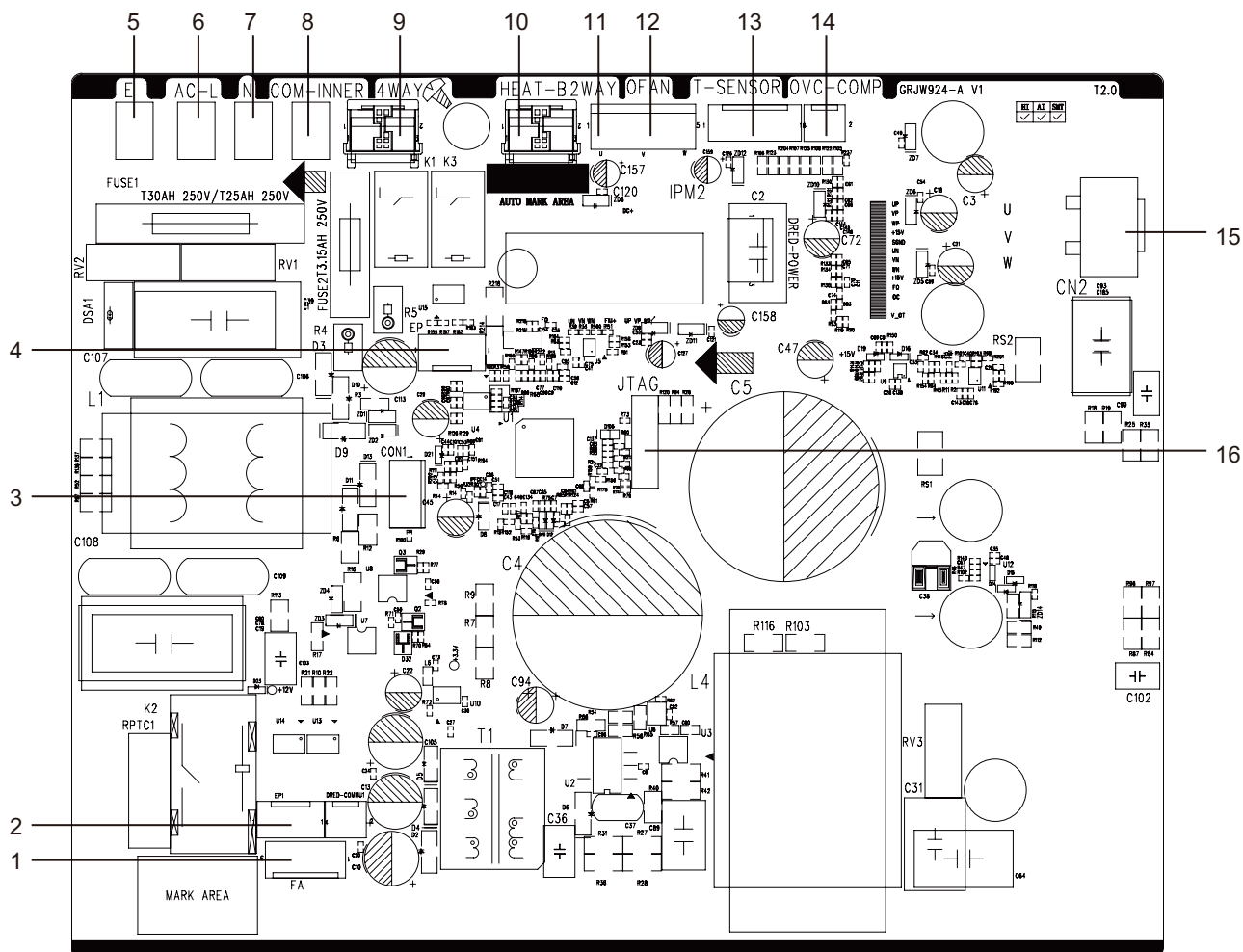
No.	Name	No.	Name
1	Compressor Wire Insertion	5	Neutral Wire Insertion
2	Temperature Sensor Needle Stand	6	Communication Wire Insertion
3	Outdoor Fan Needle Stand	7	Live Wire Insertion
4	Four-way Valve Needle Stand	8	Earthing Wire Insertion



No.	Name	No.	Name
1	Earthing Wire Insertion	8	Outdoor Fan Needle Stand
2	Live Wire Insertion	9	DRED Needle Stand (Reserved)
3	Neutral Wire Insertion	10	Electronic Expansion Valve Needle Stand
4	Communication Wire Insertion	11	Compressor Overload Needle Stand
5	Four-way Valve Needle Stand	12	Temperature Sensor Needle Stand
6	Chassis Electric Heating Belt Needle Stand	13	EEP Flash Drive Needle Stand
7	DRED-DC (Reserved)	14	Compressor Needle Stand



No.	Name	No.	Name
1	Earthing Wire Insertion	7	Electronic Expansion Valve Needle Stand
2	Live Wire Insertion	8	Outdoor Fan Needle Stand
3	Communication Wire Insertion	9	Temperature Sensor Needle Stand
4	Neutral Wire Insertion	10	Compressor Overload Needle Stand
5	Four-way Valve Needle Stand	11	Compressor Needle Stand
6	Chassis Electric Heating Belt Needle Stand		

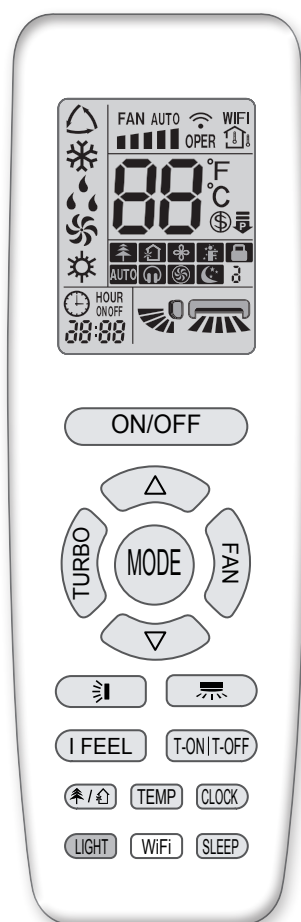


No.	Name	No.	Name
1	Electronic Expansion Valve Needle Stand	9	Four-way Valve Needle Stand
2	EEP Flash Drive Needle Stand 1(Reserved)	10	Chassis Electric Heating Belt Needle Stand
3	Computer Monitor Needle Stand	11	Four-way Valve Needle Stand
4	EEP Flash Drive Needle Stand	12	Brushless DC Motor Needle Stand
5	Earthing Wire Insertion	13	Temperature Sensor Needle Stand
6	Live Wire Insertion	14	Compressor Overload Needle Stand
7	Neutral Wire Insertion	15	Compressor Wire Insertion
8	Communication Wire Insertion	16	Program Debugging Needle Stand

6. Function and Control

6.1 Remote Controller Introduction for YAP1F7(WiFi)

Buttons on remote controller



Introduction for icons on display screen

	I feel
	Set fan speed
	Turbo mode
	Send signal
	Auto mode
	Cool mode
	Dry mode
	Fan mode
	Heat mode
	Sleep mode
	8°C heating function
	Power limiting operation
	Health mode
	Scavenging function
	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
	Left & right swing
	Up & down swing
	Child lock
	Quiet

Introduction for buttons on remote controller

NOTE:

1. 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.
2. After putting through the power, the air conditioner will give out a sound. Operation indicator "ON" is ON (red indicator, the colour is different for different models). After that, you can operate the air conditioner by using remote controller.
3. 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.
4. As for the models with functions of WiFi or wired controller, the indoor unit must has 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.
5. 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.

ON/OFF button



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





MODE button





Press this button to select your required operation mode :



- When selecting auto mode, air conditioner will operate automatically according to the ex-factory setting. 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 heat mode. Press "  " or "  " button to adjust set temperature. 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 heat mode, indoor unit will delay 1~5 minutes to blow air (Actual delay time depends on indoor ambient temperature).
- Set temperature range from remote controller: 16~30°C (61~86°F).
- Under auto mode, temperature can be displayed; Under auto mode, set temperature can be adjusted.
- This mode indicator is not available for some models.



FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO,  ,  ,  ,  ,  ,  , then back to Auto.







NOTE:

- 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 Hold 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 " 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.

TURBO button

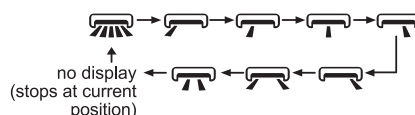
Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. "  " icon is displayed on remote controller. Press this button again to exit turbo function and "  " icon will disappear. If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temperature approaches the preset temperature as soon as possible.

△ / ▽ button



- 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.
- When setting T-ON, T-OFF or CLOCK, press "  " or "  " button to adjust time. (Refer to CLOCK, T-ON, T-OFF buttons)

◀ ▶ button

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

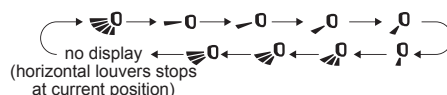








NOTE:

- 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 left and right swing 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 is only available for some models.





☞ button

Press this button can select left & right 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.

NOTE:









- "  ,  ,  " may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.
- Press this button continuously for more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit present position of guide louver will be kept immediately.
- Under up and down swing 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/T-OFF button

- 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 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 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 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.

SLEEP button

- Press this button, can select Sleep 1 ( 1), Sleep 2 ( 2), Sleep 3 ( 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°C, 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 "8hours"), 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.

- Sleep3- 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.

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.

- 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.

- This function is applicable to partial of models.

LIGHT button

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 button

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



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-factory setting to reach to the best energy-saving effect. Press "TEMP" and "CLOCK" buttons simultaneously again to exit energysaving 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 "🔥" 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:

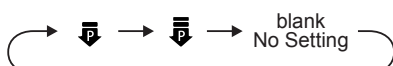
- The auto clean function can only work under normal ambient temperature. If the room is dusty, clean it once a month; if not, clean it once every three months. After the auto clean function is turned on, you can leave the room. When auto clean is finished, the air conditioner will enter standby status.

- This function is only available for some models.

🔒 function

Press "MODE" and "SLEEP" buttons simultaneously to start 🔒 function.

🔒 function is for limiting power of the whole unit. Press this button, the remote controller will circularly display as the following:



- Maximum power limited under the 🔒 mode is lower than that of mode.

- If you want to cancel the power limiting function, press the

button 🔒 till the icon in remote controller is not displayed.

- When the remote controller is turned off, power limiting function is cancelled. If you want to activate the function, please repress this button.

- If the current power is lower than the maximum power of 🔒 mode, then the power will not be limited after entering into such mode.

- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.

NOTE:

- 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).

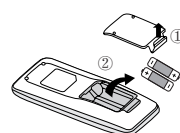


Fig.1

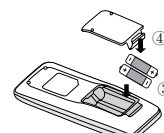


Fig.2

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.

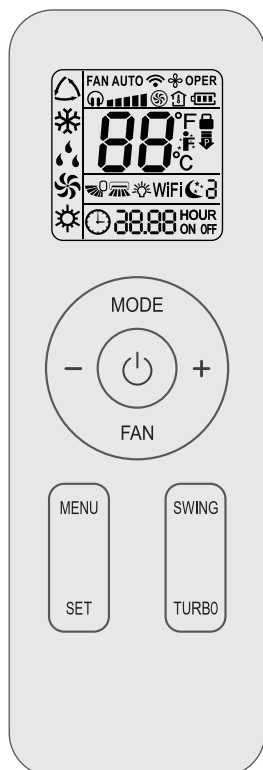
- Replace new batteries of the same model when replacement is required.

- 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.

6.2 Remote Controller Introduction for YAY1F

Buttons on remote controller



NOTE:

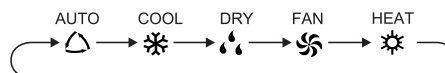
- This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.
- After putting through the power, the air 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.

⏻ button

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

MODE button

Press this button to select your required operation mode:



Introduction for icons on display screen

	I feel
	Set fan speed
	Turbo mode
	Send signal
	Auto mode
	Cool mode
	Dry mode
	Fan mode
	Heat mode
	Sleep mode
	Light
	Power limiting operation
	X-FAN function
	Indoor ambient temp.
	Clock
	Set temperature
	WiFi function
	Set time
	TIMER ON / TIMER OFF
	Left & right swing
	Up & down swing
	Child lock
	Quiet

- When selecting auto mode, air conditioner will operate automatically according to ambient temperature. Set temperature can't be adjusted and will not be displayed as well. Press "FAN" button can adjust fan speed. Press "SWING" button can adjust fan blowing angle.

- When 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 "SWING" 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 "SWING" 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 "SWING" button to adjust fan blowing angle.







- When selecting heat mode, the air conditioner operates under heat mode. Press " + " or " - " button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "SWING" button to adjust fan blowing angle.

NOTE:

- For preventing cold air, after starting up heat mode, indoor unit will delay 1~5 minutes to blow air (Actual delay time depends on indoor ambient temperature).

- Set temperature range from remote controller: 16~30°C (61~86°F).
- This mode indicator is not available for some models.
- Cooling only unit won't receive heat mode signal. If setting heat mode with remote controller, press "⏻" button can't start up the unit.

FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO, , , , ,  to  then back to Auto.

NOTE:

- 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.

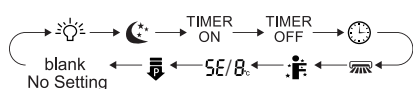
- / + button

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 TIMER ON, TIMER OFF or CLOCK, press " + " or " - " button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF functions).

MENU button




Press this button to select submenu function and then press "SET" button to set the function status of submenu. The submenu can be selected circularly as follows:







NOTE:

- Some menu's function may be unavailable under different models.

Light function

When selecting light function, light icon "  " flashes for 5s; press "SET" button within 5s to turn off display light on indoor unit and "  " icon on remote controller disappears. Press "SET" button again within 5s to turn on display light and "  " icon is displayed.

Sleep function

When selecting sleeping function, sleeping icon "  " flashes for 5s; press "SET" button within 5s can select Sleep 1 (), Sleep 2 (), Sleep 3 () and cancel Sleep circularly.

- Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1°C, two hours, setting temperature increased 2°C, 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°C, two hours, setting temperature will decrease 2°C, 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 "8hours"), 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.

- Sleep3- 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 "⏻" button, "MODE" button, the sleep curve setting or enquiry status will quit similarly.

TIMER ON function

TIMER ON function can set the time for timer on. Under TIMER ON function status, "⏻" 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. Hold "+" or "-" button, 2s later, the time will change quickly until reaching your required time. Press "SET" button to confirm it within 5S. The word "ON" will stop blinking.

Cancel TIMER ON: Press "MENU" button to TIMER ON function and the characters "ON" flashes on the remote controller; press "SET" button until the characters "ON" disappears.

TIMER OFF function

TIMER OFF function can set the time for timer off. Under TIMER OFF function status, "⏻" 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.

Hold "+" or "-" button, 2s later, the time will change quickly until reaching your required time, press "SET" button to confirm it within 5S. The word "OFF" will stop blinking.

Cancel TIMER OFF: Press "MENU" button to TIMER OFF function and the characters "OFF" flashes on the remote controller; press "SET" button until the characters "OFF" disappears.

CLOCK function

CLOCK function can set clock time. Under CLOCK function status, "⏻" 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 min. If hold "+" or "-" button, 2s later, time will change quickly.

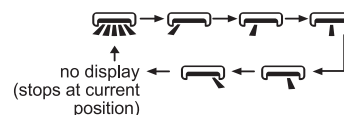
Release this button when reaching your required time, press "SET" button to confirm it within 5S. The "⏻" icon will stop blinking.

Left & right swing function

When selecting left & right swing function, left & right swing icon "↔" flashes for 5s; press "SET" button within 5s to select left &

right swing angle.

Fan blow angle can be selected circularly as below:



NOTE:

- The function is only available for some models.

SE Energy-saving function

Under cooling mode, when selecting energy-saving function, energy-saving function icon "SE" flashes for 5s; press "SET" button within 5s to turn on 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 ex-factory setting to reach to the best energy-saving effect. Press "SET" button again to exit energy-saving function.

8°C heating function

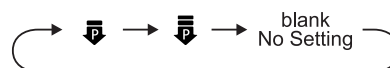
Under heating mode, when selecting 8°C-heating function, 8°C-heating icon "8°C" flashes for 5s; press "SET" button within 5s to turn on or turn off 8°C-heating. When 8°C-heating is started up, "8°C" will be shown on remote controller, and the air conditioner keep the heating status at 8°C. Press "SET" button again to exit 8°C-heating function.

NOTE:

Under °F temperature display, the remote controller will display 46°F heating.


Power limiting function

Power limiting function is for limiting the power of the whole unit. When selecting power limiting function, power limiting icon "⏻" flashes for 5s; press "SET" button within 5s and the remote controller will circularly display as follows:



- Maximum power limited under the ⏻ mode is lower than that of ⏻ mode.
- If you want to cancel the power limiting function, press the button ⏻ till the icon in remote controller is not displayed.
- When the remote controller is turned off, power limiting function is cancelled. If you want to activate the function, please repress

this button.

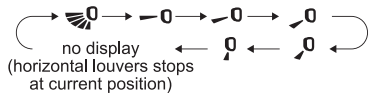
- If the current power is lower than the maximum power of  mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.









NOTE:

- The function is only available for some models.



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.
- Hold " " button above 2s to set your required swing angle. When reaching your required angle, release the button.

NOTE:





- Press this button continuously for more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit present position of guide louver will be kept immediately.
- Under up and down swing 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.

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. 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.

Function introduction for combination buttons

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.


WiFi function

Press "MODE" and "TURBO" button simultaneously to turn on or turn off WiFi function. When WiFi function is turned on, the "WiFi" icon will be displayed on remote controller; Long press "MODE" and "TURBO" buttons simultaneously for 10s, remote controller will send WiFi reset code and then the WiFi function will be turned on. WiFi function is defaulted ON after energization of the remote controller.

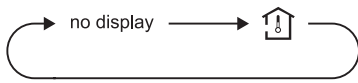
NOTE:

- This function is only available for some models.

Ambient temperature display function

Press "SWING" and "SET" buttons simultaneously, you can see indoor ambient temperature on indoor unit's displayer and the " " icon will be displayed on remote controller. The setting on remote controller is

selected circularly as below:

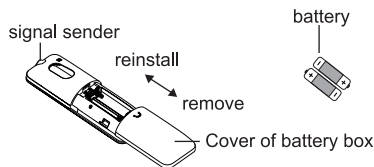


Adjustable temperature under auto mode

Mode and **Turbo** **About WIFI function**

The remote controller defaulted that the set temperature can't be adjusted and it won't be displayed under AUTO mode; when pressing "+" and "SET" buttons simultaneously under off status for consecutive 5s, the set temperature can be adjusted under AUTO mode. After setting is succeeded, the set temperature on the remote controller flashes for 3 times.

Replacement of batteries in remote controller



1. Press the back side of remote controller marked with "😊", as shown in the fig, and then push out the cover of battery box along the arrow direction.
2. Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" and "-" polar are correct.
3. Reinstall the cover of battery box.

NOTE:

- 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.

6.3 Brief Description of Models and Functions

● Indoor Unit

1. Basic function of system

(1) Cooling mode

(1) Under this mode, fan and swing operates at setting status. Temperature setting range is 16~30°C.

(2) During malfunction of outdoor unit or the unit is stopped because of protection, indoor unit keeps original operation status.

(2) Drying mode

(1) Under this mode, fan operates at low speed and swing operates at setting status. Temperature setting range is 16~30°C.

(2) During malfunction of outdoor unit or the unit is stopped because of protection, indoor unit keeps original operation status.

(3) Protection status is same as that under cooling mode.

(4) Sleep function is not available for drying mode.

(3) Heating mode

(1) Under this mode, Temperature setting range is 16~30°C.

(2) Working condition and process for heating mode:

When turn on the unit under heating mode, indoor unit enters into cold air prevention status. When the unit is stopped or at OFF status, and indoor unit has been started up just now, the unit enters into residual heat-blowing status.

(4) Working method for AUTO mode:

1. Working condition and process for AUTO mode:

a. Under AUTO mode, standard heating $T_{\text{preset}}=20^{\circ}\text{C}$ and standard cooling $T_{\text{preset}}=25^{\circ}\text{C}$. The unit will switch mode automatically according to ambient temperature.

2. Protection function

a. During cooling operation, protection function is same as that under cooling mode.

b. During heating operation, protection function is same as that under heating mode.

3. Display: Set temperature is the set value under each condition. Ambient temperature is $(T_{\text{amb.}} - T_{\text{compensation}})$ for heat pump unit and $T_{\text{amb.}}$ for cooling only unit.

4. If there's I feel function, $T_{\text{compensation}}$ is 0. Others are same as above.

(5) Fan mode

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.

2. Other control

(1) Buzzer

Upon energization or availablely operating the unit or remote controller, the buzzer will give out a beep.

(2) Auto button

If press this auto button when turning off the unit, the complete

unit will operate at auto mode. Indoor fan operates at auto fan speed and swing function is turned on. Press this auto button at ON status to turn off the unit.

(3) Auto fan

Heating mode: During auto heating mode or normal heating mode, auto fan speed will adjust the fan speed automatically according to ambient temperature and set temperature.

(4) Sleep

After setting sleep function for a period of time, system will adjust set temperature automatically.

(5) Timer function:

General timer and clock timer functions are compatible by equipping remote controller with different functions.

(6) Memory function

memorize compensation temperature, off-peak energization value.

Memory content: mode, up&down swing, light, set temperature, set fan speed, general timer (clock timer can't be memorized).

After power recovery, the unit will be turned on automatically according to memory content.

(7) Health function

During operation of indoor fan, set health function by remote controller. Turn off the unit will also turn off health function.

Turn on the unit by pressing auto button, and the health is defaulted ON.

Once compressor is started, it won't stop within 6 mins according to the change of room temp.

a. Auto mode

① Operation condition and process for auto mode

Under auto mode, the system will automatically select operation mode (cooling, heating, and fan) according to indoor ambient temperature. There will be 30s delayed for protection between mode switchover.

◆ When $T_{\text{amb.}} \geq 26^{\circ}\text{C}$, unit will be in cooling mode. Ex-factory set temperature is 25°C

◆ Cooling and heating unit: When $T_{\text{amb.}} \leq (19^{\circ}\text{C} + T_{\text{compensation}})$, unit will be in heating mode $T_{\text{preset}}=20^{\circ}\text{C}$.

◆ Cooling only unit: When $T_{\text{amb.}} \leq 22^{\circ}\text{C}$ (or 72°F), unit will be in fan mode $T_{\text{preset}}=25^{\circ}\text{C}$.

◆ For cooling and heating unit under condition that $(19^{\circ}\text{C} + T_{\text{compensation}}) < T_{\text{amb.}} < 26^{\circ}\text{C}$ (For cooling only unit under condition that $22^{\circ}\text{C} < T_{\text{amb.}} < 26^{\circ}\text{C}$), when unit is initially turned on in auto mode, it will operate according to auto fan mode. When unit is changed to auto mode from other modes, it will maintain its previous working status (If auto mode is turned on from drying mode, unit will operate according to auto fan mode).

② Protection function is same as that under each mode.

b. Cooling mode

① Operation condition and process for cooling mode

◆ When $T_{amb.} \geq T_{set} + 1^{\circ}\text{C}$, the system operates under cooling mode. In this case, the compressor, the ODU fan motor and the IDU fan motor operates at set speed.

◆ When $T_{amb.} \leq T_{set} - 1^{\circ}\text{C}$, the compressor and the ODU fan motor stop, while the IDU fan motor operates at set speed.

◆ When $T_{set} - 1^{\circ}\text{C} < T_{amb.} < T_{set} + 1^{\circ}\text{C}$, the system will maintain its previous operation status.

In cooling mode, the 4-way valve is de-energized (4-way valve is not available for cooling only unit). Temperature setting range is $16 \sim 30^{\circ}\text{C}$.

(8) I feel control mode

After controller received I feel control signal and ambient temperature sent by remote controller, controller will work according to the ambient temperature sent by remote controller.

(9) Entry condition for compulsory defrosting function

When turn on the unit under heating mode and set temperature is 16°C (or 16.5°C by remote controller), press “ Δ , ∇ , Δ , ∇ , Δ , ∇ (+, -, +, -, +, -)” button successively within 5s and then indoor unit will enter into compulsory defrosting setting status:

(1) If there's only indoor units controller, it enters into indoor normal defrosting mode.

(2) If there's indoor units controller and outdoor units controller, indoor unit will send compulsory defrosting mode signal to outdoor unit and then outdoor unit will operate under normal defrosting mode. After indoor unit received the signal that outdoor unit has entered into defrosting status, indoor unit will cancel to send compulsory mode to outdoor unit. If outdoor unit hasn't received feedback signal from outdoor unit after 3min, indoor unit will also cancel to send compulsory defrosting signal.

(10) Refrigerant recovery function:

Enter into Freon recovery mode actively: Within 5min after energization, turn on the unit at 16°C under cooling mode, and press light button for 3 times within 3s to enter into Freon recovery mode. Fo is displayed and Freon recovery mode will be sent to outdoor unit.

(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 $16 \sim 30^{\circ}\text{C}$.

(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 $180 + T_s$ ($0 \leq T_s \leq 15$). 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.

(17) Auto cleaning function(only available on some models)

The automatic cleaning function of the indoor heat exchanger can be dedusted and sterilized by the condensation, frosting, defrosting and high temperature stages of the evaporator.

1. Under the power off, press and hold the “Internal Clean” button for 3 seconds while holding down the “MODE” and “FAN” buttons for 5 seconds to turn on the Auto Clean function. After the function is turned on, the air conditioner displays “CL”.

2. The evaporator will be rapidly cooled or heated during the automatic cleaning process. There may be noise or even noise. The noise generated by the plastic parts due to thermal expansion and contraction is normal. During the cleaning and disinfection process, the room temperature may increase slightly, please keep the room well ventilated.

Tips:

The automatic cleaning function can only be started under normal environmental conditions. If the indoor environment is easy to dust, it is recommended to clean it once a month. If the indoor environment is not so dusty, it is recommended to clean it once every three months. After turning on the automatic cleaning mode, the user can leave the room. When cleaning is complete, the unit will automatically enter standby mode.

● Outdoor Unit

1. Cooling mode:

Working condition and process of cooling mode:

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

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

③ When $T_{\text{preset}} - 2^{\circ}\text{C} < T_{\text{indoor ambient temperature}} < T_{\text{preset}}$, 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 $T_{\text{indoor ambient temperature}} > T_{\text{preset}}$, unit will be in drying mode. Outdoor fan and compressor start operation while indoor fan will operate at low fan speed.

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

③ When $T_{\text{indoor ambient temperature}} < T_{\text{preset}} - 2^{\circ}\text{C}$, 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 $T_{\text{preset}} - (T_{\text{indoor ambient temperature}} - T_{\text{compensation}}) \geq 1^{\circ}\text{C}$, unit enters into heating mode. Compressor, outdoor fan and 4-way valve start operation.

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

③ When $T_{\text{preset}} - (T_{\text{indoor ambient temperature}} - T_{\text{compensation}}) \leq -2^{\circ}\text{C}$, 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 $T_{\text{outdoor ambient temperature}} > 30^{\circ}\text{C}$, 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: $T_{\text{compensation}}$ is determined by IDU and ODU. If IDU controls the compensation temperature, then $T_{\text{compensation}}$ is determined according to the value sent by IDU to ODU; If IDU does not control the compensation temperature, then $T_{\text{compensation}}$ will default to 3°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°C (by remote controller), press “ Δ , ∇ , Δ , ∇ , Δ , ∇ (+,-,+,-,+,-)” 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

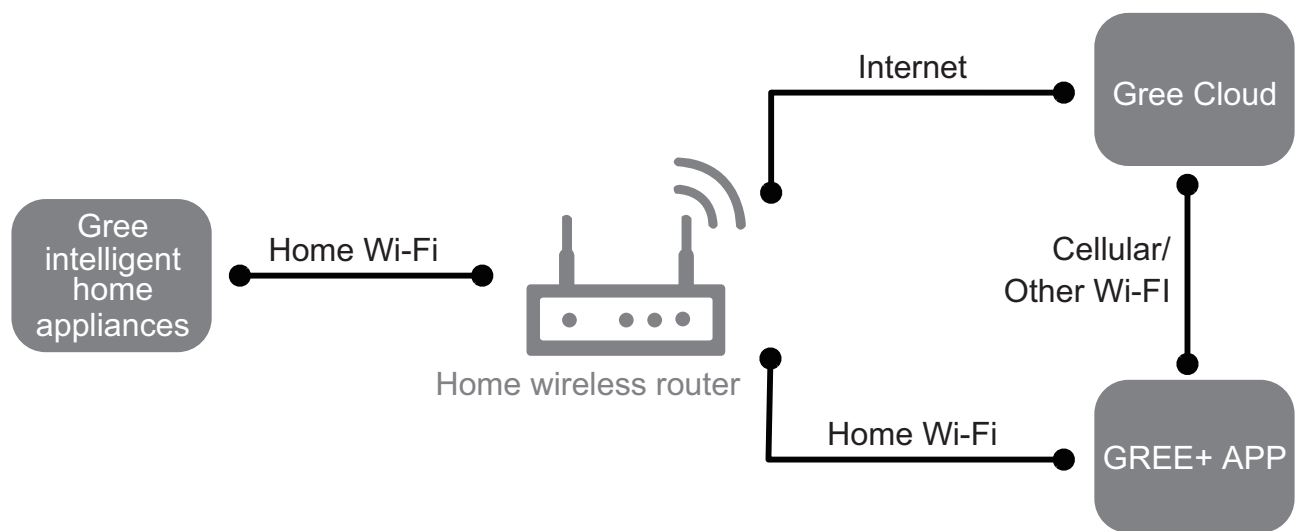
Set temperature is 8°C . Display board of IDU displays 8°C . Under this mode, “Cold air prevention” function is shielded.

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 theres 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.


6.4 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

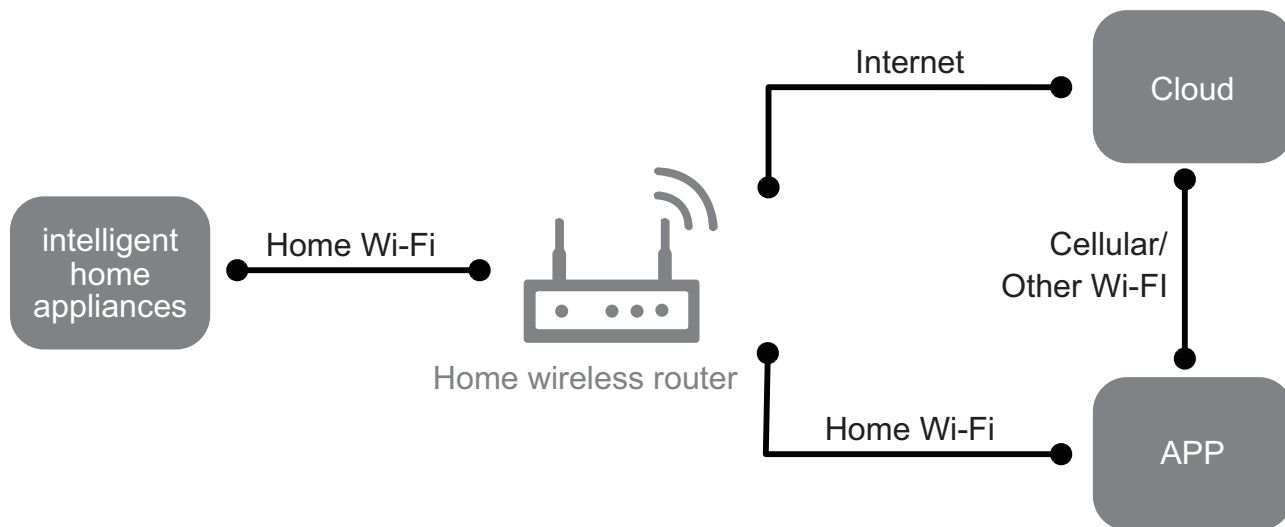


GREE+ App Download Linkage

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.

6.5 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 can't 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 can't 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; Don't 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. Wear 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.

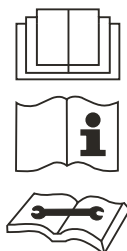
Safety Precautions for Refrigerant

- 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 inodorous. 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 ozoneosphere. 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 manufacture. 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 . (Please refer to table "a" in section of "Safety operation of flammable refrigerant" for space X.) Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants may not contain an odour. Read specialist's manual.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Hereby, Our company, declares that this Air Conditioner is in compliance with the essential requirement and other relevant provisions of RE Directive 2014/53/EU. A copy of the full DoC is attached. Wireless frequency range: 2412MHz - 2472MHz
Maximum Transmit Power: 18dBm



R32: 675

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste throughout the EU. To prevent possible harm to the environment or human health.

From uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

If it needs to install, move or maintain the air conditioner, please contact dealer or local service center to conduct it at first. Air conditioner must be installed, moved or maintained by appointed unit. Otherwise, it may cause serious damage or personal injury or death.

Safety Operation of Flammable Refrigerant

1. Qualification requirement for installation and maintenance man

- All the work men who are engaging 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 equipments manufacturer.

2. Installation notes

- 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.
- It is not allowed to drill hole or burn the connection pipe.
- Leak test is a must after installation.

table a - Minimum room area (m²)

Charge amount (kg)	Floor location	Window mounted	Wall mounted	Ceiling mounted
≤1.2	/	/	/	/
1.3	14.5	5.2	1.6	2.6
1.4	16.8	6.1	1.9	2.8
1.5	19.3	7	2.1	3
1.6	22	7.9	2.4	3.2
1.7	24.8	8.9	2.8	3.4
1.8	27.8	10	3.1	3.6
1.9	31	11.2	3.4	3.8
2.0	34.3	12.4	3.8	4
2.1	37.8	13.6	4.2	4.2
2.2	41.5	15	4.6	4.4
2.3	45.4	16.3	5	4.6
2.4	49.4	17.8	5.5	4.8
2.5	53.6	19.3	6	5
2.6	58.1	20.9	6.5	5.2
2.7	62.6	22.6	7	5.4
2.8	67.4	24.3	7.5	5.6
2.9	72.3	26	8.1	5.8
3.0	77.3	27.9	8.6	6
3.1	82.6	29.8	9.2	6.2
3.2	88	31.7	9.8	6.6
3.3	93.6	33.7	10.4	7
3.4	99.3	35.8	11.1	7.4
3.5	105.2	37.9	11.7	7.9
3.6	111.3	40.1	12.4	8.3
3.7	117.6	42.4	13.1	8.8
3.8	124	44.7	13.8	9.3
3.9	130.7	47.1	14.6	9.8
4.0	137.4	49.5	15.3	10.3

3. Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.

— It's 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.

4. 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 N₂ 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 its well-ventilated.

- The refrigerant should be recycled into the specialized storage tank.

5. 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.

6. 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.

Specialist's Manual

- The following checks shall be applied to installations using flammable refrigerants:

— the charge size is in accordance with the room size within which the refrigerant containing parts are installed;

— the ventilation machinery and outlets are operating adequately and are not obstructed;

— if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;

— marking to the equipment continues to be visible and

legible. Markings and signs that are illegible shall be corrected;

— refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

- Initial safety checks shall include:

— that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;

— that no live electrical components and wiring are exposed while charging, recovering or purging the system;

— that there is continuity of earth bonding.

- Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised. For repair to the refrigerating system, DD.4.3 to DD.4.7 shall be completed prior to conducting work on the system.

- Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

- General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.

- Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

- Presence of fire extinguisher

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

- No ignition sources

No person carrying out work in relation to a refrigerating system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.

Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

- Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

- Checks to the refrigerating equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

— the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed;

— the ventilation machinery and outlets are operating adequately and are not obstructed;

— if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;

— marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;

— refrigerating pipe or components are installed in a

position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

- Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

- Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

- Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

- Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

- Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

- Leak detection methods

The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need recalibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25% maximum) is confirmed.

Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing

process.

- Removal and evacuation

When breaking into the refrigerant circuit to make repairs — or for any other purpose — conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

- Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigerating

system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

- Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure, ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80% volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

- **Labelling**

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

- **Recovery**

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be

complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

- **General**

That the installation of pipe-work shall be kept to a minimum.

That compliance with national gas regulations shall be observed.

That mechanical connections made in accordance with 22.118 shall be accessible for maintenance purposes.

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



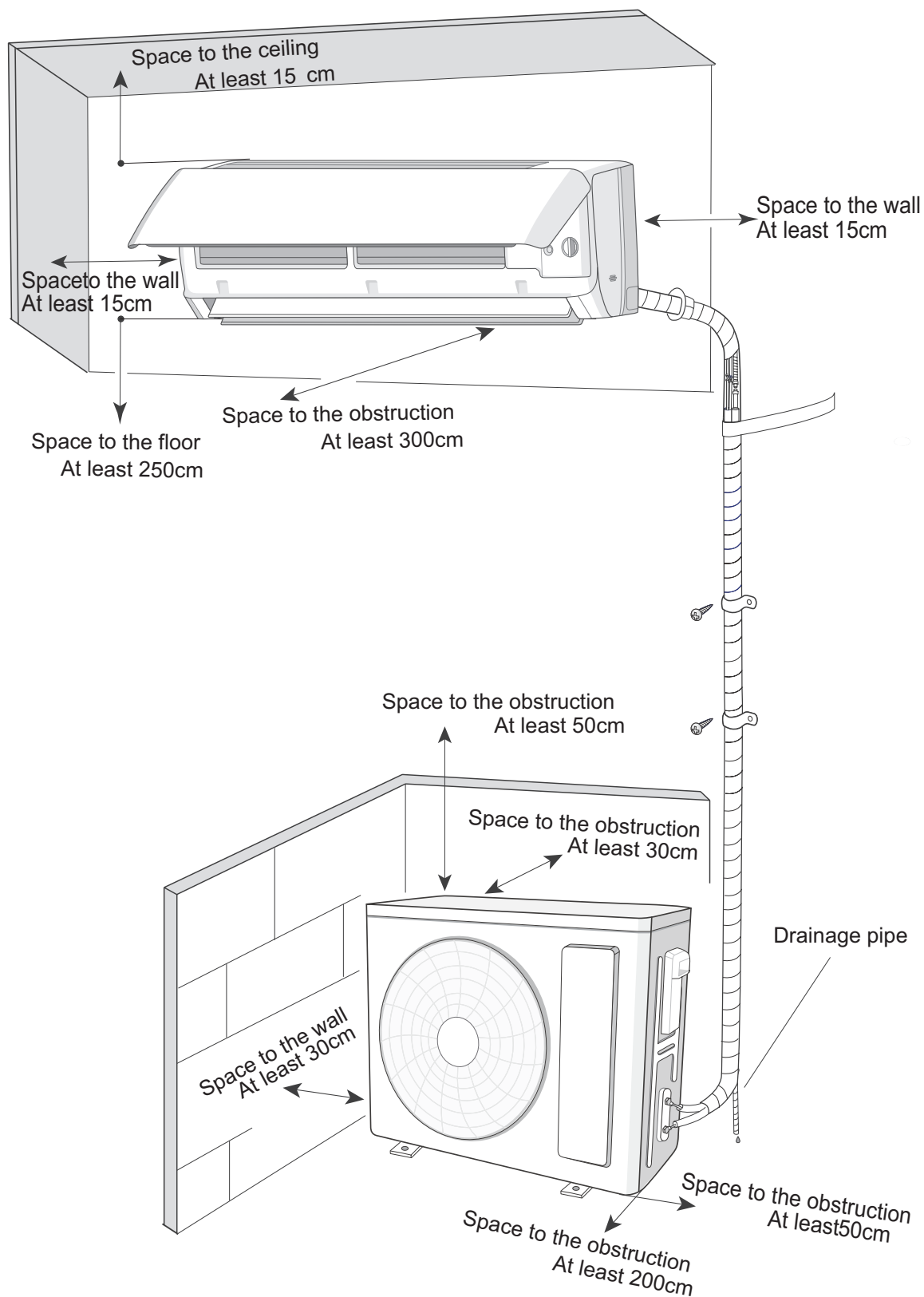
Refrigerant container



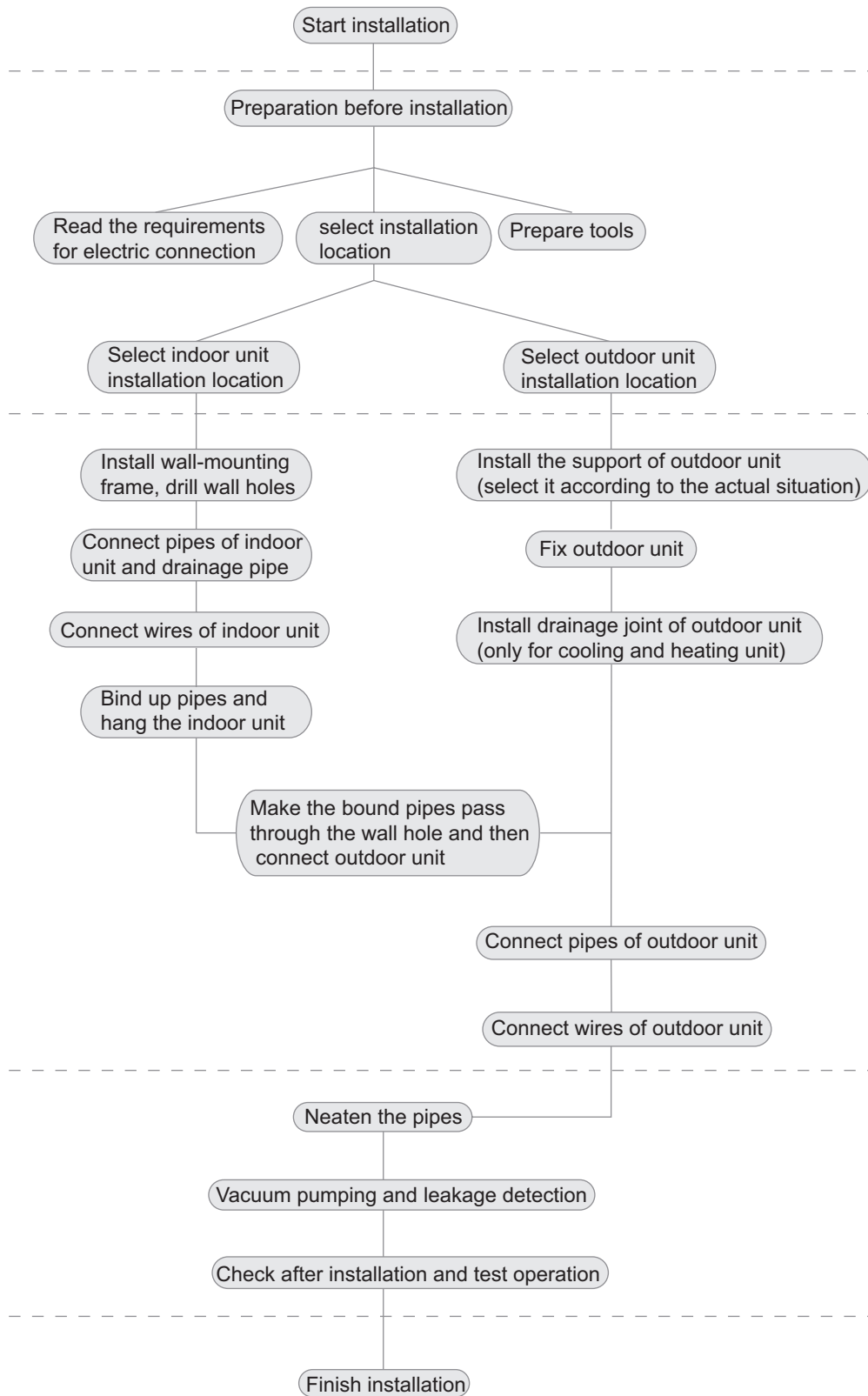
Electronic scale

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 section.

8.2 Installation Parts-checking

No.	Name	No.	Name
1	Indoor unit	8	Sealing gum
2	Outdoor unit	9	Wrapping tape
3	Connection pipe	10	Support of outdoor unit
4	Drainage pipe	11	Fixing screw
5	Wall-mounting frame	12	Drainage plug (Heat pump model)
6	Connecting cable (Power Cord)	13	Owners manual
7	Wall pipe	14	Remote controller

NOTE:

1. Please contact the local agent for installation.
2. Don't 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 won't 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 won't increase noise and vibration.
- (6) The appliance must be installed 2.5m above floor.
- (7) Don't install the indoor unit right above the electric appliance.
- (8) Please try your best to keep away 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 won't 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) The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- (8) The appliance shall be installed in accordance with national wiring regulations.

2. Grounding Requirement

- (1) The air conditioner is I 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 can't 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
07K / 09K / 12K	10A	3G1.0
18K / 24K(AGD)	16A	3G1.5
24K(AGE)	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

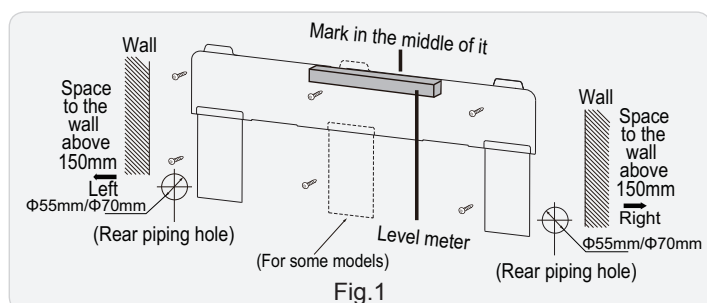
(1) Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.

(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.

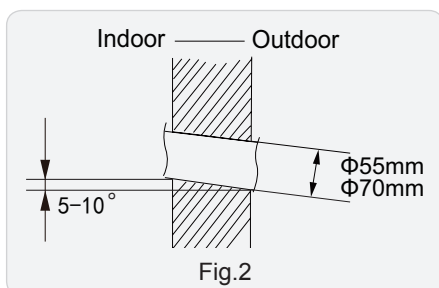
3. Drill Piping Hole

(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. (As show in Fig.1)



(2) When installation is finished, pull the mounting plate with hand to confirm whether it is fixed tightly. The force distribution for all screws should be uniform.

(3) Drill a piping hole with the diameter of Φ55mm or Φ70mm 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°. (As show in Fig.2)



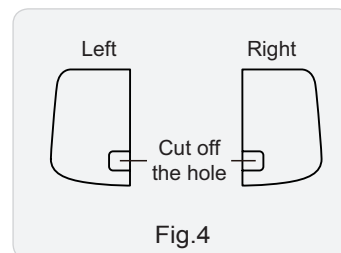
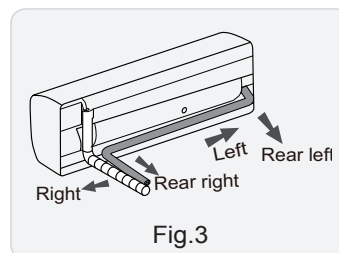
NOTE:

- Pay attention to dust prevention and take relevant safety measures when drilling 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)



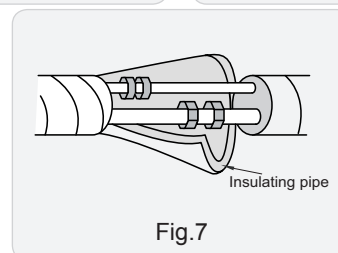
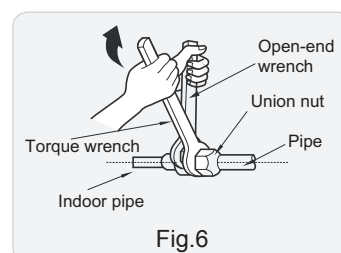
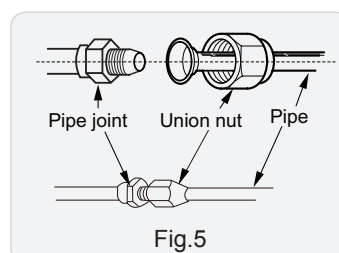
5. Connect the Pipe of Indoor Unit

(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)



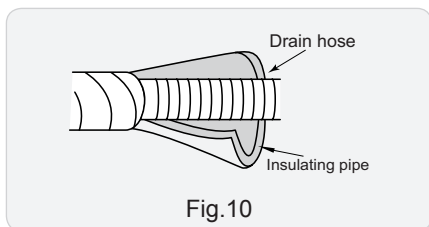
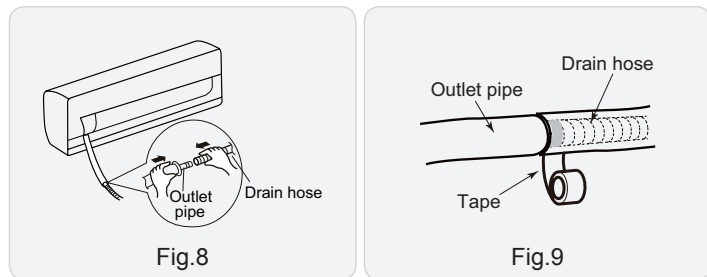
Refer to the following table for wrench moment of force:

Piping size (inch)	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)



NOTE:

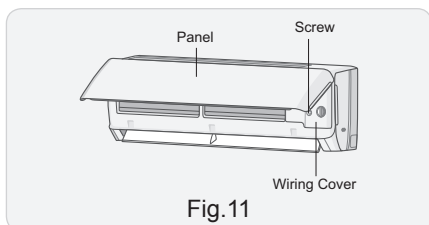
- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.

7. Connect Wire of Indoor Unit

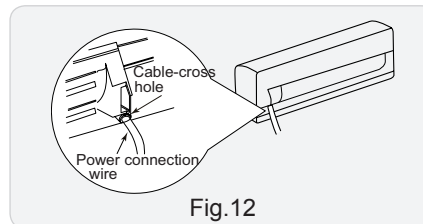
NOTICE:

- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- 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.

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



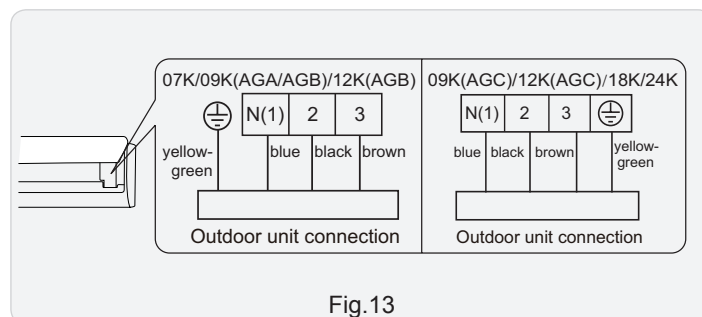
(2) Make the power connection wire go through the cable-cross hole at the back of indoor unit and then pull it out from the front side. (As show in Fig.12)



(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)

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

(5) Close the panel.



NOTICE:

- The wiring board is for reference only, please refer to the actual one.

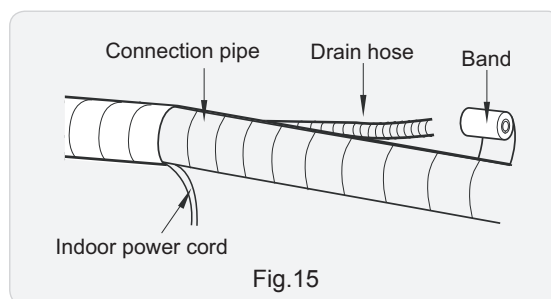
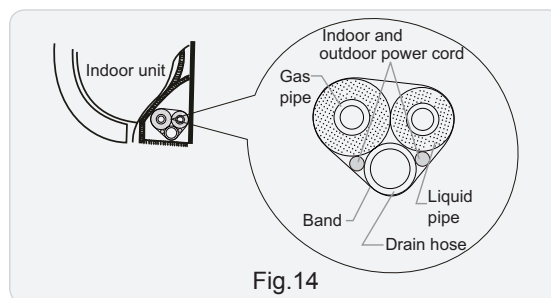
8. Bind up Pipe

(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.



NOTE:

- The power cord and control wire can't be crossed or winding.
- 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)

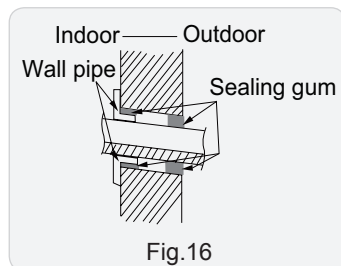


Fig.16

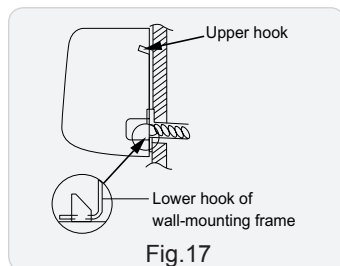


Fig.17

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.

NOTICE:

- Take sufficient protective measures when installing the outdoor unit.
- Make sure the support can withstand at least four times the unit weight.
- The outdoor unit should be installed at least 3cm above the floor in order to install drain joint. (As show in Fig.18)
- 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.



Fig.18

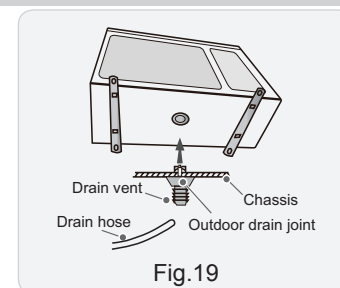


Fig.19

2. Install Drain Joint (Only for heat pump models)

- (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)

NOTICE:

- As for the shape of drainage joint, please refer to the current product. Do not install the drainage joint in the severe cold area. Otherwise, it will be frosted and then cause malfunction.

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)

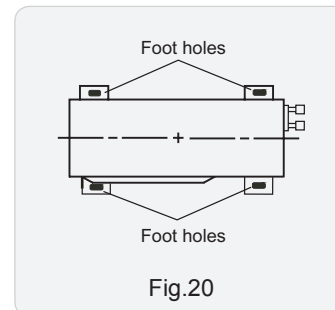


Fig.20

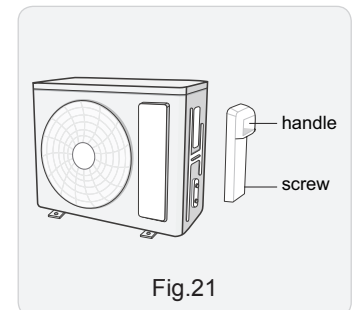
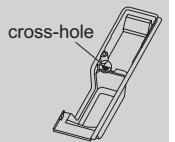


Fig.21

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.

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

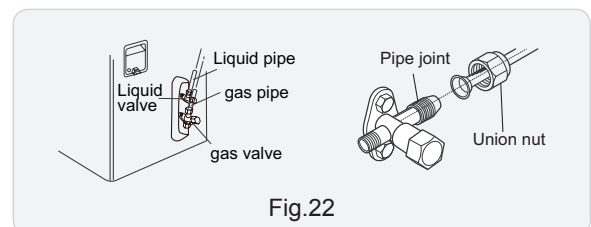


Fig.22

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

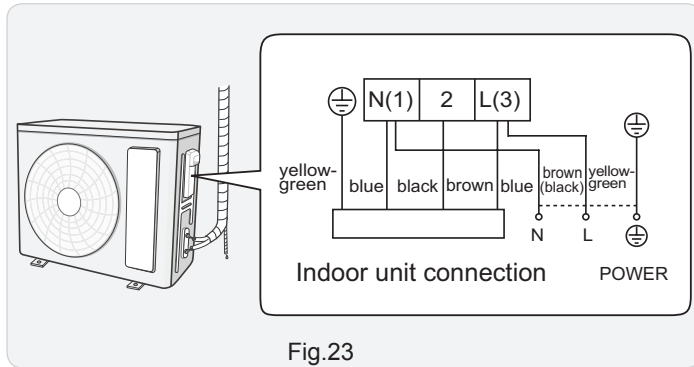
Refer to the following table for wrench moment of force:

Piping size (inch)	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)



NOTICE:

- The wiring board 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 heat pump models).

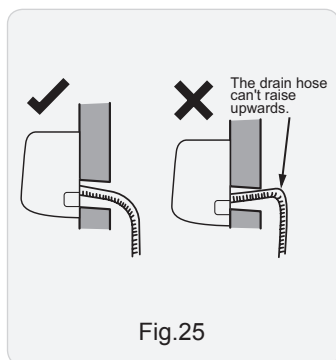
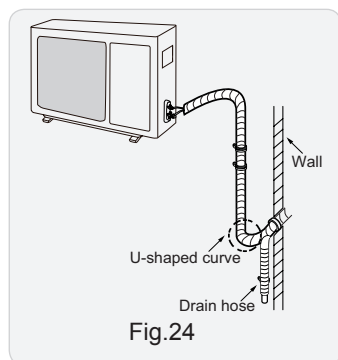
NOTICE:

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

6. Neaten the Pipes

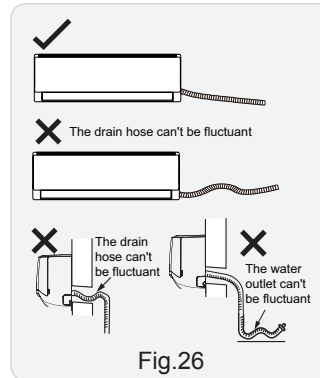
(1) The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.

(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)



NOTICE:

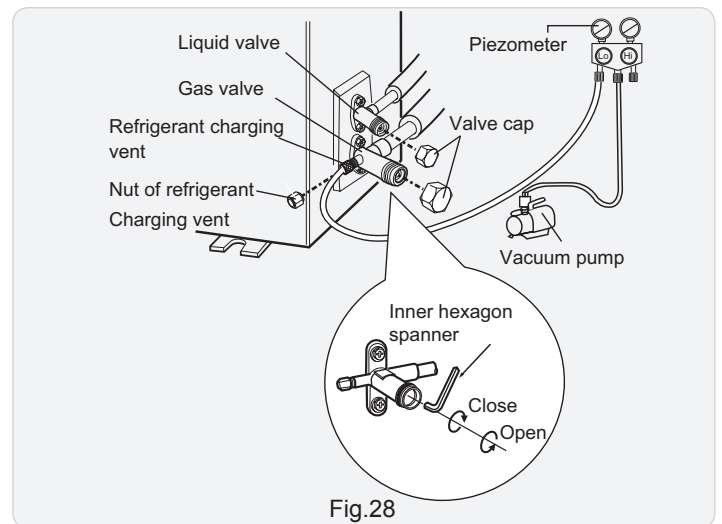
- The through-wall height of drain hose shouldnt be higher than the outlet pipe hole of indoor unit.(As show in Fig.25)
- Slant the drain hose slightly downwards. The drain hose cant be curved, raised and fluctuant, etc.(As show in Fig.26)
- The water outlet cant be placed in water in order to drain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



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 can't start cooling.

9. Maintenance

9.1 Error Code List

Error code	Malfunction name	AC status	Possible causes
C5	Malfunction of jumper cap	The complete unit stops operation	1. Jumper cap is not installed in control panel; 2. Poor contact of jumper cap; 3. Jumper cap is damaged; 4. The tested circuit of jumper cap on control panel is abnormal.
E6	Communication malfunction between indoor unit and outdoor unit	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Communication malfunction"
H5	IPM protection	Cool/Dry: compressor stops operation, while indoor fan operates. Heat: all loads stops operation.	See "IPM protection, over-phase current of compressor"
L3 LA	Malfunction of outdoor fan/ malfunction of DC motor	Cool/Dry: all loads stops operation except indoor fan. Heat: all loads stops operation.	1. Outdoor condenser, air inlet and air outlet are blocked by filth or dirt; 2. Fan is blocked or loosened; 3. Motor or connection wire of motor is damaged; 4. Main board of outdoor unit is damaged; (As for dual-outdoor fan, L3 indicates fan 1; LA indicates fan 2)
H3	Overload protection of compressor	Cool/Dry: compressor stops operation, while indoor fan operates. Heat: all loads stops operation.	1. Overload wire of compressor is loose; 2. The overload protector is damaged. Under normal circumstances, the resistance between both ends of terminal is less than 1ohm. 3. See "Overload protection of compressor , High discharge temperature protection of compressor"
F0	Refrigerant insufficient protection, cut-off protection of refrigerant	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: Compressor, outdoor fan and indoor fan stops operation.	1. Is system cooling under high humidity environment, thus temperature difference of heat transfer is small; 2. Check whether the big valve and small valve of outdoor unit are opened completely; 3. Is the temperature sensor of evaporator of indoor unit loose? 4. Is the temperature sensor of condenser of outdoor unit loose? 5. Is the capillary or the electronic expansion valve blocked? 6. Is refrigerant leaking?
F1	Indoor ambient temperature sensor is open/short-circuited	Cool/Dry: indoor fan operates, while compressor and outdoor fan stops operation; Heat: all loads stops operation.	1. Temperature sensor is not well connected; 2. Temperature sensor is damaged 3. Main board of indoor unit is damaged.
F2	Indoor evaporator temperature sensor is open/short-circuited	Cool/Dry: indoor fan operates, while compressor and outdoor fan stops operation; Heat: all loads stops operation.	1. Temperature sensor is not well connected; 2. Temperature sensor is damaged 3. Main board of indoor unit is damaged.
H6	No feedback from indoor unit's motor	The complete unit stops operation	1. Is the fan blocked? 2. Is the motor terminal loose? 3. Is the connection wire of motor damaged? 4. Is the motor damaged? 5. Is the main board of indoor unit damaged?
LP	Indoor unit and outdoor can be matched with each other	Compressor, outdoor unit and indoor fan stops operation.	Capacity of indoor unit and outdoor unit can't be matched.
C4	Malfunction of jumper cap of outdoor unit	Heat: all loads are stopped; other modes: outdoor unit stops operation.	Jumper cap of outdoor unit hasn't been installed.
b7	Gas valve temperature sensor is ON / short-circuited		1. Temperature sensor is not well connected or damaged; 2. The wire of temperature sensor is damaged, causing short circuit to copper pipe or outer casing; 3. Main board of outdoor unit is damaged.

Error code	Malfunction name	AC status	Possible causes
b5	Liquid valve temperature sensor is ON / short-circuited		<ol style="list-style-type: none"> 1. Temperature sensor is not well connected or damaged; 2. The wire of temperature sensor is damaged, causing short circuit to copper pipe or outer casing; 3. Main board of outdoor unit is damaged.
E1	High pressure protection of system	Cool/Dry: all loads stops operation except indoor fan; Heat: all loads stops operation.	<ol style="list-style-type: none"> 1. Heat exchange of outdoor unit is too dirty, or it blocked the air inlet/outlet; 2. Is power voltage normal; (three-phase unit) 3. Ambient temperature is too high; 4. Wiring of high pressure switch is loose or high pressure switch is damaged; 5. The internal system is blocked; (dirt blockage, ice blockage, oil blockage, angle valve is not completely opened) 6. Main board of outdoor unit is damaged; 7. Refrigerant is too much.
E3	Low pressure/low system pressure protection/ compressor low pressure protection	Cool: compressor, outdoor fan and indoor fan stop operation; Heat: compressor and outdoor fan stop operation at first. About 1 minute later, indoor fan stops operation; 2 minutes later, the 4-way valve stop operation.	<ol style="list-style-type: none"> 1. Low pressure switch is damaged; 2. Refrigerant inside the system is insufficient.
E4	High discharge temperature protection of compressor	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Overload protection of compressor , High discharge temperature protection of compressor"
E5	AC overcurrent protection	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates; Heat: all loads stops operation.	<ol style="list-style-type: none"> 1. Power voltage is unstable; 2. Power voltage is too low; 3. System load is too high, which leads to high current; 4. Heat exchange of indoor unit is too dirty, or it blocked the air inlet/outlet; 5. Fan motor operation is abnormal; the fan speed is too low or not functioning; 6. Compressor is blocked; 7. The internal system is blocked; (dirt blockage, ice blockage, oil blockage, angle valve is not completely opened) 8. Main board of outdoor unit is damaged. See "AC overcurrent protection"
E7	Mode shock/sysmte mode shock	Load of indoor unit stops operation (indoor fan, E-heater, swing)	Malfunction of one-to-more system; there may be two indoor units which has set the shock mode, such as one is cooling and the other is heating.
E8	High temperature prevention protection	Cool: compressor stops operation while indoor fan operates; Heat: all loads stops operation.	See "High temperature prevention protection; high power; system isabnormal"
EE	Malfunction of EEPROM	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Main board of outdoor unit is damaged.
F0	Refrigerant-recovery mode	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates.	Refrigerant recovery. The maintenance personnel operate it when he is maintaining the unit.
F3	Outdoor ambient temperature is open/short-circuited	Cool/Dry: compressor and outdoor fan stop operation, while indoor fan operates; Heat: all loads stops operation.	<ol style="list-style-type: none"> 1. Temperature sensor is not connected well or damaged; 2. Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case; 3. Main board of outdoor unit is damaged;

Error code	Malfunction name	AC status	Possible causes
F4	Outdoor condenser temperature sensor is open/short-circuited	Cool/Dry: compressor and outdoor fan stop operation, while indoor fan operates; Heat: after operating for 3 minutes, all loads stops operation.	1. Temperature sensor is not connected well or damaged; 2. Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case; 3. Main board of outdoor unit is damaged.
F5	Outdoor air discharge temperature is open/short-circuited	Complete unit stops operation; motor of sliding door is cut off power.	1. The exhaust temperature sensor is not connected well or damaged. 2. Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case 3. Main board of outdoor unit is damaged;
FC	Malfunction of micro switch	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. The sliding door is blocked; 2. Malfunction of the photoelectric inspection panel of sliding door;
H4	System is abnormal	Cool/Dry: all loads stops operation except indoor fan; Heat: all loads stops operation.	See "High temperature prevention protection; high power; system is abnormal"
H7	Desynchronizing of compressor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Desynchronization diagnosis for compressor"
HC	PFC protection	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. The power grid quality is bad; AC input voltage fluctuates sharply; 2. Power plug of air conditioner or wiring board or reactor is not connected reliably; 3. Indoor and outdoor heat exchanger is too dirty, or air inlet/outlet is blocked; 4. Main board of outdoor unit is damaged.
HE	Demagnetization protection of compressor	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	1. The main board of outdoor unit is damaged; 2. Compressor is damaged;
JF	Communication malfunction between indoor unit and inspection board	Normal operation	1. Poor connection between the indoor unit and the inspection board. 2. The main board of indoor unit is damaged; 3. The inspection board is damaged;
L1	Malfunction of humidity sensor	Compressor, outdoor fan and indoor fan stop operation;	The inspection board is damaged.
L9	High power protection	Cool: compressor and outdoor fan stops operation, while indoor fan operates.	See "High temperature prevention protection; high power; system is abnormal"
Lc	Start-up failed	Cool/Dry: compressor stops, while indoor fan operates; Heat: all loads stops operation.	See "Malfunction diagnosis for failure startup"
Ld	Lost phase	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	1. The main board of outdoor unit is damaged; 2. The compressor is damaged; 3. The connection wire of compressor is not connected well.
PS	Over-phase current protection of compressor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Overload protection of compressor , High discharge temperature protection of compressor"

Error code	Malfunction name	AC status	Possible causes
oE	Undefined outdoor unit error	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 (e.g.: less than 20°C or more than 60°C for cooling; more than 30°C for heating); 2. Are wires of compressor not connected tightly? 3. Failure startup of compressor? 4. Is compressor damaged? 5. Is main board damaged?
P6	Communication malfunction between the drive board and the main board	Cool: compressor and outdoor fan stops operation; Heat: compressor and outdoor fan stop at first; about 1 minute later, indoor fan stops operation;	1. The drive board is damaged; 2. The main board of outdoor unit is damaged; 3. The drive board and the main board is not connected well.
P7	Circuit malfunction of module temperature sensor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Replace outdoor control board
P8	Module overheating protection	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. Air inlet / air outlet of outdoor unit are blocked by filth or dirt; 2. Condenser of outdoor unit is blocked by filth or dirt; 3. IPM screw of main board is not tightened; 4. Main board of outdoor unit is damaged;
PF	Malfunction of ambient temperature sensor of drive board	Cool: compressor, outdoor fan and indoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	1. The ambient temperature sensor of the drive board is not connected well; 2. Malfunction of the ambient temperature sensor of drive board.
PH	DC bus voltage is too high	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. Measure the voltage between position L and position N on the wiring board (XT). If it's higher than 265 VAC, please turn on the unit until the power voltage is decreased to the normal range; 2. If the AC input is normal, please replace the outdoor control board.
PL	DC bus voltage is too low	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. Measure the voltage between position L and position N on the wiring board (XT). If it's lower than 150 VAC, please turn on the unit until the power voltage is increased to the normal range; 2. If the AC input is normal, please replace the outdoor control board.
PU	Charging malfunction of capacitor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Charging malfunction of capacitor"
rF	Malfunction of RF module	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	1. The connection wire of RF module is not connected well. 2. Malfunction of RF module;
U1	Phase current detection circuit malfunction of	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stops operation.	The control board is damaged
U2	Lost phase protection of compressor	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	1. The main board of outdoor unit is damaged; 2. The compressor is damaged; 3. The connection wire of compressor is not connected well.

Error code	Malfunction name	AC status	Possible causes
U3	DC bus voltage drop malfunction	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	The power voltage is unstable.
U5	Current detection malfunction of unit	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stops operation.	1. Is the complete unit lacking of refrigerant? 2. There's malfunction for the circuit of control board of outdoor unit. Replace the control board of outdoor unit.
U7	4-way valve is abnormal	This malfunction occurs when the unit is heating. All loads stops operation.	1. Power voltage is lower than AC175V; 2. Wiring terminal of 4-way valve is loose or broken;3. 4-way valve is damaged. Replace the 4-way valve.
U8	Malfunction of zero-crossing signal of indoor unit	Compressor, outdoor fan and indoor fan stop operation.	1. The power is abnormal; 2. Main board of indoor unit is damaged.
U9	Zero-crossing malfunction of outdoor unit	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Replace the control board of outdoor unit.
E2	Evaporator anti-freezing protection		Not error code, it is the status code in cooling process
E9	Anti cold air protection		Not error code, it is the status code in cooling process
	Defrosting	Heat indicator Flash once/10s	Not error code, it is the status code in cooling process

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 corresponding 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 temperature 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

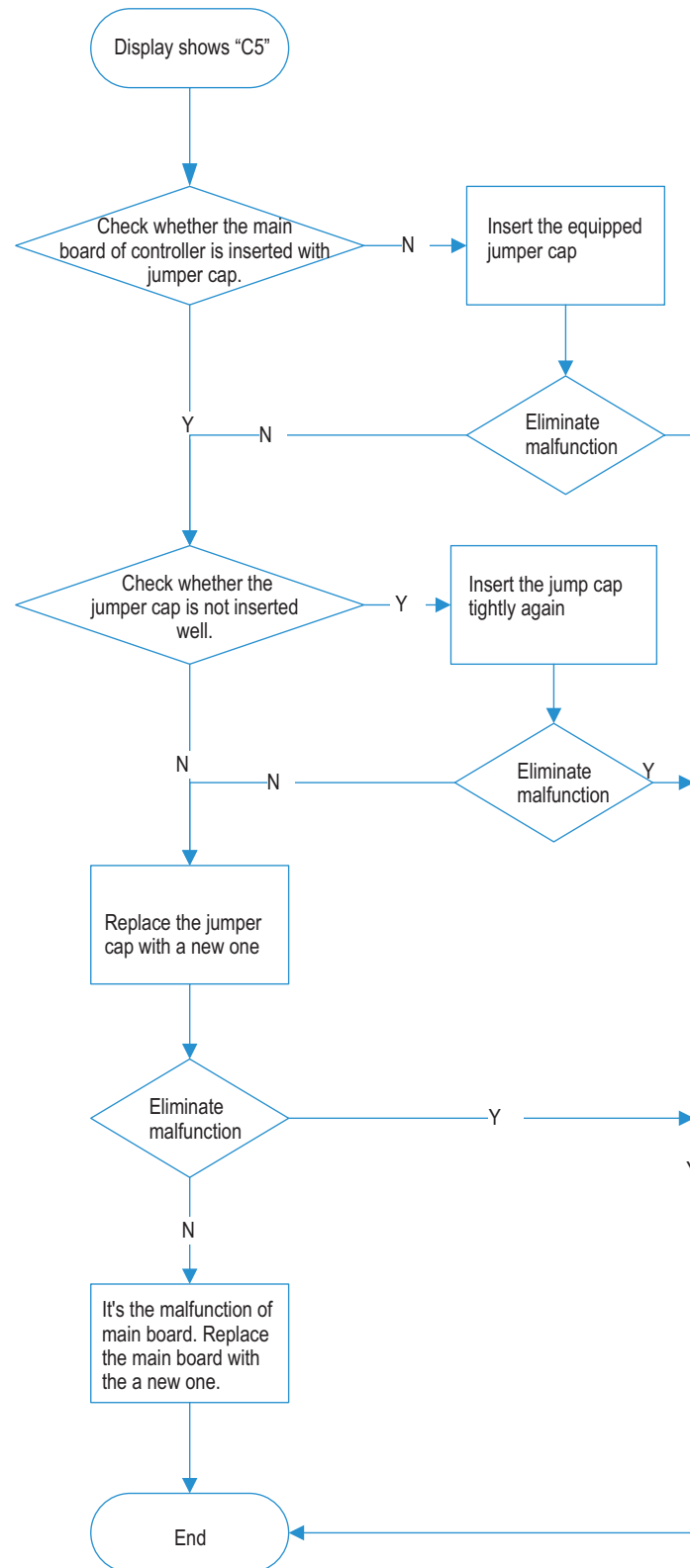
Processing method: Once the module malfunction happens, if it persists for a long time and can not be self-canceled, cut off the power and turn off the unit, and then re-energize the unit again after about 10 min. After repeating the procedure for sever times, if the malfunction still exists, replace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

9.2 Procedure of Troubleshooting

1. Troubleshooting for jumper cap ⚡

Main check points:

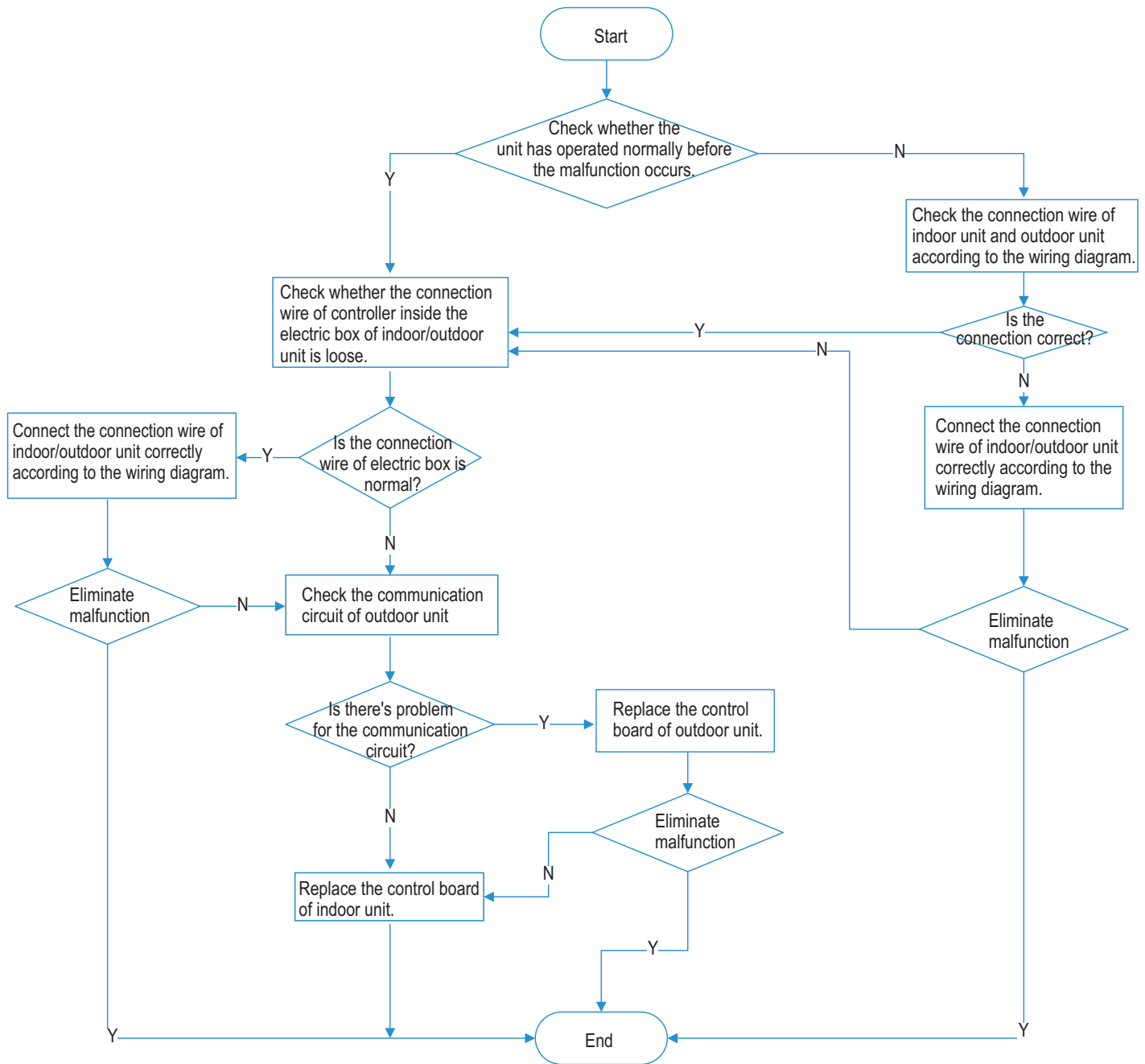
(1) jumper cap (2) control board of indoor unit



2. Communication malfunction EE

Main check points:

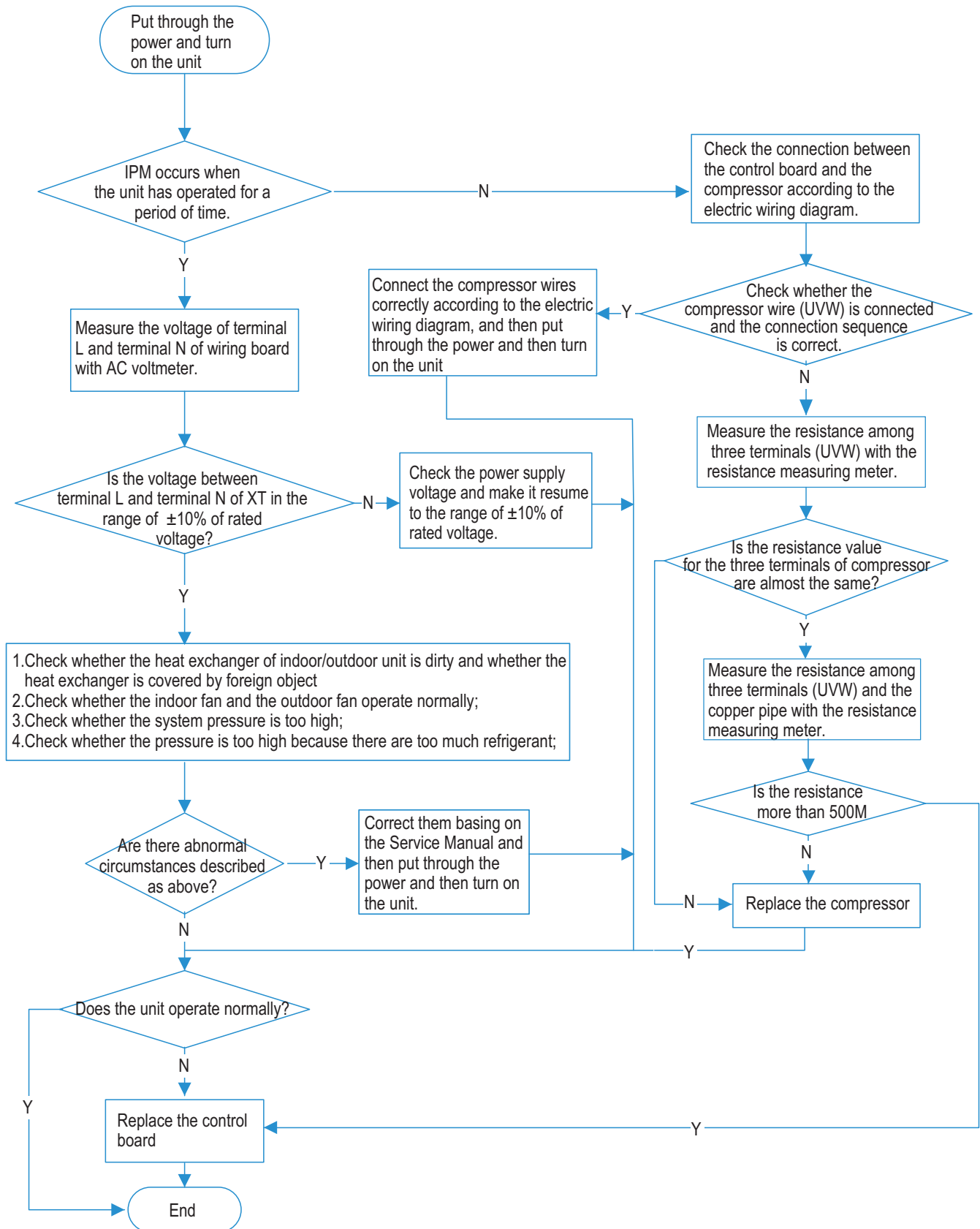
- (1) Connection wire between indoor unit and outdoor unit
- (2) Wiring inside the unit
- (3) Communication circuit of control board of indoor unit
- (4) Communication circuit of control board of outdoor unit



3. IPM protection H5, over-phase current of compressor P5

Main check points:

- (1) compressor COMP terminal (2) power supply voltage (3) compressor
(4) charging amount of refrigerant (5) air inlet and air outlet of indoor/outdoor unit
NOTE: The control board as below means the control board of outdoor unit.

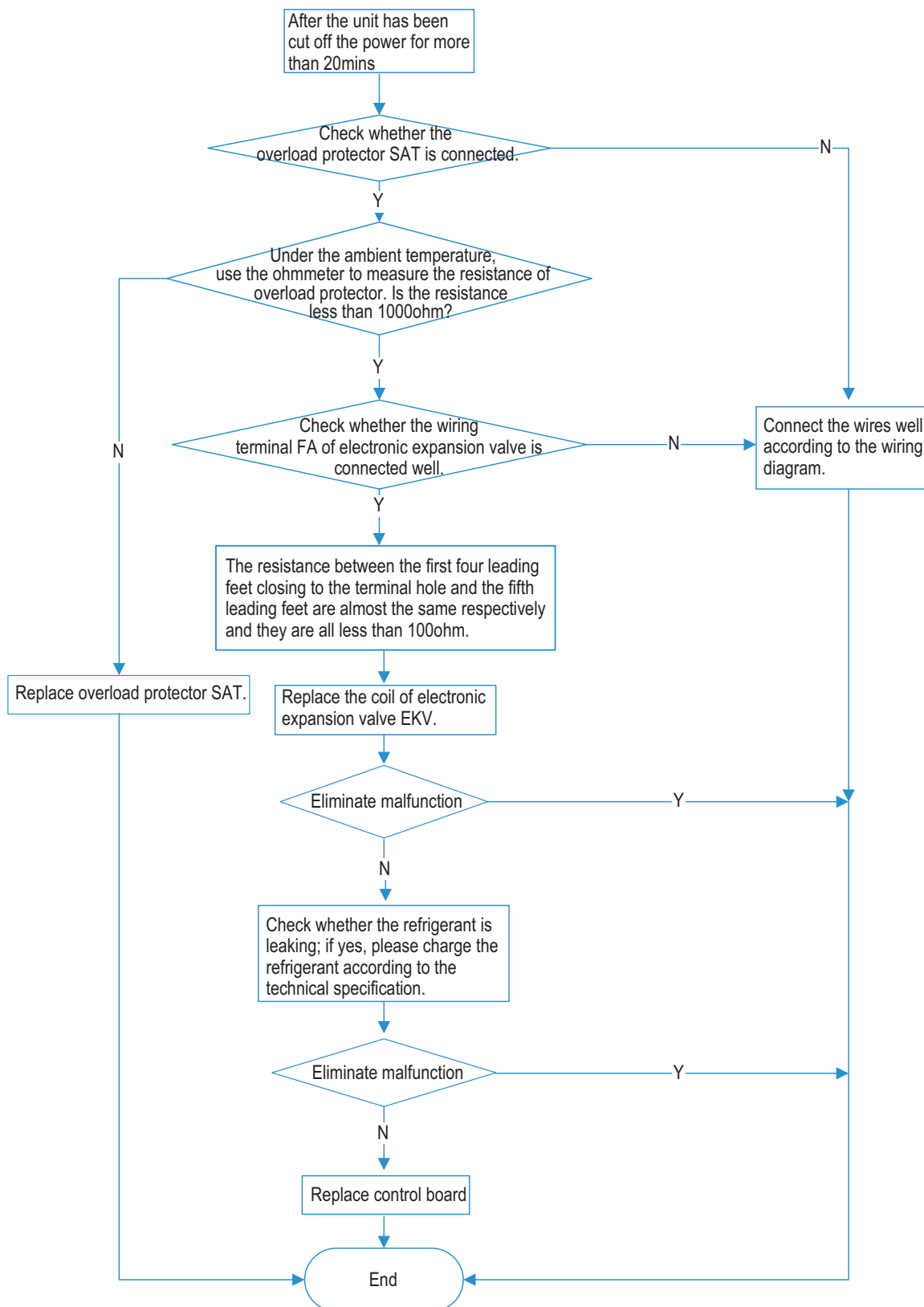


4. Overload protection of compressor H3, high discharge temperature, protection of compressor E4

Main check points:

- (1) electronic expansion valve (2) expansion valve terminal
- (3) charging amount of refrigerant (4) overload protector

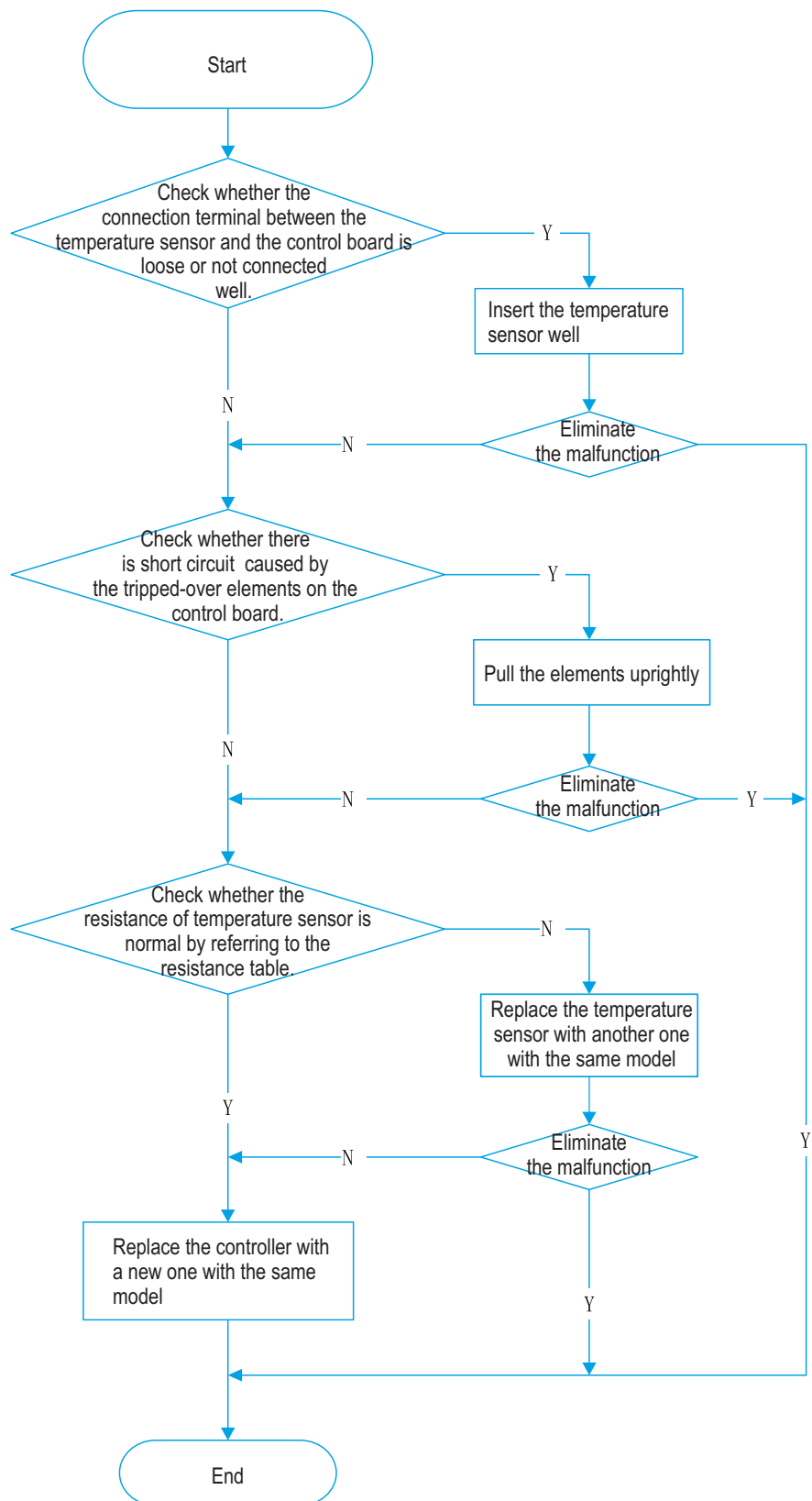
NOTE: The control board as below means the control board of outdoor unit.



5. Troubleshooting for temperature sensor F1,F2,F3,F4,F5

Main check points:

(1) connection terminal (2) temperature sensor (3) main board

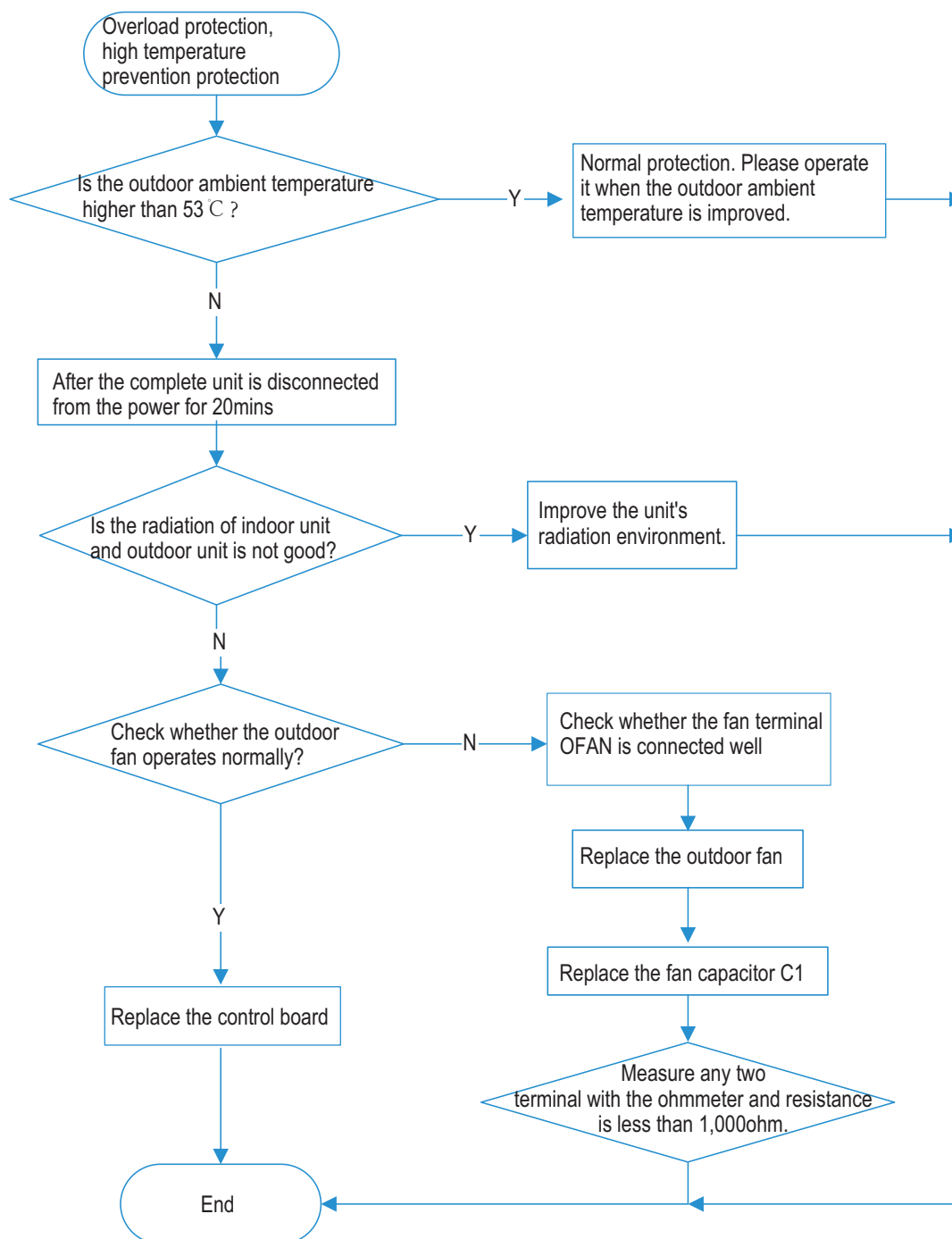


6. High temperature prevention protection E8; high power L9; system is abnormal H4

Main check points:

(1) outdoor temperature (2) fan (3) air inlet and air outlet of indoor/outdoor unit

NOTE: The control board as below means the control board of outdoor unit.

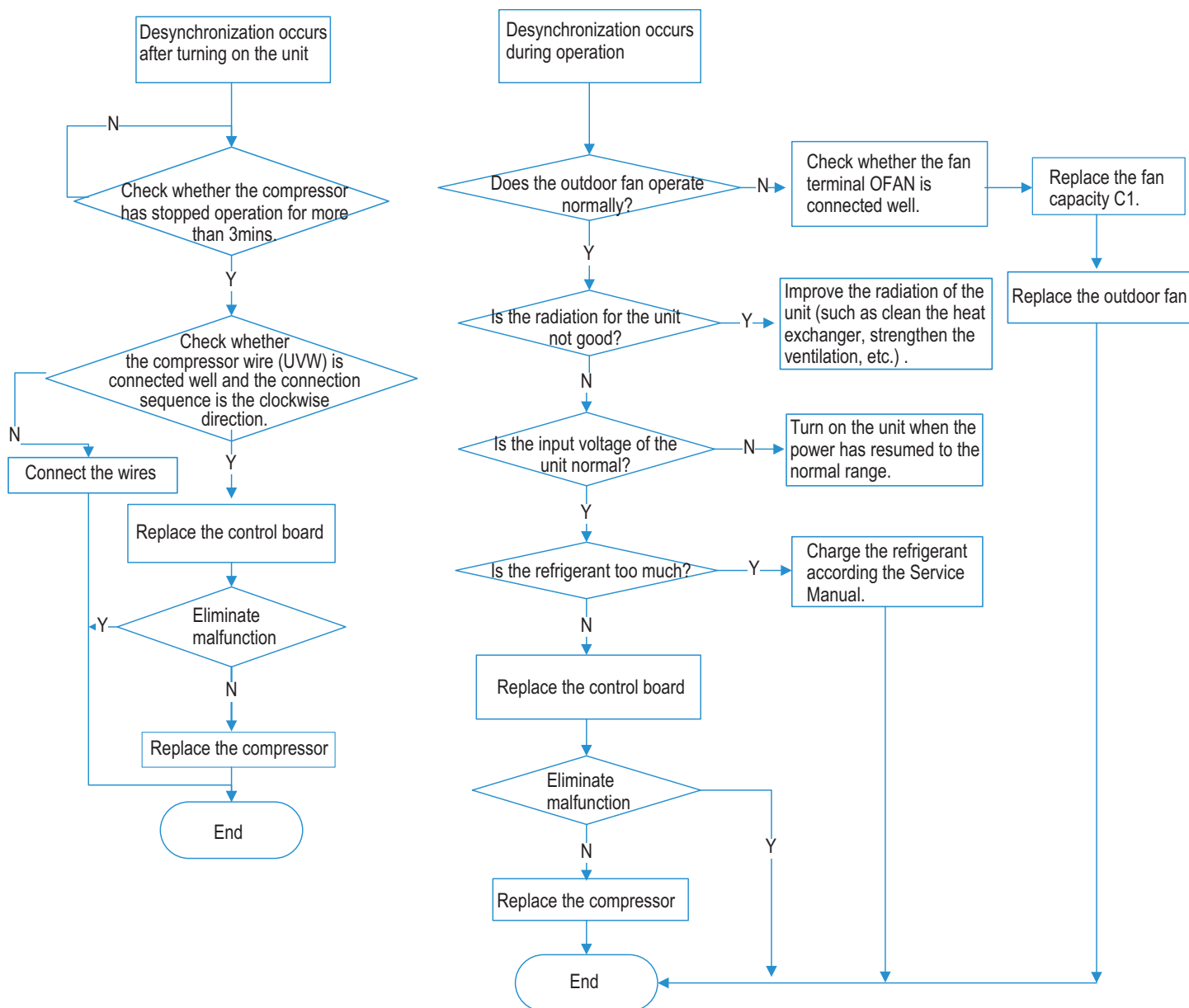


7. Desynchronization diagnosis for compressor H7

Main check point:

(1) system pressure (2) power supply voltage

NOTE: The control board as below means the control board of outdoor unit.

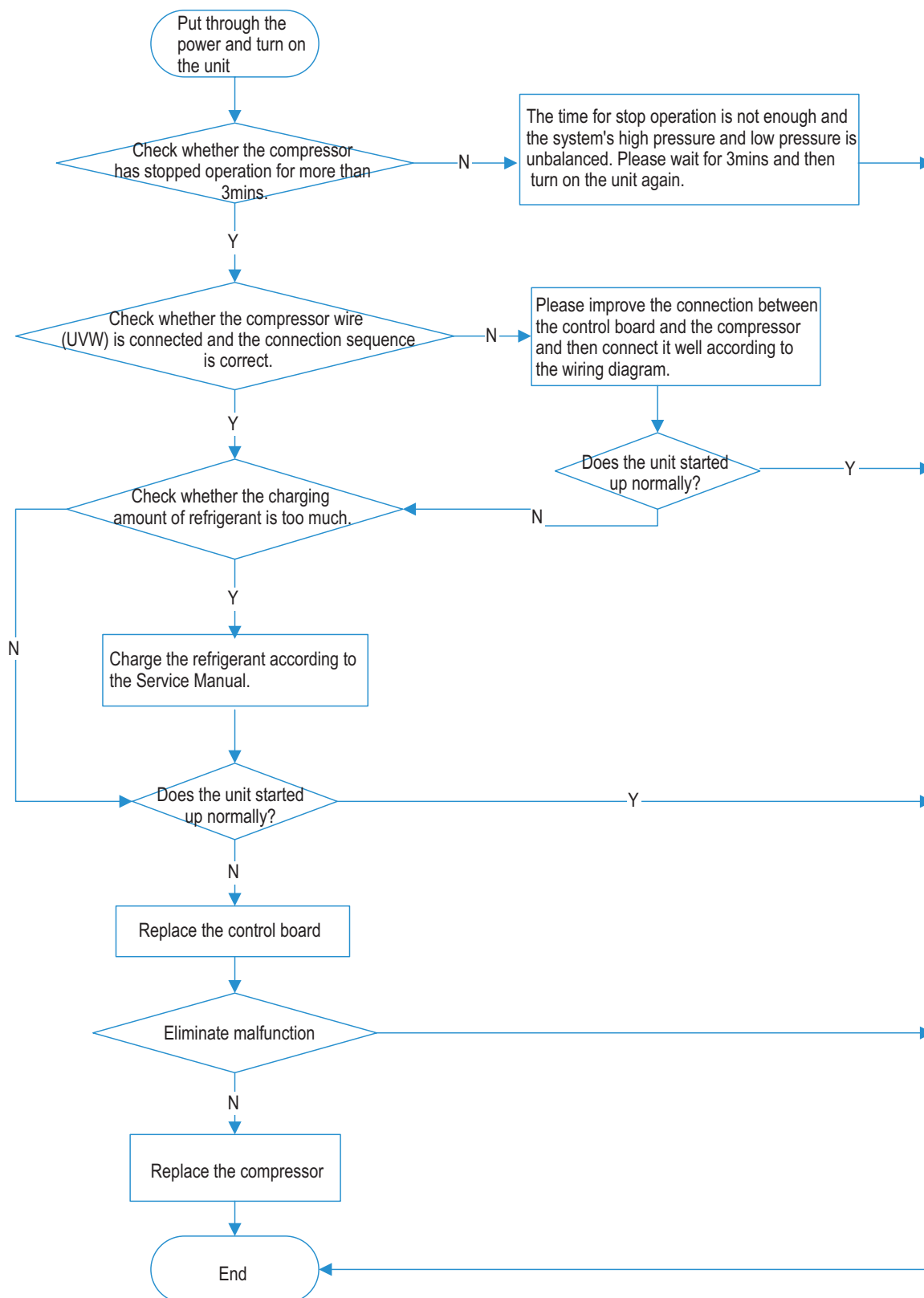


8. Malfunction diagnosis for failure startup L_c

Main check points:

(1) compressor wire (2) compressor (3) charging amount of refrigerant

NOTE: The control board as below means the control board of outdoor unit.

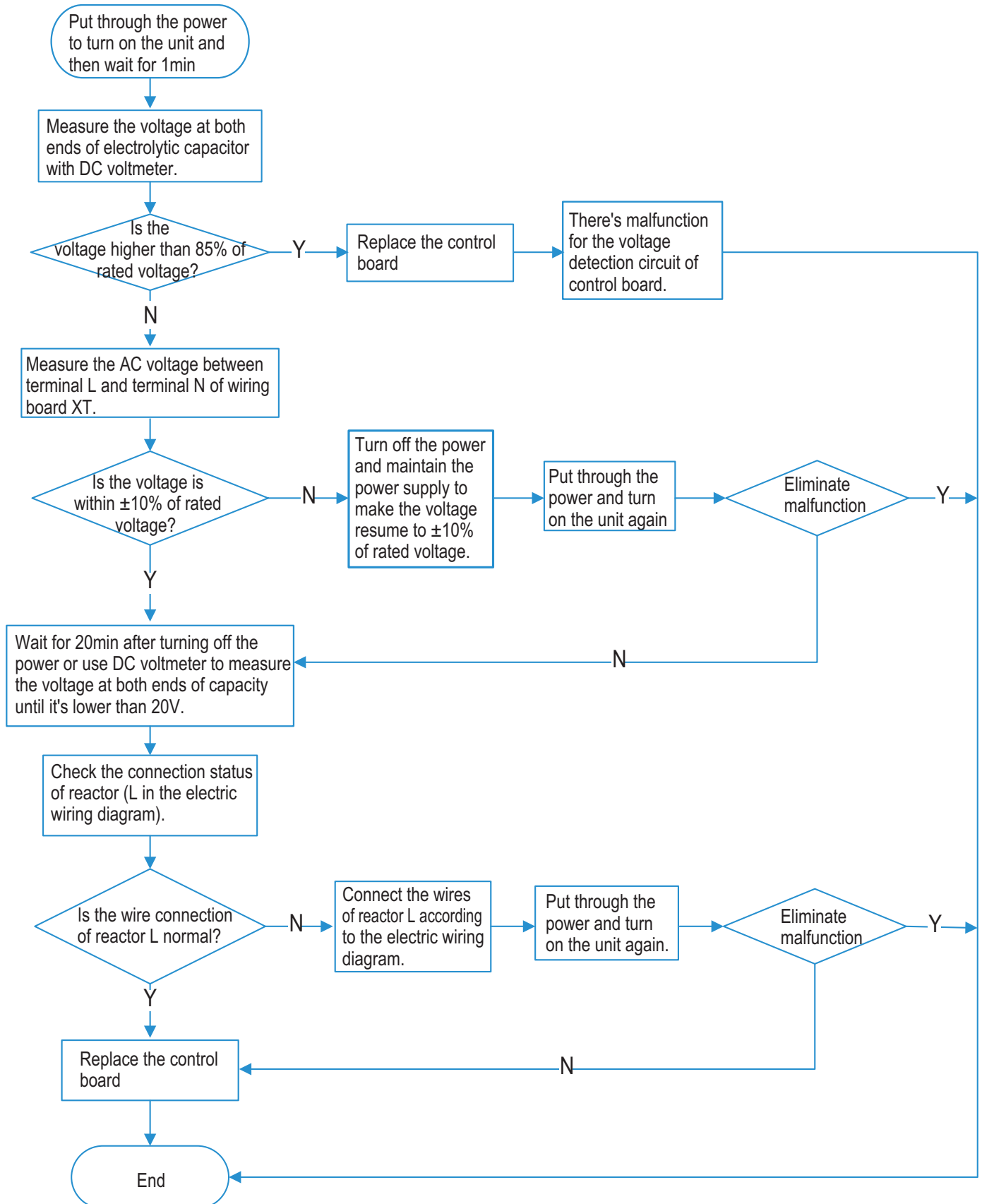


9. Charging malfunction of capacitor PU

Main check points:

(1) wiring board XT (2) reactor

NOTE: The control board as below means the control board of outdoor unit.

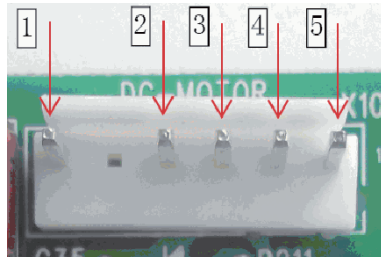
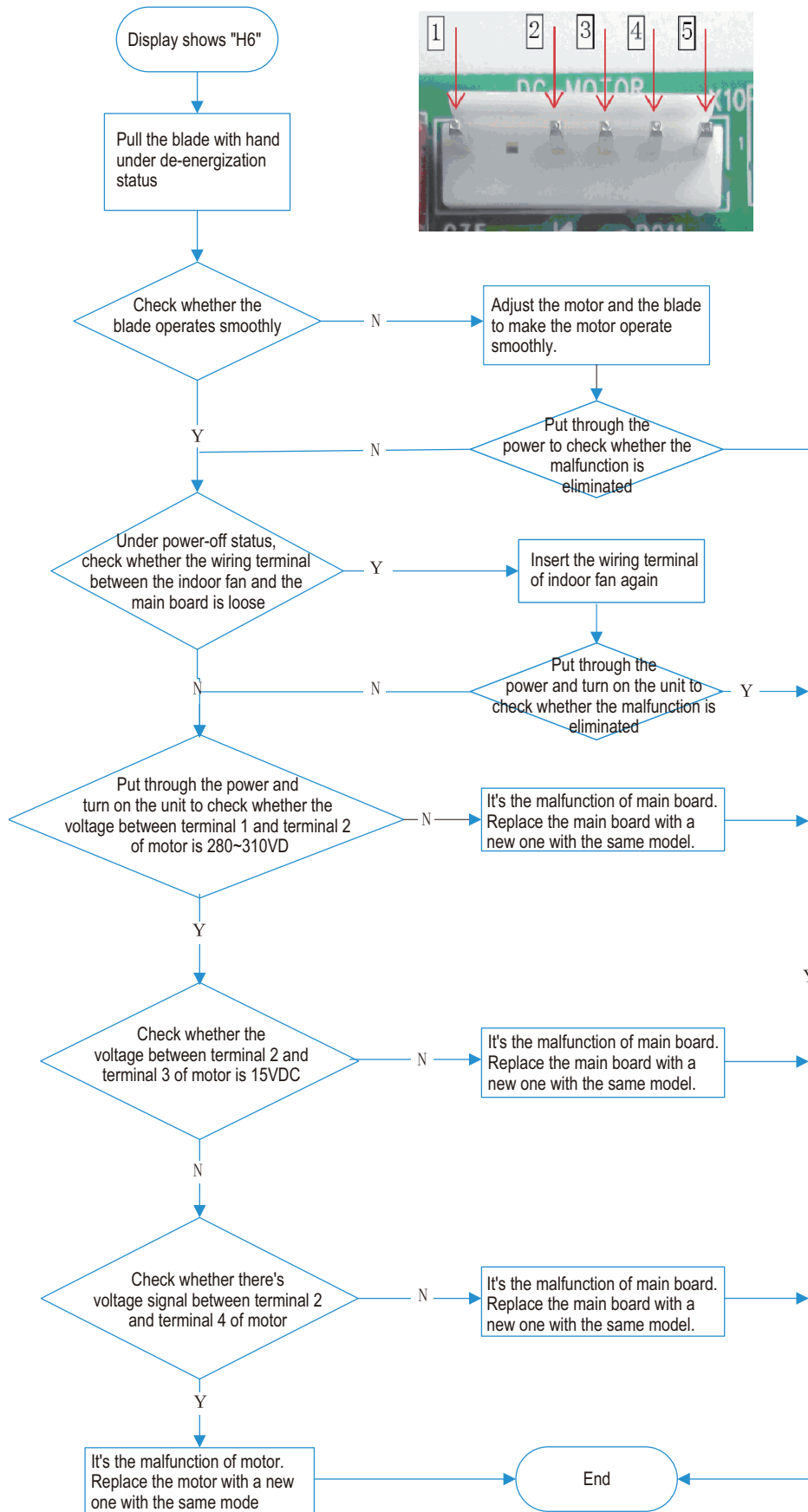


10. Troubleshooting-motor(indoor fan) doesn't operate H5

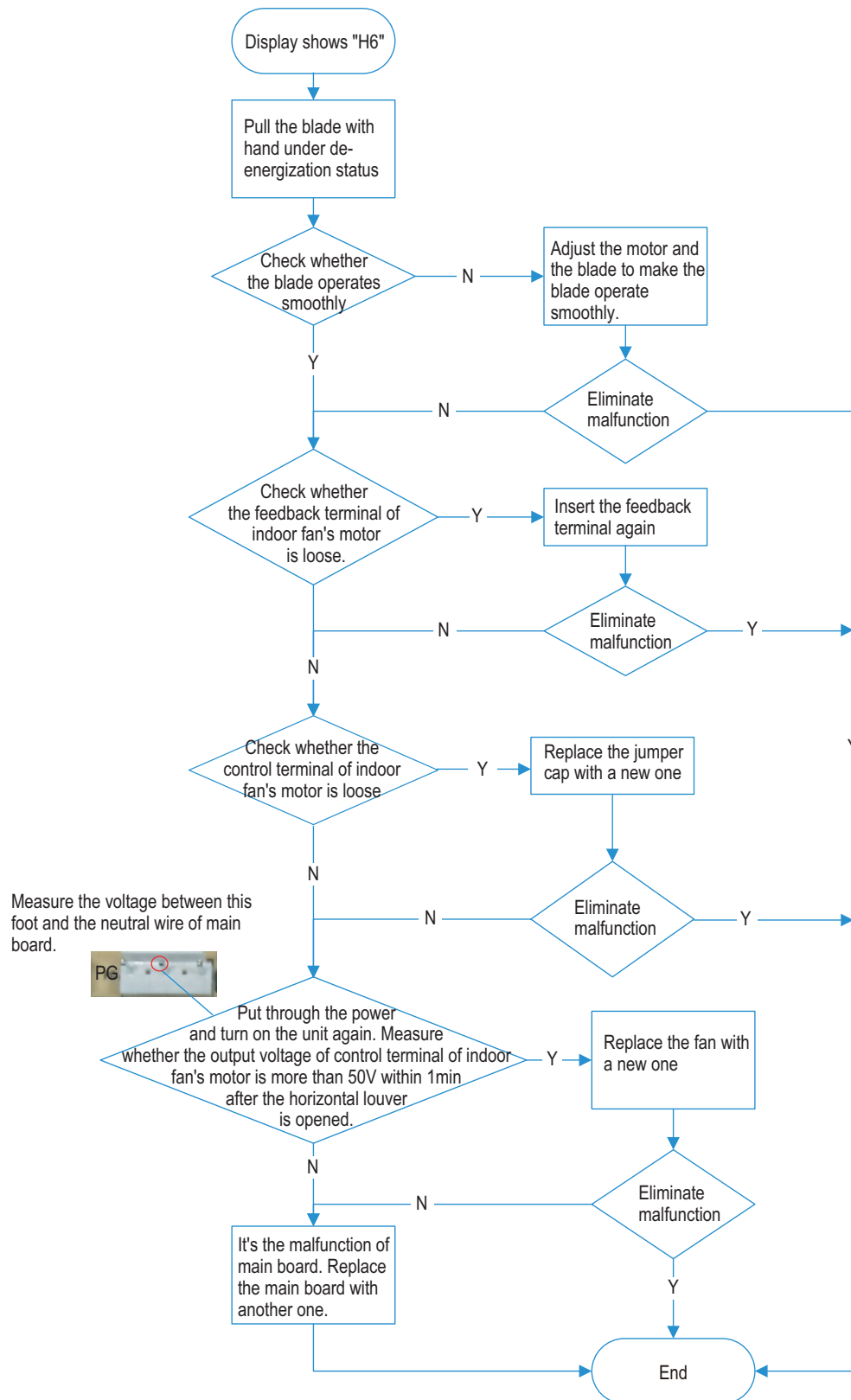
Main check points:

(1) connection terminal (2) motor (3) control board AP1 of indoor unit (4) blade

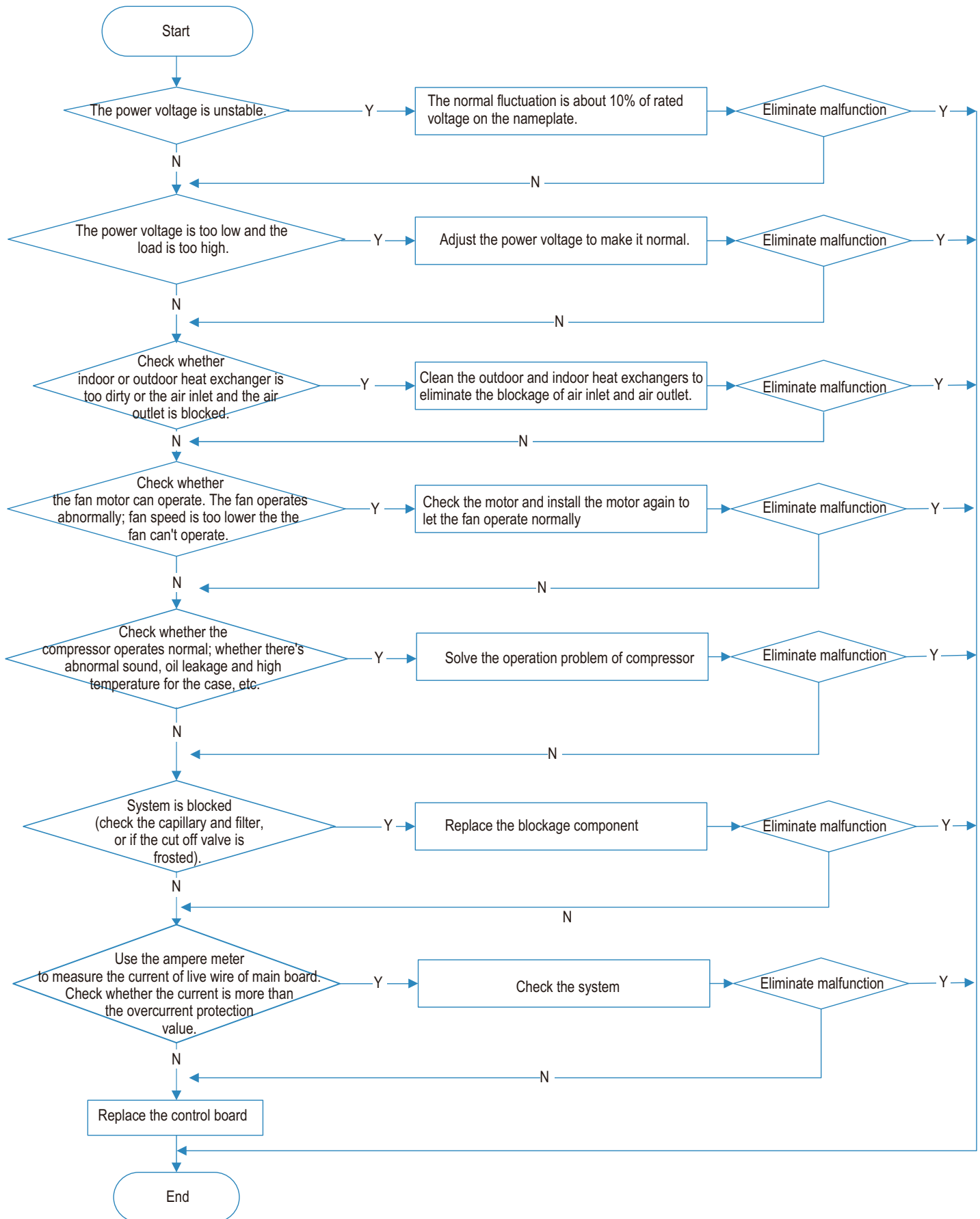
10.1 DC motor



10.2 PG motor



11. AC overcurrent protection E5



9.3 Troubleshooting for Normal Malfunction

1. Air Conditioner can't be Started Up

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
No power supply, or poor connection for power plug	After energization, operation indicator isn't bright and the buzzer can't give out sound	Confirm whether it's 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 isn't 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 rain-proof 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; Unit pressure is much lower than regulated range. If refrigerant isn't 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 can't swing	Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor	The IDU fan motor can't operate	Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor	The ODU fan motor can't operate	Refer to point 4 of maintenance method for details
Malfunction of compressor	Compressor can't operate	Refer to point 5 of maintenance method for details

3. Horizontal Louver can't 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 can't operate	Repair or replace stepping motor
Main board is damaged	Others are all normal, while horizontal louver can't operate	Replace the main board with the same model

4. ODU Fan Motor can't 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 can't 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 it's 0	Repair or replace compressor
Cylinder of compressor is blocked	Compressor can't 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


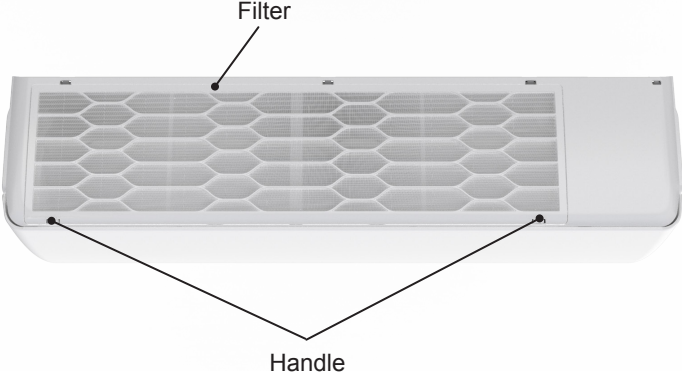
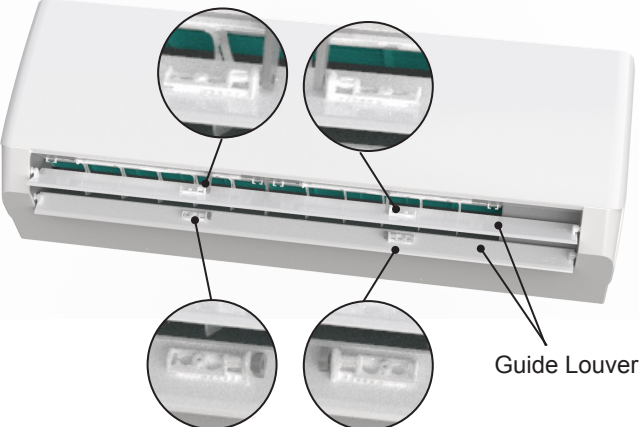
Possible causes	Discriminating method (air conditioner status)	Troubleshooting
When turn on or turn off the unit, the panel and other parts will expand and there's abnormal sound	There's the sound of "PAPA"	Normal phenomenon. Abnormal sound will disappear after a few minutes.
When turn on or turn off the unit, there's 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 there are parts touching together inside the indoor unit	There's 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 there are parts touching together inside the outdoor unit	There's 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.

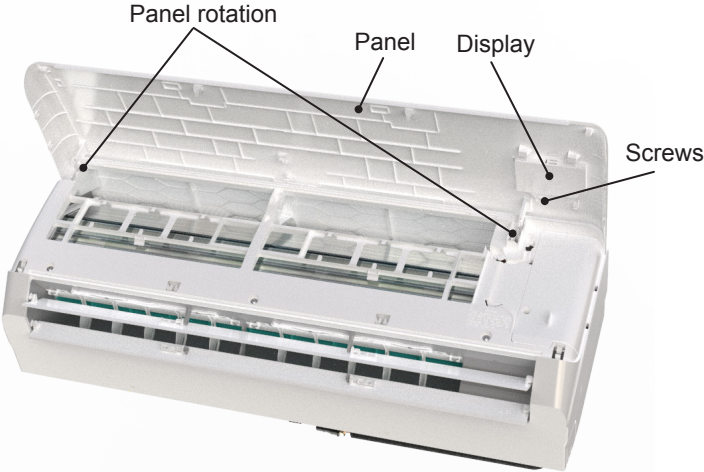
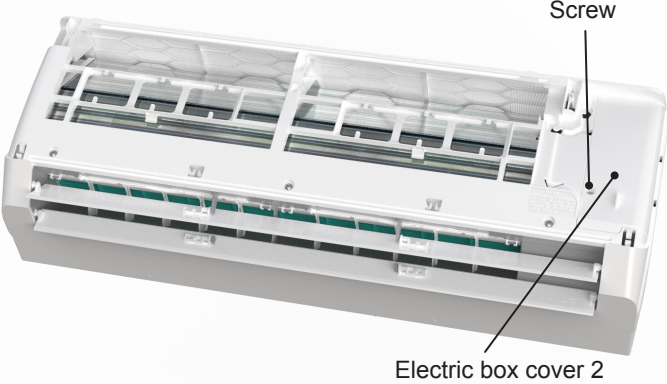
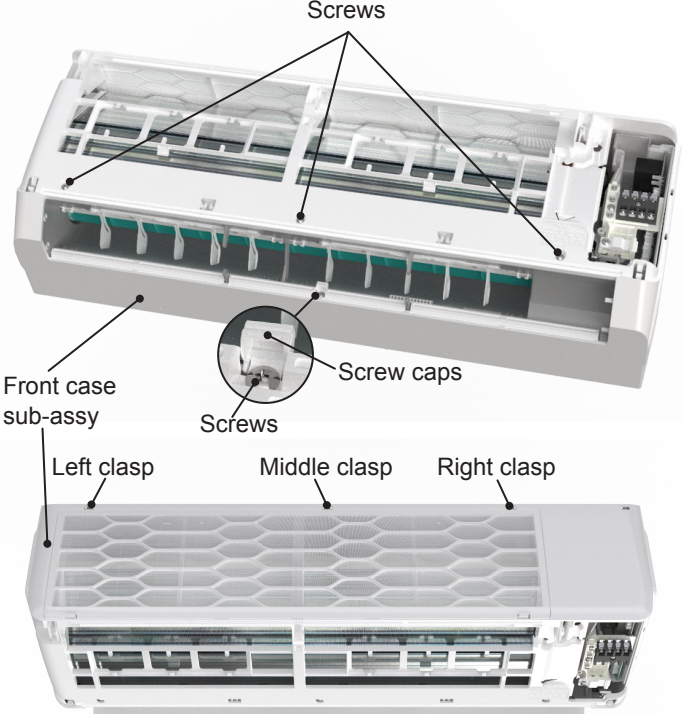
10. Removal Procedure


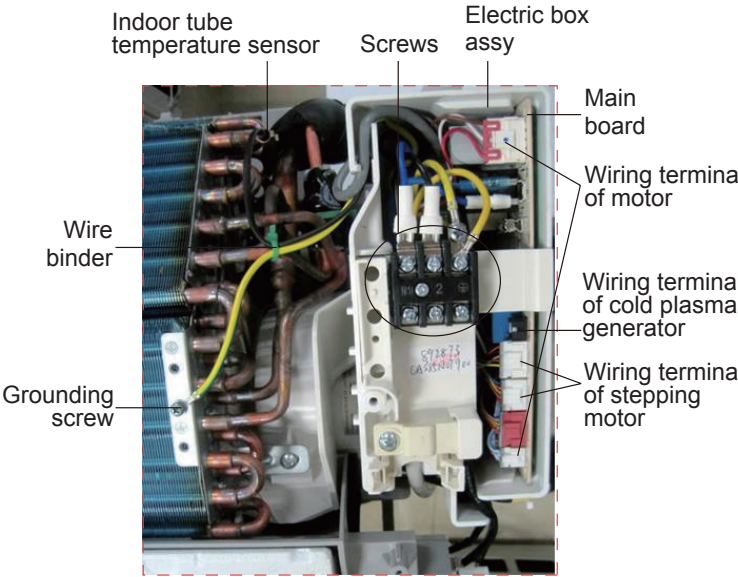
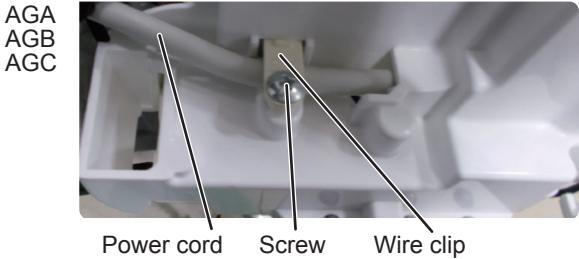
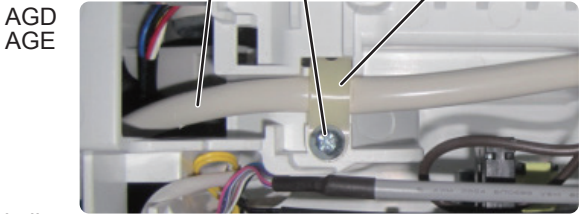
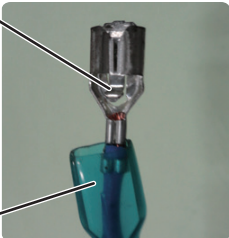
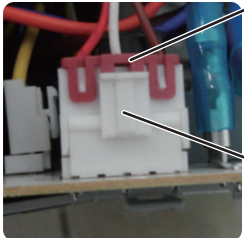
10.1 Removal Procedure of Indoor Unit

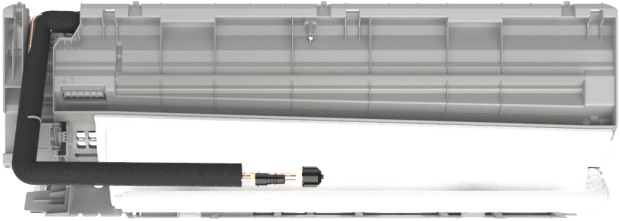
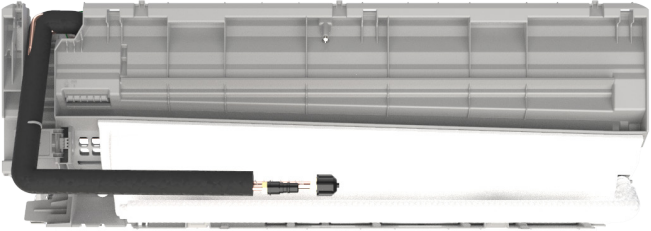
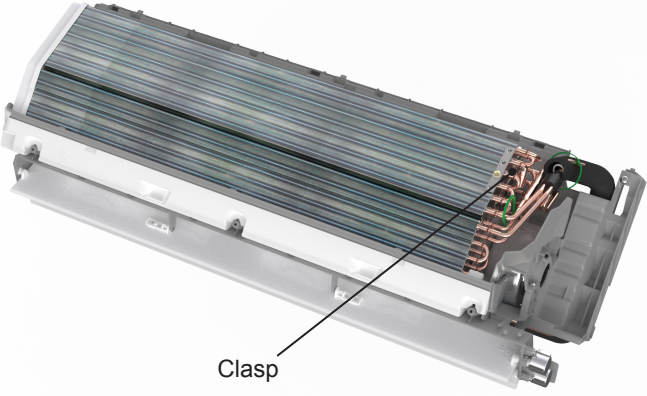
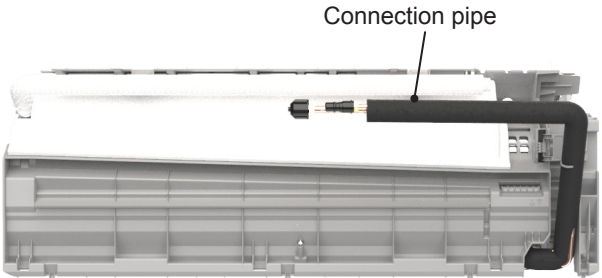
 **Caution:** discharge the refrigerant completely before removal.

Note: Take AGD model for example.

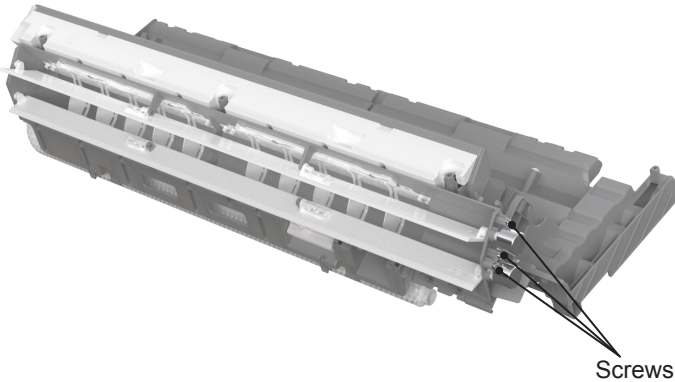
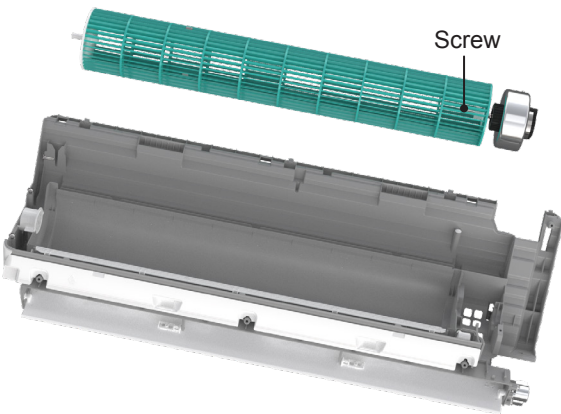
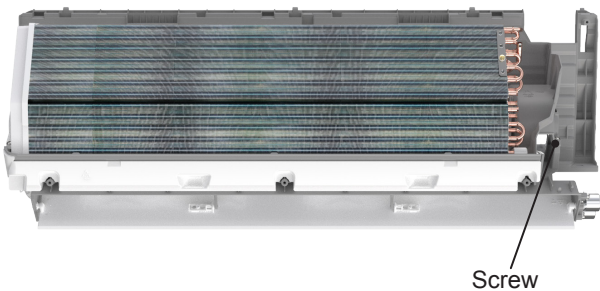
Step	Procedure
Before disassemble	
1. Remove filter	
2.Remove upper and lower guide louver	

Step	Procedure
<p>3.Remove panel</p>	<p>Open the front panel; separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.</p> <p>Note: The display of some models is fixed on the panel; unscrew the screws fixing the display on the panel before removing the panel.</p> 
<p>4.Remove electric box cover 2</p>	<p>Remove the screws on the electric box cover 2 to remove the electric box cover 2.</p> 
<p>5.Remove front case sub-assy</p> <p>a</p> <p>Remove the screws fixing front case.</p> <p>Note: (1) Open the screw caps before removing the screws around the air outlet. (2) The quantity of screws fixing the front case sub-assy is different for different models.</p> <p>b</p> <p>Loosen the clasps at left, middle and right sides of front case. Lift the front case sub-assy upwards to remove it.</p>	

Step	Procedure
6.Remove electric box assy	
a	<p>Remove the screw fixing electric box assy.</p>  <p>Step motor</p>
b	<p>① Cut off the wire binder and pull out the indoor tube temperature sensor. ② Screw off one grounding screw. ③ Remove the wiring terminals of motor, cold plasma generator and stepping motor. ④ Remove the electric box assy. ⑤ Screw off the screws that are locking each.</p>  <p>Indoor tube temperature sensor Screws Electric box assy Main board Wiring terminal of motor Wiring terminal of cold plasma generator Wiring terminal of stepping motor Wire binder Grounding screw</p>
c	<p>Rotate the electric box assy. Twist off the screws that are locking the wire clip and loosen the power cord. Remove the wiring terminal of power cord. Lift up the main board and take it off. (NOTE: This step is only available to the unit which is indoor power supply.)</p> <p>Instruction:Some wiring terminal of this products 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>  <p>AGA AGB AGC Power cord Screw Wire clip</p>  <p>AGD AGE Circlip Holder</p>  <p>Soft sheath</p>  <p>Connector</p>


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

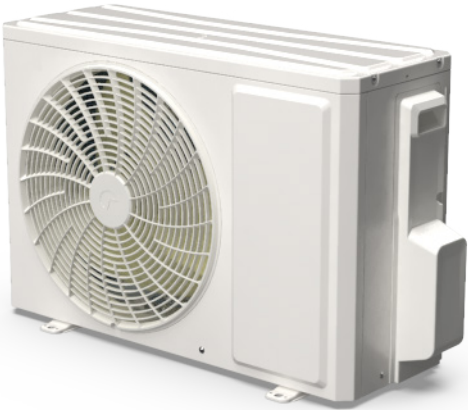


Step	Procedure
8. Remove motor and cross flow fan	
a	Remove 3 screws fixing motor clamp and then remove the motor clamp.
b	Loose the screws (2-3 circles) used for fixing the cross flow fan, pull right to pull out the motor.
9. Remove swing motor	
	Screw off the screws that are locking the swing motor and take the motor off.

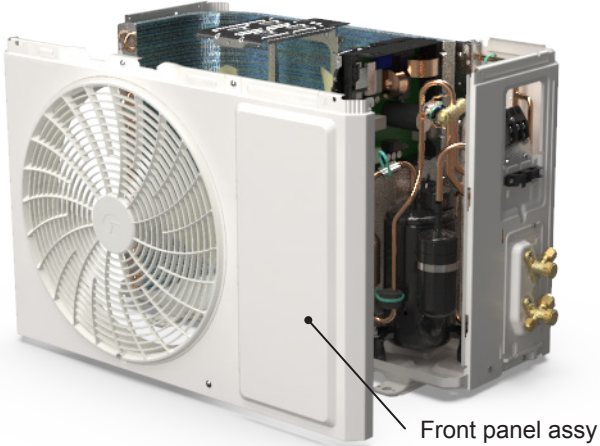

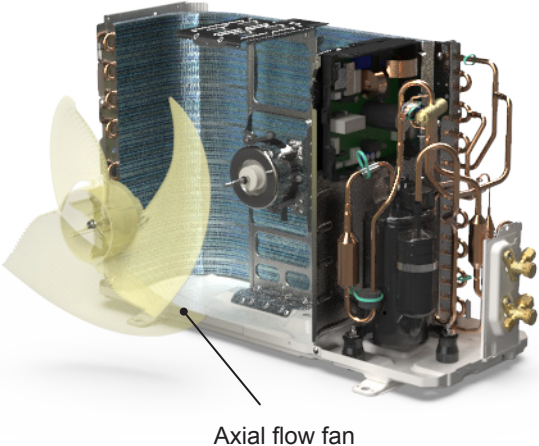


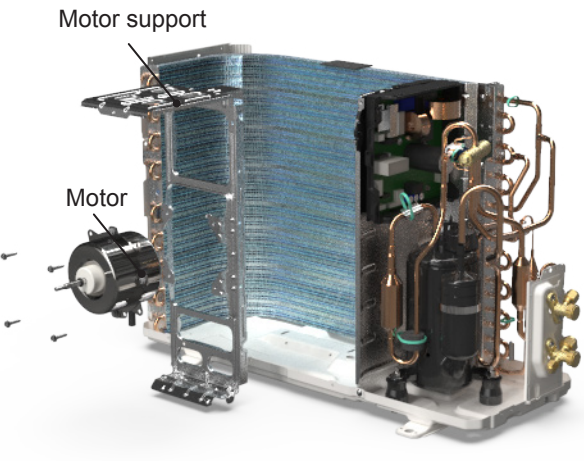
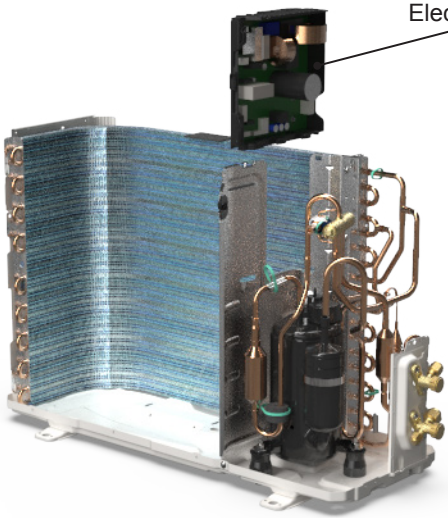
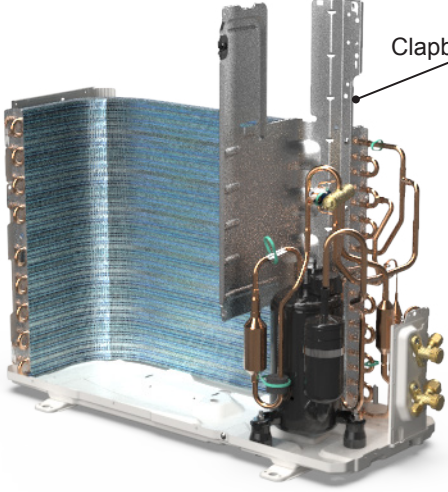
10.2 Removal Procedure of Outdoor Unit

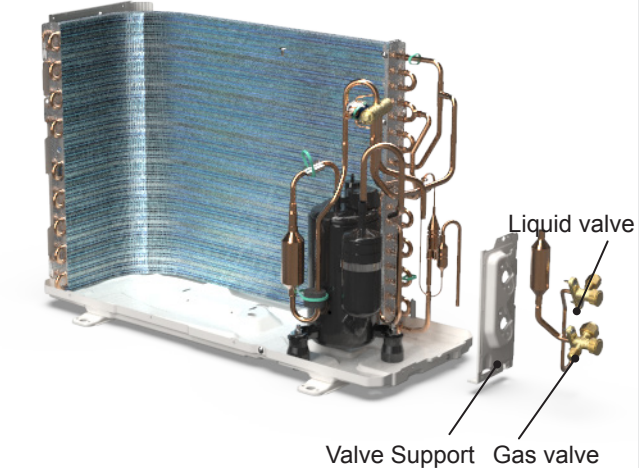
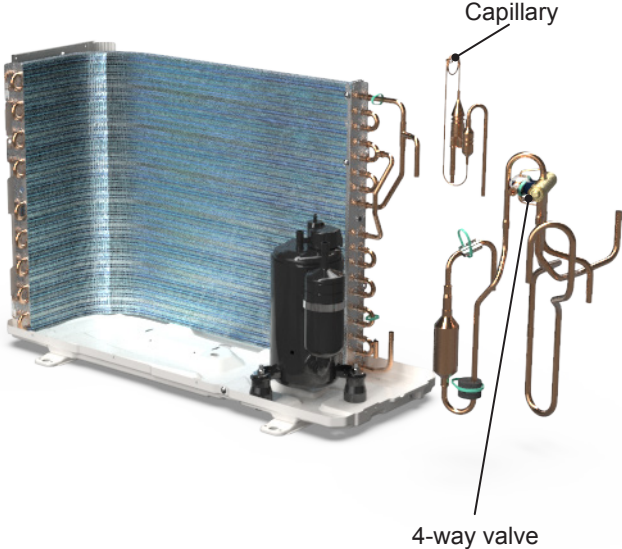
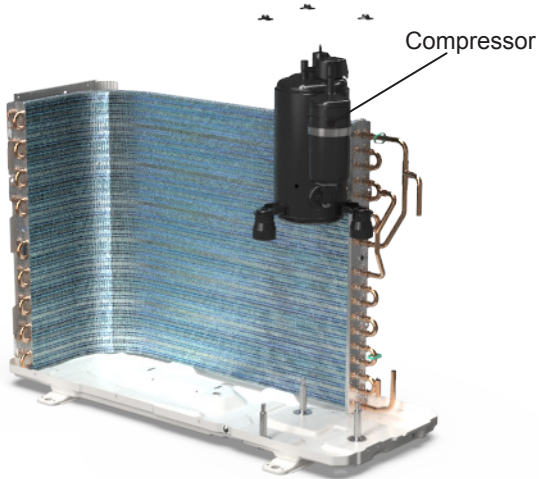
GWH07AGA-K6DNA1A/O

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

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

Step	Procedure
4. Remove front panel assy	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
5. Remove right side plate assy	<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> 
6. Remove axial flow fan	<p>Remove the nut on the fan and then remove the axial flow fan.</p> 

Step	Procedure
7. Remove motor support and motor	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> <p>Remove the screws fixing the motor and then remove the motor.</p>  <p>Motor support</p> <p>Motor</p>
8. Remove electric box assy	<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>Electric box assy</p>
9. Remove clapboard assy	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p>  <p>Clapboard assy</p>

Step	Procedure
<p>10. Remove gas valve and liquid valve</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>11. Remove 4-way valve and capillary</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>12. Remove compressor</p> <p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>	




GWH09AGBXB-K6DNA1A/O
GWH12AGBXB-K6DNA1A/O
GWH12AGBXB-K6DNA4C/O
GWH18AGDXB-K6DNA1Z/O
GWH09AWAXB-K6DNA1C/O


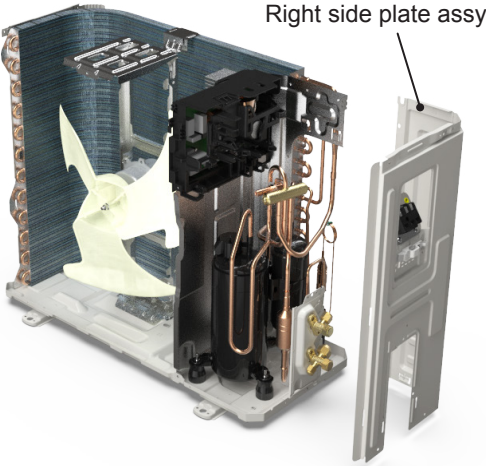
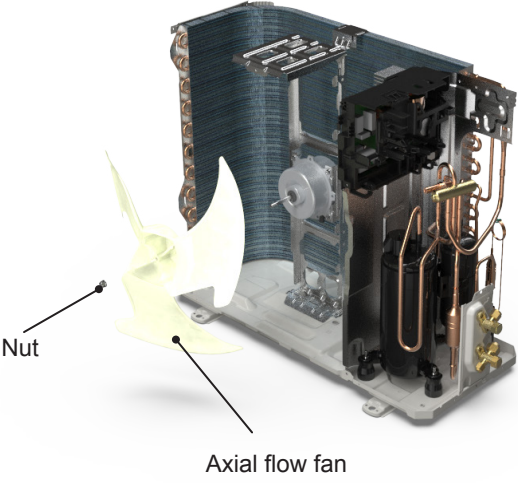
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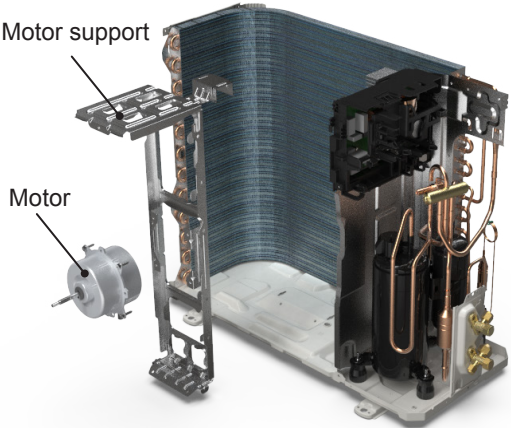
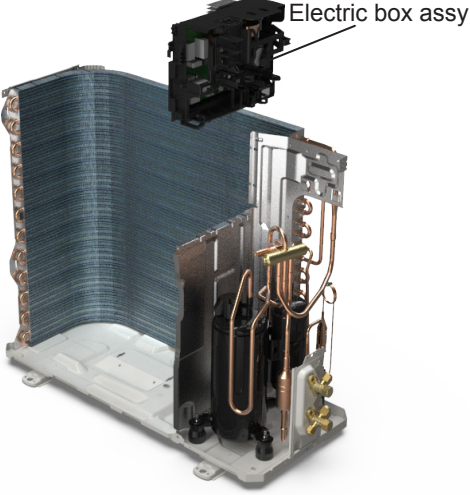
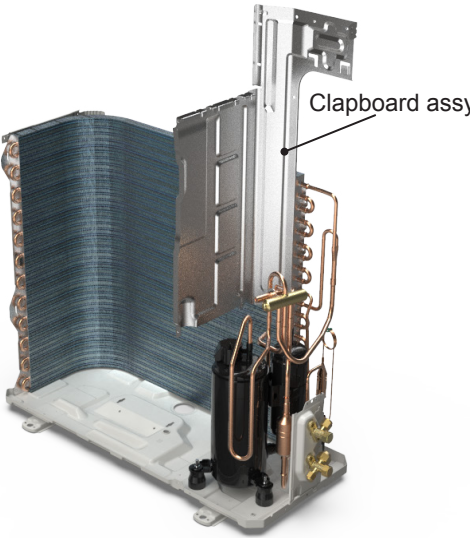
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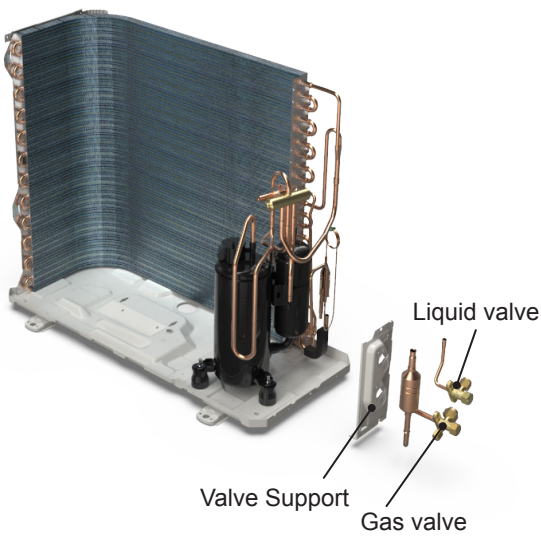
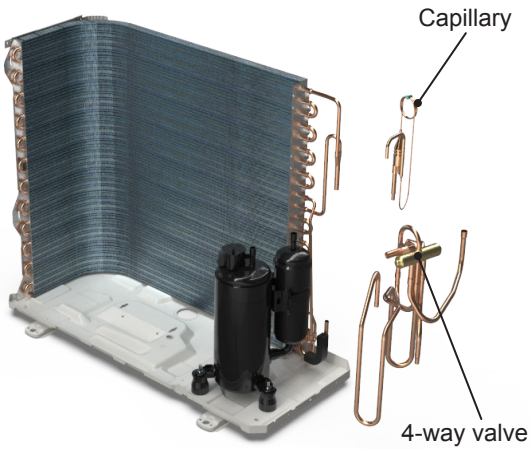
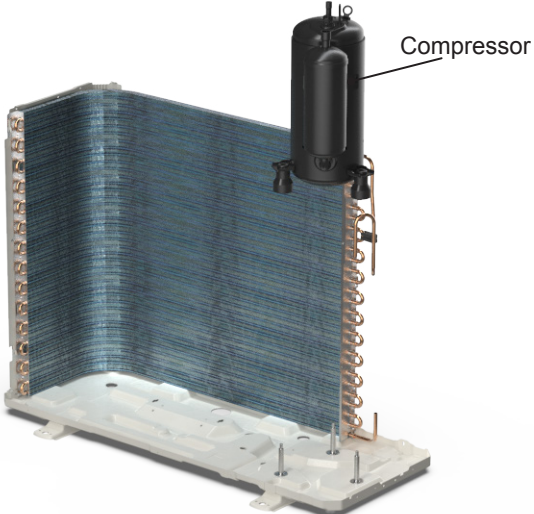
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Caution: discharge the refrigerant completely before removal.


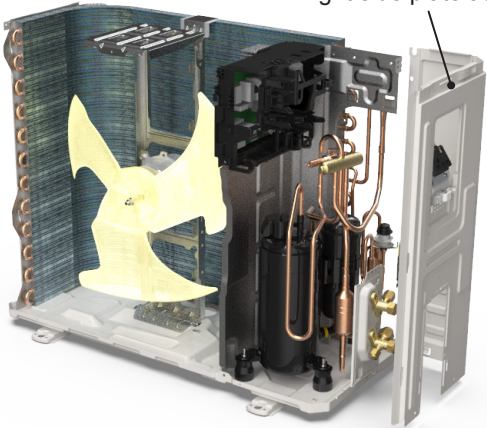
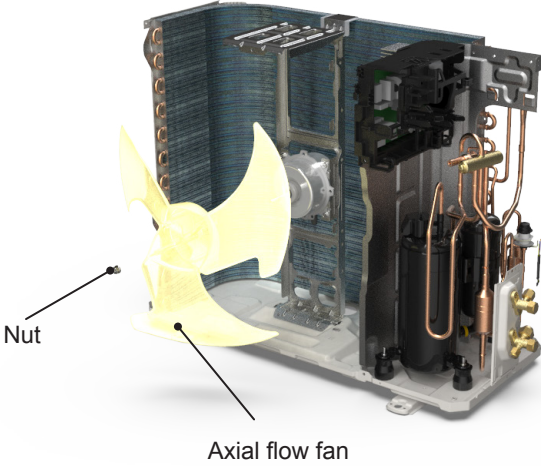
Step	Procedure	
1. Before disassembly		
2. Remove big handle and valve cover	<p>Remove the screws fixing big handle, valve cover and then remove them.</p>	
3. Remove top cover	<p>Remove the screws fixing top panel and then remove the top panel.</p>	

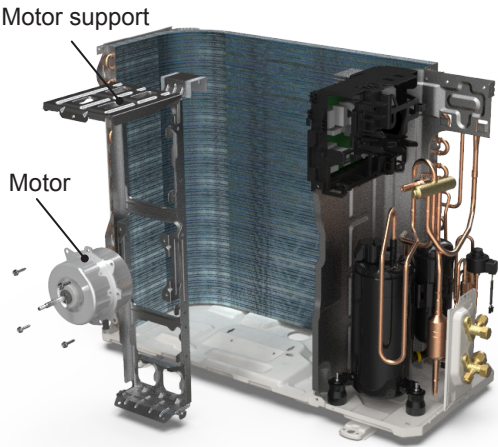
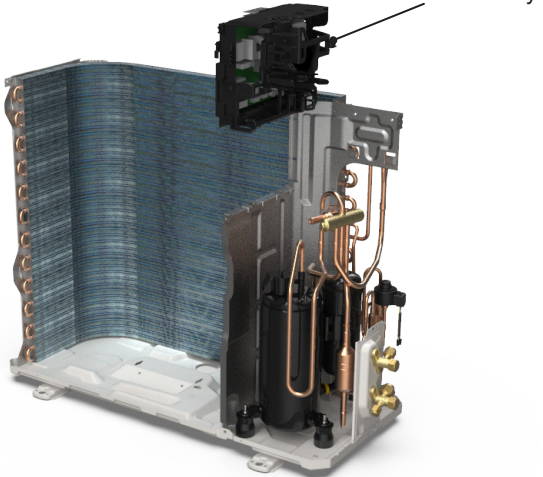
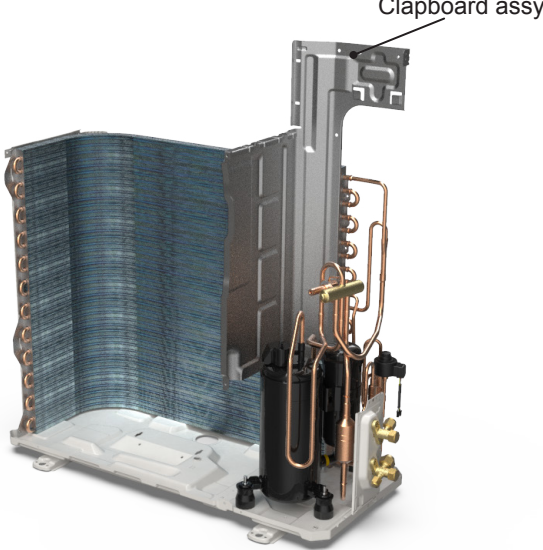
Step	Procedure
4. Remove front panel assy	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
5. Remove right side plate assy	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal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

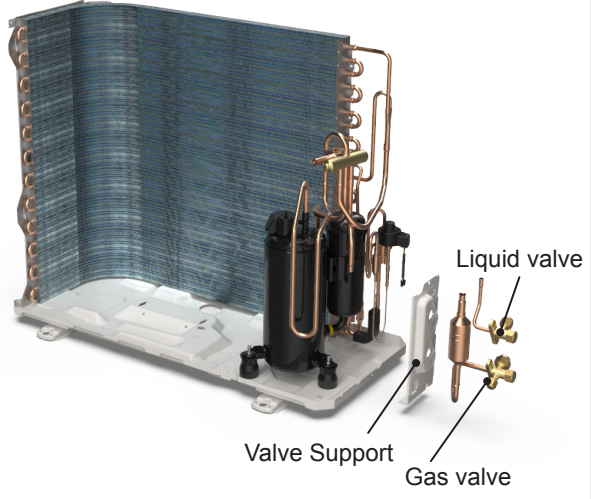
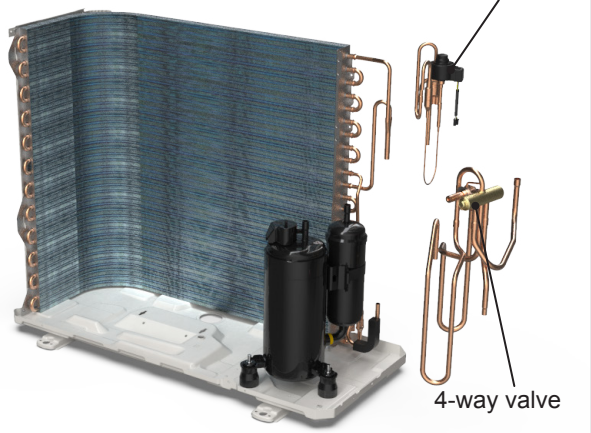
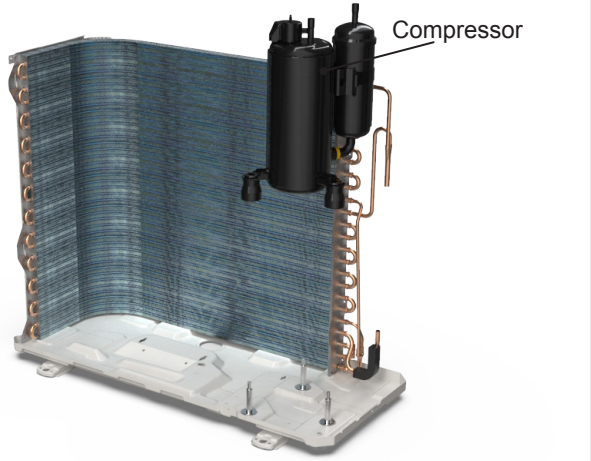
Step	Procedure
7. Remove motor support and motor	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> <p>Remove the screws fixing the motor and then remove the motor.</p> 
8. Remove electric box assy	<p>Remove the terminals, lift up and rotate the electrical box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




Step	Procedure
<p>10. Remove gas valve and liquid valve</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>11. Remove 4-way valve and capillary</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>12. Remove compressor</p> <p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>	

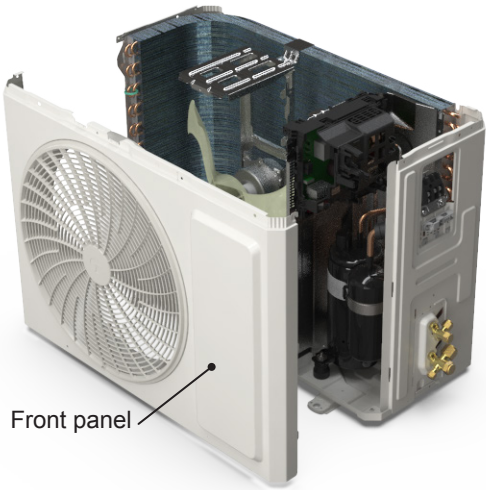
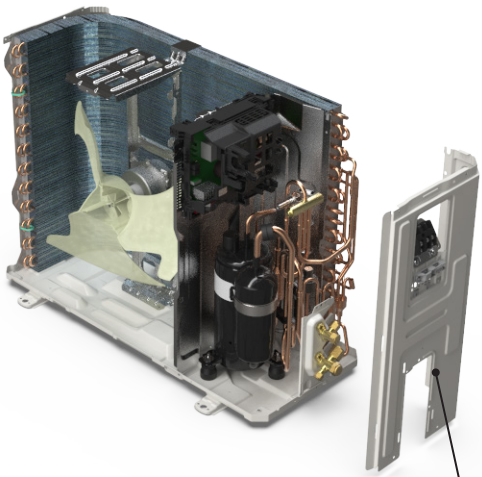
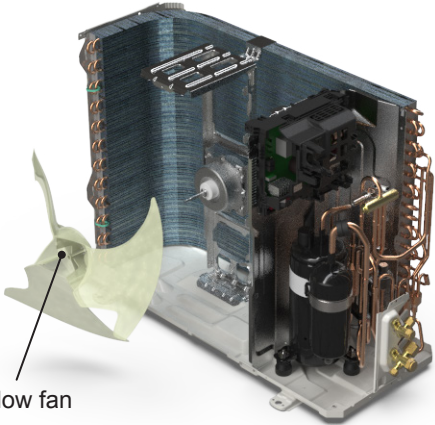
Step	Procedure
1. Before disassembly	
2. Remove big handle and valve cover	<div>Remove the screws fixing big handle, valve cover and then remove them.</div> 
3. Remove top cover	<div>Remove the screws fixing top panel and then remove the top panel.</div> 

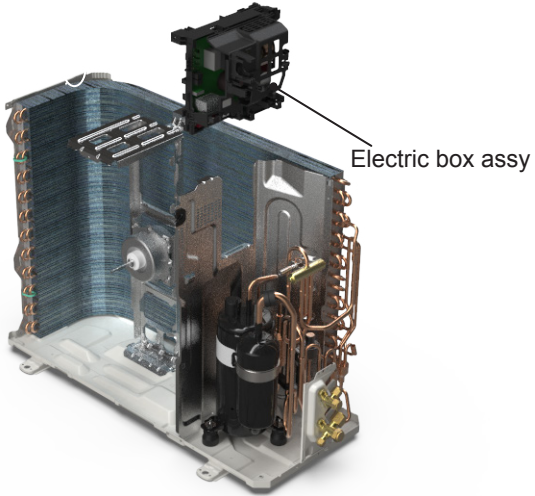
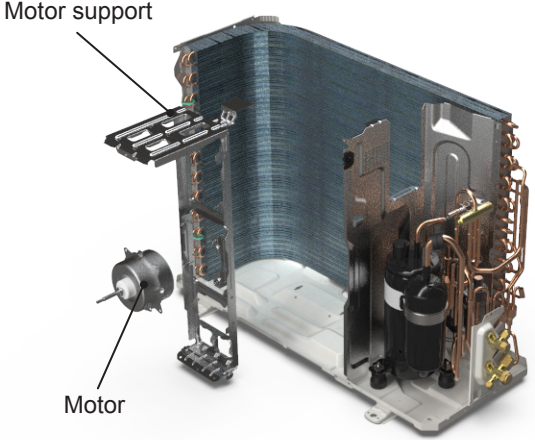
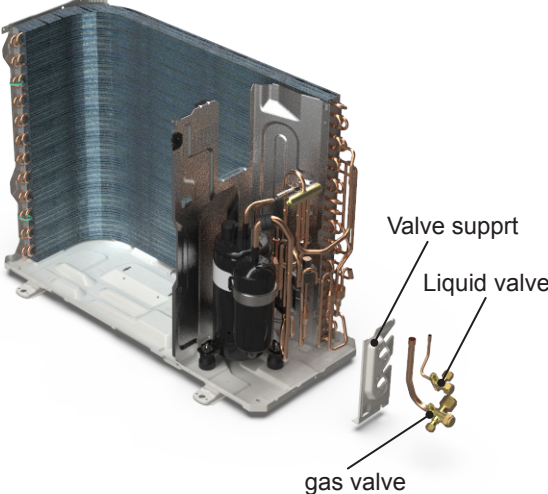
Step	Procedure
4. Remove front panel assy	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
5. Remove right side plate assy	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal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

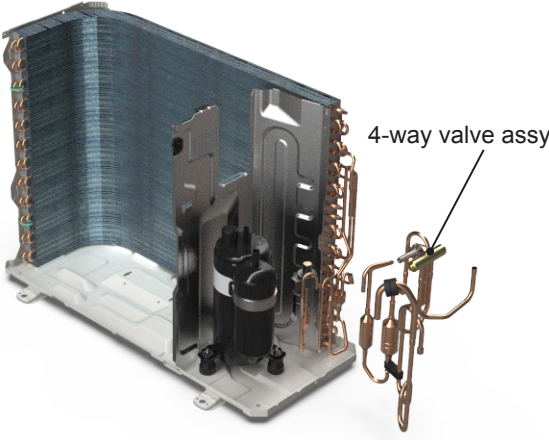
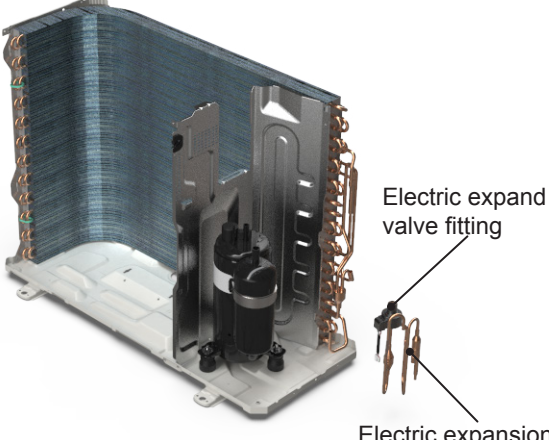
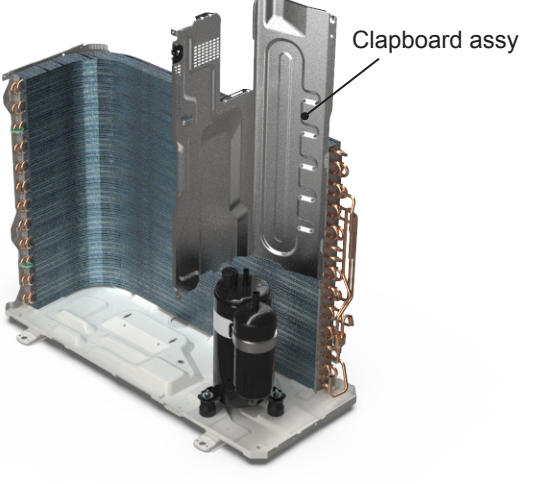
Step	Procedure
7. Remove motor support and motor	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> <p>Remove the screws fixing the motor and then remove the motor.</p> 
8. Remove electric box assy	<p>Remove the terminals, lift up and rotate the electrical box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

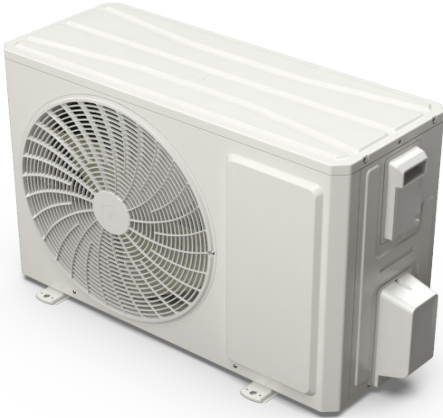
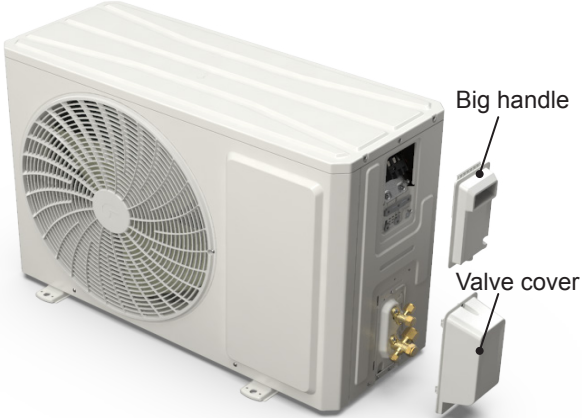

Step	Procedure
10. Remove gas valve and liquid valve	 <p>Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve,unsolder the welding joint connecting the gas valve and the liquid valve, remove them.</p> <p>Note: Discharge the refrigerant completely before unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>
11. Remove 4-way valve and electric expansion valve sub-Assy	 <p>Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.</p> <p>Unsolder the spot weld of electric expansion valve sub-Assy and condenser, and then remove the electric expansion valve sub-Assy.</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>When unsoldering the spot weld, wrap the electric expansion valve sub-Assy with wet cloth completely to avoid damaging the valve due to high temperature.</p>
12. Remove compressor	 <p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>

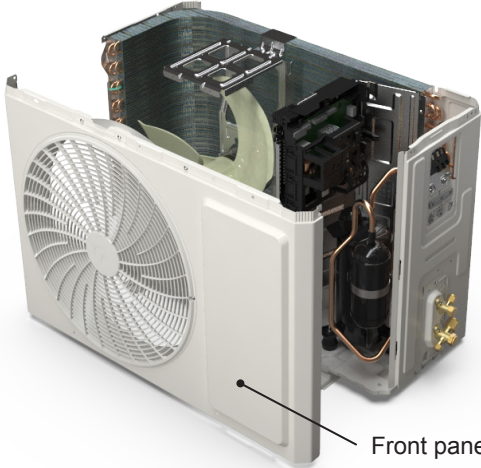
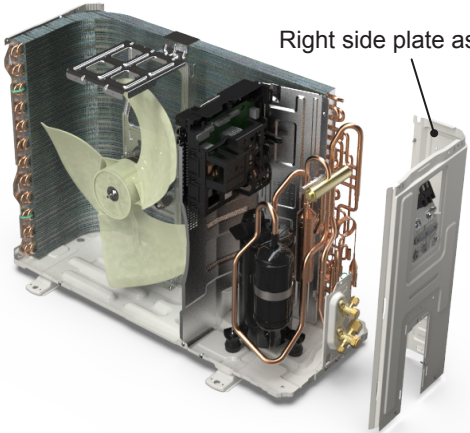
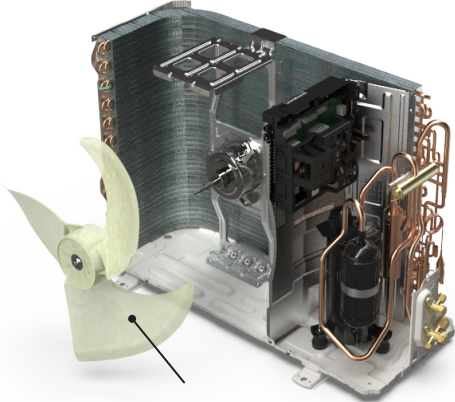
Step	Procedure
1. Before disassembly	
2. Remove big handle and valve cover	<div>Remove the screws fixing big handle, valve cover and then remove them.</div> 
3. Remove top cover	<div>Remove the screws fixing top panel and then remove the top panel.</div> 

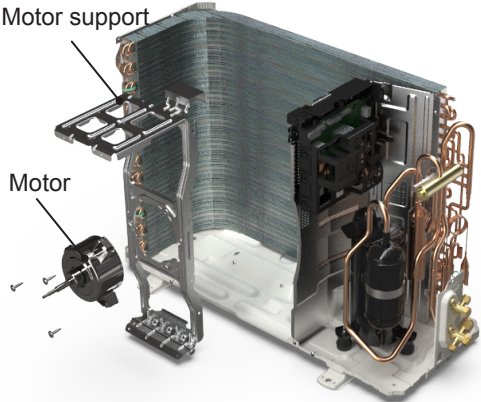
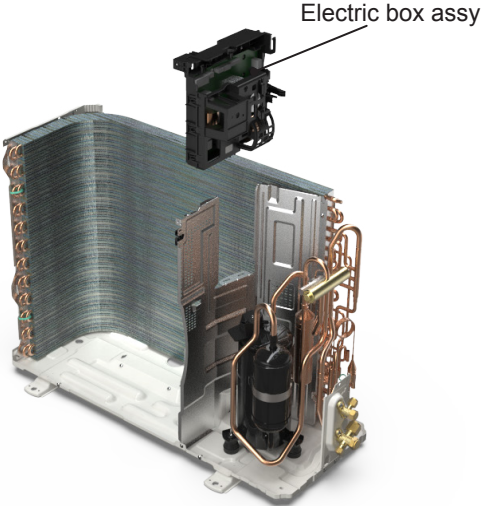
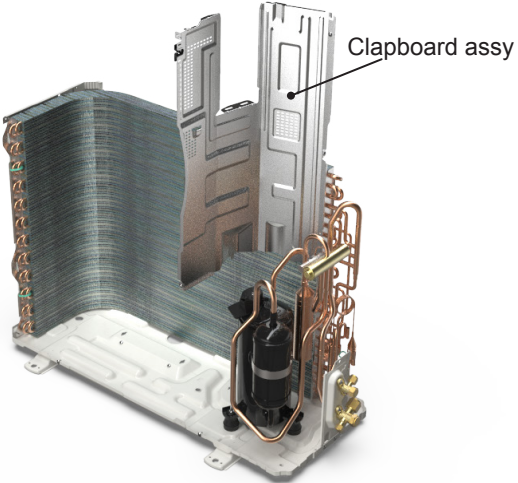
Step	Procedure
4. Remove front panel assy	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
5. Remove right side plate assy	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal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

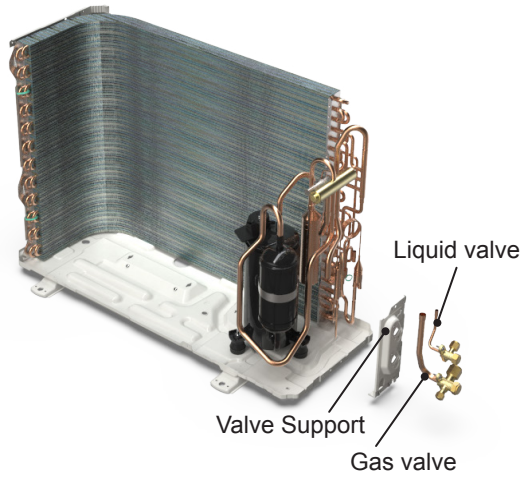
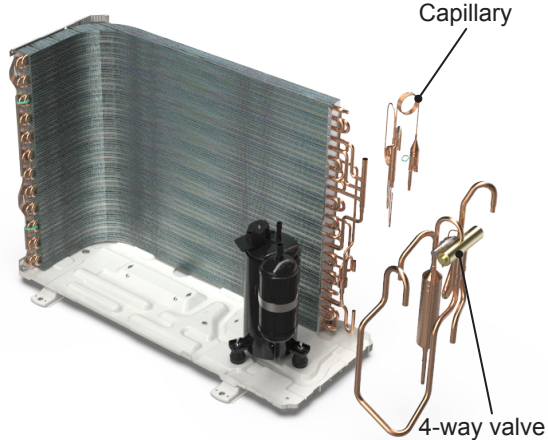
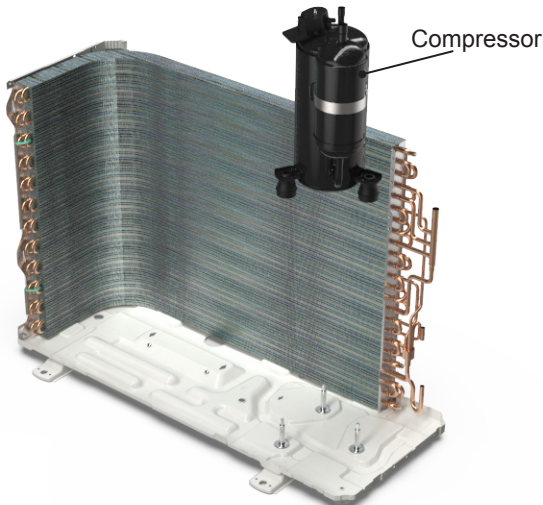
Step	Procedure
7. Remove electric box assy	<p>Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.</p> 
8. Remove motor and motor support	<p>Remove the screws fixing the motor and then remove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


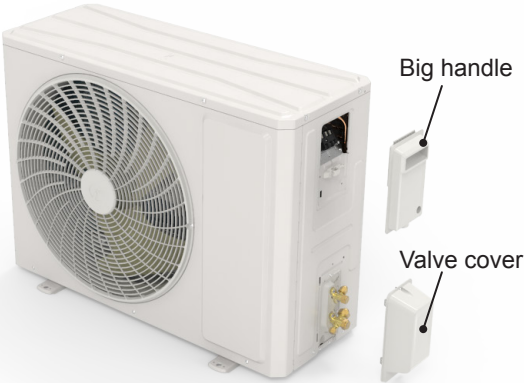

Step	Procedure
10. Remove 4-way valve assy	<p>Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.</p> <p>Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>  <p>4-way valve assy</p>
11. Remove electric expansion valve sub-Assy	<p>Unsolder the spot weld of electric expansion valve sub-Assy and condenser, and then remove the electric expansion valve sub-Assy.</p> <p>Note: When unsoldering the spot weld, wrap the electric expansion valve sub-Assy with wet cloth completely to avoid damaging the valve due to high temperature.</p>  <p>Electric expand valve fitting</p> <p>Electric expansion valve sub-Assy</p>
12. Remove clapboard assy	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p>  <p>Clapboard assy</p>

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

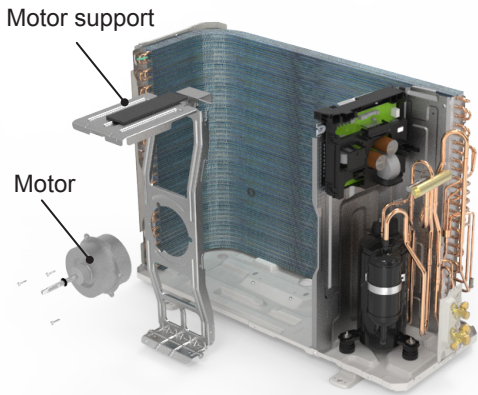


Step	Procedure
<p>4. Remove front panel assy</p> <p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p>	 <p>Front panel assy</p>
<p>5. Remove right side plate assy</p> <p>Rescrew the ground screws, remove the ground 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>Right side plate assy</p>
<p>6. Remove axial flow fan</p> <p>Remove the nut on the fan and then remove the axial flow fan.</p>	 <p>Axial flow fan</p>

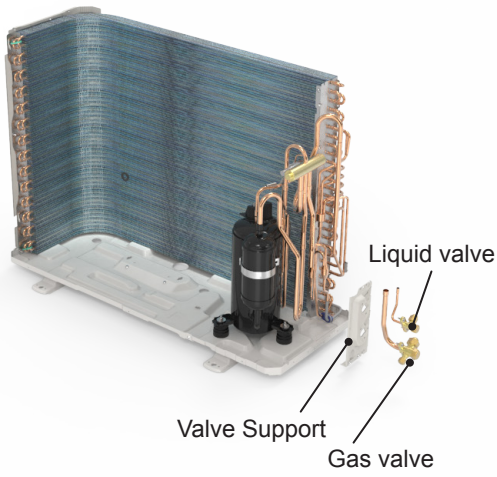
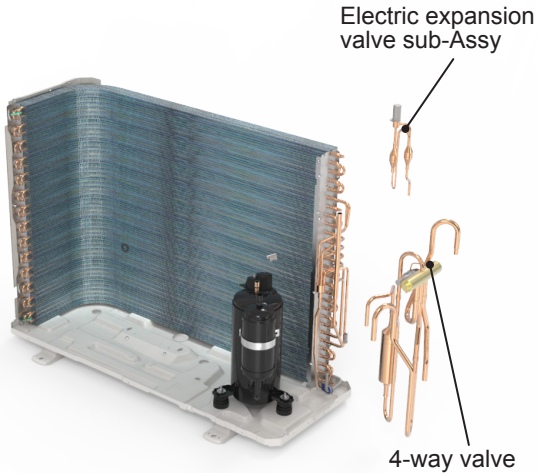
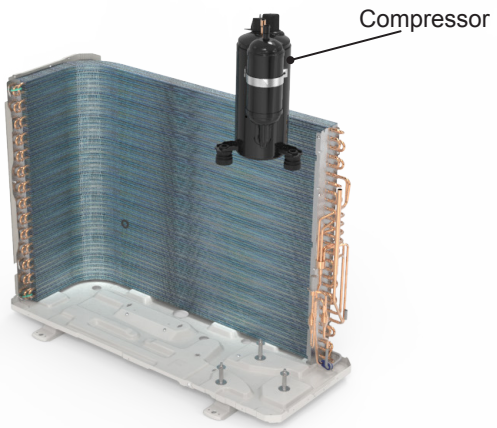
Step	Procedure
7. Remove motor support and motor	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> <p>Remove the screws fixing the motor and then remove the motor.</p>  <p>The diagram illustrates the removal of the motor support and motor. It shows a 3D view of the internal components of a device. A motor support bracket is shown being lifted away from the main unit. A motor is shown being removed from its base. Labels point to the 'Motor support' and 'Motor'.</p>
8. Remove electric box assy	<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>The diagram illustrates the removal of the electric box assembly. It shows a 3D view of the internal components of a device. The electric box assembly is shown being lifted up and rotated to the right, away from the main unit. A label points to the 'Electric box assy'.</p>
9. Remove clapboard assy	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p>  <p>The diagram illustrates the removal of the clapboard assembly. It shows a 3D view of the internal components of a device. The clapboard assembly is shown being lifted up and rotated to the right, away from the main unit. A label points to the 'Clapboard assy'.</p>

Step	Procedure
10. Remove gas valve and liquid valve	 <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>
11. Remove 4-way valve and capillary	 <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>
12. Remove compressor	 <p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>

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

Step	Procedure
4. Remove front panel assy	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
5. Remove right side plate assy	<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> 
6. Remove axial flow fan	<p>Remove the nut on the fan and then remove the axial flow fan.</p> 

Step	Procedure
7. Remove motor support and motor	<p>Remove the screws fixing the motor support and lift the motor support to remove it.</p> <p>Remove the screws fixing the motor and then remove the motor.</p> 
8. Remove electric box assy	<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> 
9. Remove clapboard assy	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p> 

Step	Procedure
10. Remove gas valve and liquid valve	 <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>
11. Remove 4-way valve and electric expansion valve sub-Assy	 <p>Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.</p> <p>Unsolder the spot weld of electric expansion valve sub-Assy and condenser, and then remove the electric expansion valve sub-Assy.</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>When unsoldering the spot weld, wrap the electric expansion valve sub-Assy with wet cloth completely to avoid damaging the valve due to high temperature.</p>
12. Remove compressor	 <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

- Standard length of connection pipe. (More details please refer to the specifications.)
- Min length of connection pipe for the unit with standard connection pipe of 5m, there is no limitation for themin length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.
- Max. length of connection pipe and max. high difference. (More details please refer to the specifications.)
- 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

Piping size		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

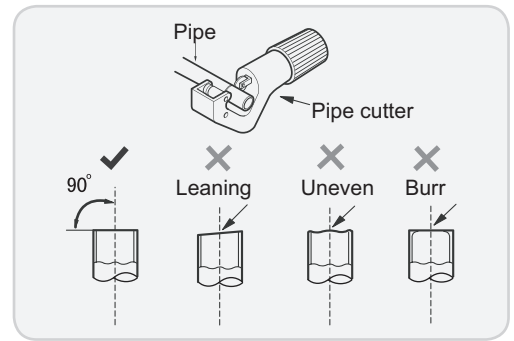
Appendix 3: Pipe Expanding Method

⚠ Note:

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

A: Cut the pipe

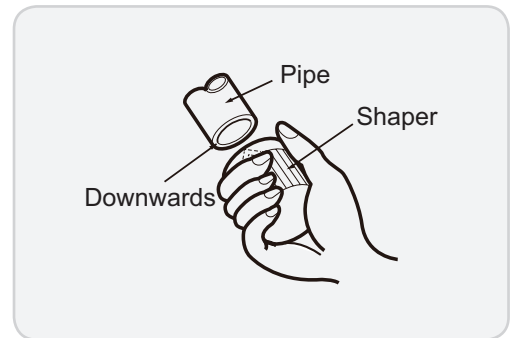
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B: Remove the burrs

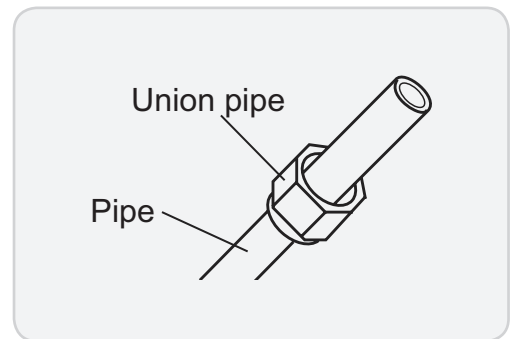
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.

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.



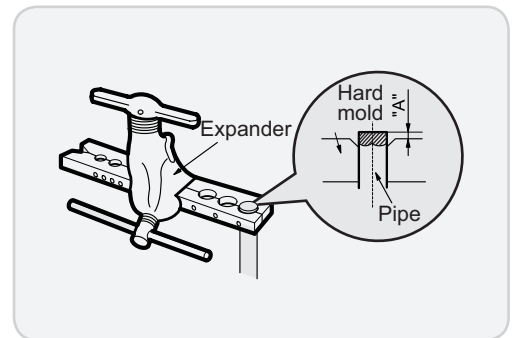
E: Expand the port

- Expand the port with expander.

⚠ Note:

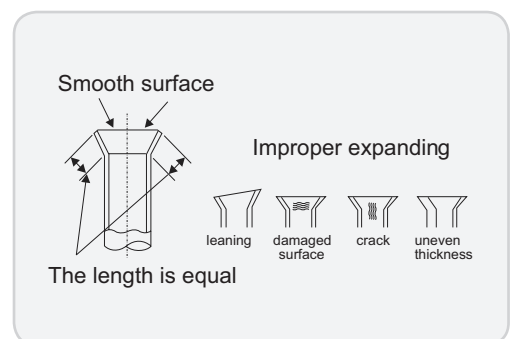
- "A" is different according to the diameter, please refer to the sheet below:

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)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	138.10	0	49.02	20	18.75	40	7.97
-18	128.60	2	44.31	22	17.14	42	7.35
-16	115.00	4	40.09	24	15.68	44	6.79
-14	102.90	6	36.32	26	14.36	46	6.28
-12	92.22	8	32.94	28	13.16	48	5.81
-10	82.75	10	29.90	30	12.07	50	5.38
-8	74.35	12	27.18	32	11.09	52	4.99
-6	66.88	14	24.73	34	10.20	54	4.63
-4	60.23	16	22.53	36	9.38	56	4.29
-2	54.31	18	20.54	38	8.64	58	3.99

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

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	181.40	20	25.01	60	4.95	100	1.35
-15	145.00	25	20.00	65	4.14	105	1.16
-10	110.30	30	16.10	70	3.48	110	1.01
-5	84.61	35	13.04	75	2.94	115	0.88
0	65.37	40	10.62	80	2.50	120	0.77
5	50.87	45	8.71	85	2.13	125	0.67
10	39.87	50	7.17	90	1.82	130	0.59
15	31.47	55	5.94	95	1.56	135	0.52

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

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-30	911.400	10	98	50	17.65	90	4.469
-25	660.8	15	77.35	55	14.62	95	3.841
-20	486.5	20	61.48	60	12.17	100	3.315
-15	362.9	25	49.19	65	10.18	105	2.872
-10	274	30	39.61	70	8.555	110	2.498
-5	209	35	32.09	75	7.224	115	2.182
0	161	40	26.15	80	6.129	120	1.912
5	125.1	45	21.43	85	5.222	125	1.682



JF00304999



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For product improvement, specifications and appearance in this manual are subject to change without prior notice.

