



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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1. Summary

Indoor Unit:

A1 panel

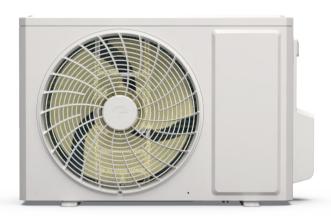


A3 panel

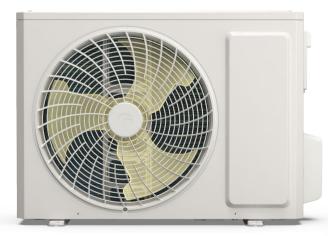


Outdoor Unit:

GWH07AGA-K6DNA1A/O



GWH18ATDXD-K6DNA1A/O



A2 panel

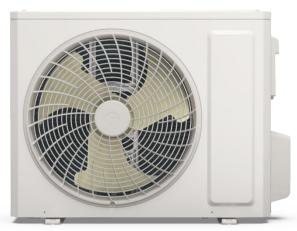


A4 panel



GWH09AGAXB-K6DNA1B/O GWH09ATCXB-K6DNA1A/O GWH12ATCXB-K6DNA1A/O GWH18ATDXB-K6DNA1A/O

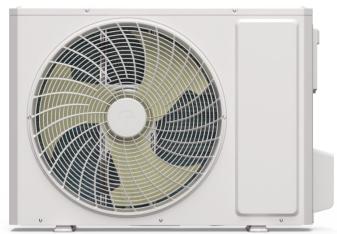
GWH09AGBXB-K6DNA1A/O GWH12ATBXB-K6DNA1D/O GWH12ATCXB-K6DNA1D/O



GWH24ATDXE-K6DNA1A/O



GWH24AFE-K6DNA2I/O



Remote Controller:

YAP1F7(WiFi)



YAY1F1



Model list:

No.	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1		CB574002000		CB574N02000		CB385W01100	00111101101
2	GWH07ATAXA-K6DNA1B	CB574002002	GWH07ATAXA-K6DNA1B/I	CB574N02000	•	CB385W01102	YAP1F7
3		CB574002003		CB574N02003	GWH07AGA-K6DNA1A/O		(WiFi)
4	CIANIDATATAVA KODALA AD	CB595002200	014/1107474374 1700414 40/1	CB595N02200		CB385W01100	
5	GWH07ATAXA-K6DNA4B	CB595002201	GWH07ATAXA-K6DNA4B/I	CB595N02201			YAY1F1
6	OWILLOOM TAND KORNIAAD	CB574000600	CVA/LICCATA VD LCCDAIA 4D/L	CB574N00600			
7	GWH09ATAXB-K6DNA1B	CB574000601	GWH09ATAXB-K6DNA1B/I	CB574N00601	CIAILIONA CAND KODALAADIO	CD205W00000	YAP1F7 (WiFi)
8	CVAULIONATA VID LYCIDALA AD	CB595002000	CVALLICO ATA VID. ICCDALA AD IL	CB595N02000	GWH09AGAXB-K6DNA1B/O	CB385W09900	(******)
9	GWH09ATAXB-K6DNA4B	CB595002001	GWH09ATAXB-K6DNA4B/I	CB595N02001			YAY1F1
10	GWH09ATBXB-K6DNA1B	CB574002100	GWH09ATBXB-K6DNA1B/I	CB574N02100	GWH09AGBXB-K6DNA1A/O	CB385W17100	
11	CM/LIOCATOVE MCDNIAAA	CB574000500	CVA/I IOOATOVD IZCDAIA 4A /I	ODEZANO0E00	CM/LIOCATOVE KODNIA (A /O	CB574W00500	
12	GWH09ATCXB-K6DNA1A	CB574000501	GWH09ATCXB-K6DNA1A/I	CB574N00500	GWH09ATCXB-K6DNA1A/O	CB574W00501	YAP1F7 (WiFi)
13	CWI 142A TRVR MEDNIA 1D	CB574000800	CW/142ATDVD KCDNA4D/I	CB574N00800	GWH12ATBXB-K6DNA1D/O	CB574W00800	
14	GWH12ATBXB-K6DNA1D	CB574000801	GWH12ATBXB-K6DNA1D/I	CB574N00801			
15	GWH12ATBXB-K6DNA4D	CB595002300	GWH12ATBXB-K6DNA4D/I	CB595N02300			YAY1F1
16	CWILIADATOVE KEDNIAAA	CB574000700	GWH12ATCXB-K6DNA1A/I	CB574N00700	GWH12ATCXB-K6DNA1A/O	CB574W00700	
17	GWH12ATCXB-K6DNA1A	CB574000701				CB574W00701	
18	GWH12ATCXB-K6DNA1D	CB574001800	GWH12ATCXB-K6DNA1D/I	CB574N01800	GWH12ATCXB-K6DNA1D/O	CDE74W04900	
19	GWH12ATCXB-K6DNA4D	CB595001900	GWH12ATCXB-K6DNA4D/I	CB595N01900	GWH IZATCAB-KODNATD/O	CB574W01800	
20	CIAII IACA TRIVE IACENIA AA	CB574002800	GWH18ATDXB-K6DNA1A/I	CB574N02800			
21	GWH18ATDXB-K6DNA1A	CB574002801	GWITTOATDAB-RODINATA/I	CB574N02801	GWH18ATDXB-K6DNA1A/O	CB574W02800	
22	GWH18ATDXB-K6DNA4A	CB595002100	GWH18ATDXB-K6DNA4A/I	CB595N02100			
23	GWH18ATDXD-K6DNA1A	CB574002700	GWH18ATDXD-K6DNA1A/I	CB574N02700	GWH18ATDXD-K6DNA1A/O	CB574W02700	
24	GWHTOATDAD-RODNATA	CB574002701	GWH TOAT DAD-RODINATA/I	CB374N02700	GWH TOAT DAD-RODNATA/O	CB574W02701	YAP1F7
25		CB574002900		CB574N02900			(WiFi)
26	GWH24ATDXE-K6DNA1A	CB574002901	GWH24ATDXE-K6DNA1A/I	CB574N02901			
27		CB574002902		CB574N02902			
28	GWH24ATDXE-K6DNA2A	CB585000100	GWH24ATDXE-K6DNA2A/I	CB585N00100	GWH24ATDXE-K6DNA1A/O	CB574W02900	
29	GWH24ATDXE-K6DNA3A	CB590001100	GWH24ATDXE-K6DNA3A/I	CB590N01100			
30	CM/124ATDVE KEDNIA4A	CB595000700	CVVII 124 ATDVE IZEDNIA 4 A /I	CB595N00700			
31	GWH24ATDXE-K6DNA4A	CB595000701	GWH24ATDXE-K6DNA4A/I	CB595N00701			
32	CWHOAATEVE KEDNAAA	CB574001900	CWHOAATEVE KEDMAAA	CD574N04000	CMH34VEE KEDNIVSHO	CB363W04100	
33	GWH24ATEXF-K6DNA1A	CB574001901	GWH24ATEXF-K6DNA1A/I	CB574N01900		CB363W04101	

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2. Specifications

2.1 Specification Sheet

Model		-	GWH07ATAXA-K6DNA1B GWH07ATAXA-K6DNA4B
Product	Code	-	CB574002000/CB574002002/CB574002003 CB595002200/CB595002201
_	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	2200
Heating	Capacity	W	2400
Cooling	Power Input	W	590
Heating	Power Input	W	590
Cooling	Power Current	Α	2.9
Heating	Power Current	Α	2.9
Rated Ir	nput	W	1300
Rated C	Cooling Current	Α	5
Rated H	leating Current	А	6
Air Flow	Volume	m³/h	500/470/450/420/310/290/250
Dehumi	difying 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/-
Applicat	ion Area	m ²	10-16
	Model of indoor unit	-	GWH07ATAXA-K6DNA1B/I GWH07ATAXA-K6DNA4B/I
	Indoor Unit Product Code	-	CB574N02000/CB574N02001/CB574N02003 CB595N02200/CB595N02201
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф92×505
	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	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
Orne	Evaporator Coil Length (LXDXW)	mm	509×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/33/29/25/22 Heating: 38/36/33/32/29/25/23
	Sound Power Level	dB (A)	Cooling: 55/49/46/45/41/37/34 Heating: 55/49/46/45/42/38/36
	Dimension (WXHXD)	mm	708X260X185
	Dimension of Carton Box (LXWXH)	mm	748X316X247
	Dimension of Package (LXWXH)	mm	753X332X258
	Net Weight	kg	7.5
	Gross Weight	kg	9

	Outdoor Unit Model	-	GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code	-	CB385W01100/CB385W01102
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N075zC170
	Compressor Oil	-	FW68DA
	Compressor Type	-	Rotary
	Compressor LRA.	Α	1
	Compressor RLA	Α	3
	Compressor Power Input	W	633
	Compressor Overload Protector	-	1
	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	Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	930±20
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	А	0.4
	Fan Motor Capacitor	μF	I
	Outdoor Unit Air Flow Volume	m³/h	1400
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф350
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	1
	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 Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Pipe	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH09ATAXB-K6DNA1B GWH09ATAXB-K6DNA4B
Product	Code	-	CB574000600/CB574000601 CB595002000/CB595002001
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
11.7	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	2500
Heating	Capacity	W	2800
Cooling	Power Input	W	680
Heating	Power Input	W	730
Cooling	Power Current	Α	3.1
Heating	Power Current	Α	3.2
Rated In	put	W	1500
Rated C	ooling Current	Α	6
Rated H	eating Current	А	7.5
Air Flow	Volume	m³/h	500/470/430/390/320/270/250
Dehumi	difying 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/-
Applicat	ion Area	m ²	10-16
	Model of indoor unit	-	GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA4B/I
	Indoor Unit Product Code	-	CB574N00600/CB574N00601 CB595N02000/CB595N02001
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф92×505
	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	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	509×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	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 (WXHXD)	mm	708X260X185
	Dimension of Carton Box (LXWXH)	mm	748X316X247
	Dimension of Package (LXWXH)	mm	753X332X258
	Net Weight	kg	7
	Gross Weight	kg	8.5

Technical Information • • • • • • • • • • • •

	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.	Α	15
	Compressor RLA	А	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector	-	1
	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	Ф7
	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
Outdoor Unit	Fan Motor RLA	А	0.4
Offic	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m ³ /h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	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 Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
, ipc	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH09ATBXB-K6DNA1B
Product Code		-	CB574002100
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
00000	Phases	-	1
Power S	supply Mode	-	Outdoor
Cooling	Capacity	W	2700
Heating	Capacity	W	2800
Cooling	Power Input	W	725
Heating	Power Input	W	685
Cooling	Power Current	Α	3.45
Heating	Power Current	А	3.19
Rated In	put	W	1500
Rated C	ooling Current	А	6
Rated H	eating Current	Α	7.5
Air Flow	Volume	m³/h	550/520/480/400/340/310/280
Dehumio	difying Volume	L/h	0.8
EER		W/W	3.72
СОР		W/W	4.09
SEER		-	6.8
SCOP (A	Average/Warmer/Colder)	-	4.2/5.3/-
Applicati	ion Area	m ²	10-16
	Model of indoor unit	-	GWH09ATBXB-K6DNA1B/I
	Indoor Unit Product Code	-	CB574N02100
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф92×580
	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	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor	Evaporator Row-fin Gap	mm	2-1.4
Unit	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 40/37/35/33/29/26/21
			Heating: 40/37/35/33/30/26/24 Cooling: 56/49/47/45/41/37/34
	Sound Power Level	dB (A)	Heating: 55/49/47/45/42/38/35
	Dimension (WXHXD)	mm	783X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

	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.	Α	15
	Compressor RLA	А	2.56
	Compressor Power Input	W	757
	Compressor Overload Protector	-	1
	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	Ф7
	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
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	_	Automatic Defrosting
	Climate Type	-	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side 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 Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter		
	p.pe applied metric didition		

Model		-	GWH09ATCXB-K6DNA1A
Product	Code	-	CB574000500 CB574000501
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	2700
Heating	Capacity	W	3000
Cooling	Power Input	W	680
Heating	Power Input	W	680
Cooling	Power Current	Α	3.2
Heating	Power Current	Α	3.2
Rated In	put	W	1400
Rated C	ooling Current	Α	6
Rated H	eating Current	Α	6.2
Air Flow	Volume	m³/h	610/530/500/440/380/310/280/180
Dehumi	difying Volume	L/h	0.8
EER		W/W	3.97
COP		W/W	4.41
SEER		-	8.4
SCOP (Average/Warmer/Colder)	-	4.5/5.6/3.5
Applicat	ion Area	m ²	12-18
	Model of indoor unit	-	GWH09ATCXB-K6DNA1A/I
	Indoor Unit Product Code	-	CB574N00500
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф94×630
	Cooling Speed	r/min	1250/1100/1050/950/800/700/650/500
	Heating Speed	r/min	1250/1100 /1040/950/900/880/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	Α	0.22
	Fan Motor Capacitor	μF	I
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor	Evaporator Row-fin Gap	mm	2-1.3
Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/31/26/24/22/21 Heating: 39/36/34/31/30/29/27
	Sound Power Level	dB (A)	Cooling: 58/50/48/45/40/38/36/35 Heating: 58/50/48/45/44/43/41
	Dimension (WXHXD)	mm	835X275X200
	Dimension of Carton Box (LXWXH)	mm	890X329X260
	Dimension of Package (LXWXH)	mm	895X345X271
	Net Weight	kg	9
	Gross Weight	kg	11

Technical Information • • • • • • • • • •

	Outdoor Unit Model	-	GWH09ATCXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W00500 CB574W00501
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A082zC170
	Compressor Oil	-	ZE-G;ES RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	15
	Compressor RLA	А	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector	-	1
	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 -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
Outdoor	Fan Motor RLA	A	0.4
Unit	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	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side 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	24.5
	Gross Weight	kg	27
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.51
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
-I	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH12ATBXB-K6DNA1D GWH12ATBXB-K6DNA4D
Product	Code	-	CB574000800/CB574000801 CB595002300
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	3200
Heating	Capacity	W	3400
Cooling	Power Input	W	991
Heating	Power Input	W	916
Cooling	Power Current	Α	4.4
Heating	Power Current	Α	4
Rated In	put	W	1500
Rated C	ooling Current	Α	6
Rated H	eating Current	Α	7.5
Air Flow	Volume	m³/h	590/520/480/400/350/320/280
Dehumi	difying 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/-
Applicat	ion Area	m ²	15-22
	Model of indoor unit	-	GWH12ATBXB-K6DNA1D/I GWH12ATBXB-K6DNA4D/I
	Indoor Unit Product Code	-	CB574N00800/CB574N00801 CB595N02300
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф92×580
	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	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	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: 55/49/47/45/42/38/36 Heating: 53/49/47/45/43/40/37
	Dimension (WXHXD)	mm	783X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

	Outdoor Unit Model	_	GWH12ATBXB-K6DNA1D/O
	Outdoor Unit Product Code	-	CB574W00800
	Compressor Manufacturer	_	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	_	QXF-N088zC170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	_	Rotary
	Compressor LRA.	Α	/
	Compressor RLA	А	3.6
	Compressor Power Input	W	758
	Compressor Overload Protector	-	1
	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
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method	_	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side		7.0
	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 Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
ı ıþe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH12ATCXB-K6DNA1A	
Product Code		-	CB574000700 CB574000701	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	3510	
Heating	Capacity	W	3810	
Cooling	Power Input	W	962	
Heating	Power Input	W	953	
Cooling	Power Current	Α	4.6	
Heating	Power Current	Α	4.7	
Rated In	put	W	1800	
Rated C	ooling Current	Α	6.9	
Rated H	eating Current	Α	8	
Air Flow	Volume	m³/h	650/580/530/440/380/330/310	
Dehumi	difying 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	
Applicat	ion Area	m ²	16-24	
	Model of indoor unit	-	GWH12ATCXB-K6DNA1A/I	
	Indoor Unit Product Code	-	CB574N00700	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф94×630	
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/750	
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850	
	Fan Motor Power Output	W	15	
	Fan Motor RLA	Α	0.2	
	Fan Motor Capacitor	μF	1	
	Evaporator Form	-	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
Indoor	Evaporator Row-fin Gap	mm	2-1.3	
Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×266.7	
	Swing Motor Model	-	MP24HF/MP24HF	
	Swing Motor Power Output	W	1.5/1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 43/39/37/34/31/28/25 Heating: 41/38/36/34/32/29/27	
	Sound Power Level	dB (A)	Cooling: 59/51/49/46/43/40/37 Heating: 55/52/50/48/46/43/41	
	Dimension (WXHXD)	mm	835X275X200	
	Dimension of Carton Box (LXWXH)	mm	890X329X260	
	Dimension of Package (LXWXH)	mm	895X345X271	
	Net Weight	kg	9	
	Gross Weight	kg	11	

	Outdoor Unit Model	-	GWH12ATCXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W00700 CB574W00701
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-AN108ACBD
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	/
	Compressor RLA	Α	4.4
	Compressor Power Input	W	
	Compressor Overload Protector	-	1
	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 -15~30
	Condenser Form	_	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	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
Outdoor	Fan Motor RLA	Α	0.4
Unit	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	_	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side Permissible Excessive Operating Pressure for	MPa	2.5
	the Suction Side		
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	62
	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	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
onnection Pipe	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH12ATCXB-K6DNA1D GWH12ATCXB-K6DNA4D
Product Code		-	CB574001800 CB595001900
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	3200
Heating	Capacity	W	3400
Cooling	Power Input	W	933
Heating	Power Input	W	872
Cooling	Power Current	А	4.14
Heating	Power Current	А	3.87
Rated In	nput	W	1500
Rated C	Cooling Current	А	6.5
Rated H	leating Current	Α	7.5
Air Flow	Volume	m³/h	650/550/470/420/380/350/310
Dehumid	difying Volume	L/h	1.4
EER		W/W	3.43
COP		W/W	3.90
SEER		-	6.5
SCOP (A	SCOP (Average/Warmer/Colder)		4.1/5.1/-
Applicati	Application Area		15-22
	Model of indoor unit	-	GWH12ATCXB-K6DNA1D/I GWH12ATCXB-K6DNA4D/I
	Indoor Unit Product Code	-	CB574N01800 CB595N01900
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф94×630
	Cooling Speed	r/min	1350/1100/1000/950/900/800/750
	Heating Speed	r/min	1350/1100/1000/950/900/850/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	Α	0.3
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	-	Aluminum Fin-copper Tube
Indoor	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.3
	Evaporator Coil Length (LXDXW)	mm	634×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 42/38/35/33/29/26/23 Heating: 42/37/35/33/30/26/25
	Sound Power Level	dB (A)	Cooling: 59/50/47/45/41/38/35 Heating: 59/49/47/45/42/38/37
	Dimension (WXHXD)	mm	835X275X200
	Dimension of Carton Box (LXWXH)	mm	890X329X260
	Dimension of Package (LXWXH)	mm	895X345X271
	Net Weight	kg	9
	Gross Weight	kg	11

	Outdoor Unit Model	_	GWH12ATCXB-K6DNA1D/O
	Outdoor Unit Product Code	-	CB574W01800
	Compressor Manufacturer	_	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N088zC170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	1
	Compressor RLA	А	3.6
	Compressor Power Input	W	758
	Compressor Overload Protector	-	1
	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
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	_	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side 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	- "9	R32
	Refrigerant Charge	kg	0.59
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter		20
	Troto. The connection pipe applies metric diamete	···	

Model		-	GWH18ATDXB-K6DNA1A GWH18ATDXB-K6DNA4A		
Product Code		-	CB574002800/CB574002801 CB595002100		
	Rated Voltage	V~	220-240		
Power Supply	Rated Frequency	Hz	50		
Cuppiy	Phases	-	1		
Power S	Supply Mode	-	Outdoor		
Cooling	Capacity	W	4600		
Heating	Capacity	W	5200		
Cooling	Power Input	W	1353		
Heating	Power Input	W	1334		
Cooling	Power Current	Α	6.2		
Heating	Power Current	Α	6.1		
Rated In	put	W	1900		
Rated C	ooling Current	Α	8.5		
Rated H	eating Current	Α	8.5		
Air Flow	Volume	m³/h	1000/960/870/810/720/640/600		
Dehumid	difying Volume	L/h	1.8		
EER		W/W	3.40		
COP		W/W	3.90		
SEER		-	7.2		
SCOP (Average/Warmer/Colder)	-	4.0/5.1/-		
Applicati	Application Area		21-31		
	Model of indoor unit	-	GWH18ATDXB-K6DNA1A/I GWH18ATDXB-K6DNA4A/I		
	Indoor Unit Product Code	-	CB574N02800/CB574N02801 CB595N02100		
	Fan Type	-	Cross-flow		
	Fan Diameter Length(DXL)	mm	Ф108х691		
	Cooling Speed	r/min	1200/1100/1030/960/800/700/650		
	Heating Speed	r/min	1200/1150/1040/950/900/880/800		
	Fan Motor Power Output	W	45		
	Fan Motor RLA	Α	0.25		
	Fan Motor Capacitor	μF	l l		
	Evaporator Form	-	Aluminum Fin-copper Tube		
ladaas	Evaporator Pipe Diameter	mm	Ф5		
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.2		
	Evaporator Coil Length (LXDXW)	mm	700×22.8×381		
	Swing Motor Model	-	MP35CJ/MP24HF		
	Swing Motor Power Output	W	2.5/1.5		
	Fuse Current	Α	3.15		
	Sound Pressure Level	dB (A)	Cooling: 47/45/43/41/35/30/28 Heating: 46/44/41/38/37/36/33		
	Sound Power Level	dB (A)	Cooling: 60/58/56/54/48/44/41 Heating: 60/58/55/52/51/50/47		
	Dimension (WXHXD)	mm	943X333X246		
	Dimension of Carton Box (LXWXH)	mm	996X397X312		
	Dimension of Package (LXWXH)	mm	1001X405X322		
	Net Weight	kg	13		
	Gross Weight	kg	15.5		

	Outdoor Unit Model	-	GWH18ATDXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02800
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-AN108ACBD
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	19
	Compressor RLA	Α	4.4
	Compressor Power Input	W	952
	Compressor Overload Protector	-	I
	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	Ф7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	1000
0	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
	Fan Motor Capacitor	μF	I
	Outdoor Unit Air Flow Volume	m³/h	2100
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф420
	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	27.5
	Gross Weight	kg	30
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.77
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Pipe	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH18ATDXD-K6DNA1A
Product Code		-	CB574002700 CB574002701
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	5300
Heating	Capacity	W	5600
Cooling	Power Input	W	1501
Heating	Power Input	W	1393
Cooling	Power Current	Α	7.2
Heating	Power Current	А	6.3
Rated In	put	W	2350
Rated C	ooling Current	Α	10
Rated H	eating Current	Α	10.5
Air Flow	Volume	m³/h	1000/960/870/810/720/640/600
Dehumid	difying Volume	L/h	1.8
EER		W/W	3.53
COP		W/W	4.02
SEER		-	7.3
SCOP (A	Average/Warmer/Colder)	-	4.2/5.7/3.4
Applicati	ion Area	m²	23-34
	Model of indoor unit	-	GWH18ATDXD-K6DNA1A/I
	Indoor Unit Product Code	-	CB574N02700
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф108х691
	Cooling Speed	r/min	1200/1100/1030/960/800/700/650
	Heating Speed	r/min	1200/1150/1040/980/930/880/800
	Fan Motor Power Output	W	45
	Fan Motor RLA	Α	0.25
	Fan Motor Capacitor	μF	/
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
	Evaporator Row-fin Gap	mm	2-1.2
Unit	Evaporator Coil Length (LXDXW)	mm	700×22.8×381
	Swing Motor Model	-	MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 47/45/43/41/35/30/28 Heating: 46/44/41/38/37/36/33
	Sound Power Level	dB (A)	Cooling: 60/58/56/54/48/44/41 Heating: 60/58/55/52/51/50/47
	Dimension (WXHXD)	mm	943X333X246
	Dimension of Carton Box (LXWXH)	mm	996X397X312
	Dimension of Package (LXWXH)	mm	1001X405X322
	Net Weight	kg	13
	Gross Weight	kg	15.5

	Outdoor Unit Model	-	GWH18ATDXD-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02700 CB574W02701
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A120zH170A
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	
	Compressor RLA	Α	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 -15~30
	Condenser Form	_	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	787×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	2200
	Fan Type	_	Axial-flow
	Fan Diameter	mm	Ф420
	Defrosting Method	_	Automatic Defrosting
	Climate Type	-	
	Isolation	-	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side Permissible Excessive Operating Pressure for	MPa	
	the Suction Side		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	31.5
	Gross Weight	kg	34
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.85
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connoction	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
-	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

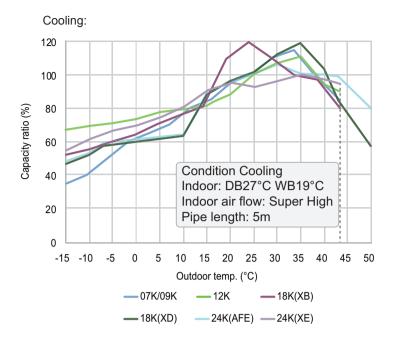
Model		-	GWH24ATDXE-K6DNA1A GWH24ATDXE-K6DNA4A	GWH24ATDXE-K6DNA1A GWH24ATDXE-K6DNA2A GWH24ATDXE-K6DNA3A GWH24ATDXE-K6DNA4A		
Product Code		-	CB574002900/CB574002902 CB595000701	CB574002901 CB585000100 CB590001100 CB595000700		
	Rated Voltage	V~	220-2	240		
Power	Rated Frequency	Hz	50			
Supply	Phases	-	1			
Power S	Supply Mode	-	Outde	oor		
	Capacity	W	6200			
	Capacity	W	650	00		
	Power Input	W	178	36		
	Power Input	W	164	15		
	Power Current	Α	7.6	3		
	Power Current	Α	7.6	6		
Rated In		W	230	00		
	ooling Current	А	11.9			
	eating Current	A	11.			
	Volume	m³/h	1050/900/740/69	0/640/590/540		
Dehumio	difying Volume	L/h	1.8			
ER	, ,	W/W	3.4	7		
OP		W/W	3.9	5		
SEER		_	6.8	3		
	Average/Warmer/Colder)	_	4.0/5.1/-			
	ion Area	m ²	23-34			
	Model of indoor unit	-	GWH24ATDXE-K6DNA1A/I GWH24ATDXE-K6DNA4A/I	GWH24ATDXE-K6DNA1A/I GWH24ATDXE-K6DNA2A/I GWH24ATDXE-K6DNA3A/I GWH24ATDXE-K6DNA4A/I		
	Indoor Unit Product Code	-	CB574N02900/CB574N02902 CB595N00701	CB574N02901 CB585N00100 CB590N01100 CB595N00700		
	Fan Type	-	Cross-	-flow		
	Fan Diameter Length(DXL)	mm	108×6	691		
	Cooling Speed	r/min	1350/1200/1120/105	0/980/860/750/550		
	Heating Speed	r/min	1350/1200/1120/10	050/950/850/750		
	Fan Motor Power Output	W	45	5		
	Fan Motor RLA	Α	0.2	4		
	Fan Motor Capacitor	μF	1			
Indoor	Evaporator Form	-	Aluminum Fin-	copper Tube		
Unit	Evaporator Pipe Diameter	mm	Ф7	7		
	Evaporator Row-fin Gap	mm	2-1.	.3		
	Evaporator Coil Length (LXDXW)	mm	700×25.	4×381		
	Swing Motor Model	-	MP24HF/MP35CJ	MP35CJ		
	Swing Motor Power Output	W	1.5/2.5	2.5		
	Fuse Current	Α	3.1	5		
	Sound Pressure Level	dB (A)	Cooling: 50/46/44/42/40/36/32 Heating: 47/45/44/42/38/35/31			
	Sound Power Level	dB (A)	Cooling: 65/56/54/52/50/46/42 Heating: 65/55/54/52/48/45/41			
	Dimension (WXHXD)	mm	943X333X246			
	Dimension of Carton Box (LXWXH)	mm	996X397			
+	Dimension of Package (LXWXH)	mm	1001X40			
	Net Weight	kg	13.			
	Gross Weight	kg	16	<u> </u>		

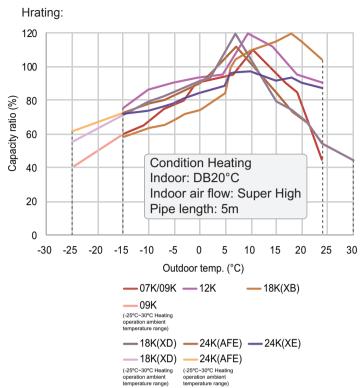
	Outdoor Unit Model	-	GWH24ATDXE-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02900
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-SM151AXBD
	Compressor Oil	-	FW68DA
	Compressor Type	_	Rotary
	Compressor LRA.	Α	
	Compressor RLA	Α	6.06
	Compressor Power Input	W	1330
	Compressor Overload Protector	-	1
	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	Ф7.94
	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
Outdoor	Fan Motor RLA	A	0.7
Unit	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	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MDa	
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	58
	Sound Power Level	dB (A)	69
	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	1.21
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
. 100	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH24ATEXF-K6DNA1A		
Product Code		-	CB574001900 CB574001901		
	Rated Voltage	V~	220-240		
Power Supply	Rated Frequency	Hz	50		
	Phases	-	1		
Power S	Supply Mode	-	Outdoor		
Cooling	Capacity	W	7100		
Heating	Capacity	W	7800		
Cooling	Power Input	W	2030		
Heating	Power Input	W	2000		
Cooling	Power Current	Α	9		
Heating	Power Current	Α	9.3		
Rated In	put	W	3000		
Rated C	ooling Current	Α	13		
Rated H	eating Current	Α	13.5		
Air Flow	Volume	m³/h	1250/1100/1000/950/900/850/800/600		
Dehumi	difying 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		
Applicat	ion Area	m ²	27-42		
	Model of indoor unit	-	GWH24ATEXF-K6DNA1A/I		
	Indoor Unit Product Code	-	CB574N01900		
	Fan Type	-	Cross-flow		
	Fan Diameter Length(DXL)	mm	Ф108×830		
	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	Α	0.24		
	Fan Motor Capacitor	μF	1		
	Evaporator Form	-	Aluminum Fin-copper Tube		
	Evaporator Pipe Diameter	mm	Ф7		
Indoor	Evaporator Row-fin Gap	mm	2-1.4		
Unit	Evaporator Coil Length (LXDXW)	mm	840×25.4×381		
	Swing Motor Model	-	MP24HF/MP35CP		
	Swing Motor Power Output	W	1.5/2.5		
	Fuse Current	Α	3.15		
	Sound Pressure Level	dB (A)	Cooling: 48/44/41/40/38/37/35/27 Heating: 50/47/43/41/40/38/36		
	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	1078X333X246		
	Dimension of Carton Box (LXWXH)	mm	1128X406X323		
	Dimension of Package (LXWXH)	mm	1133X414X333		
	Net Weight	kg	15		
	Gross Weight	kg	18		

	Outdoor Unit Model	-	GWH24AFE-K6DNA2I/O
	Outdoor Unit Product Code	-	CB363W04100 CB363W04101
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-M180zX170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Twin Rotary
	Compressor LRA.	Α	35
	Compressor RLA	Α	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 -25~30
	Condenser Form	_	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	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
Outdoor	Fan Motor RLA	A	0.65
Unit	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m³/h	3600
	Fan Type	_	Axial-flow
	Fan Diameter	mm	Ф520
	Defrosting Method	_	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MPa	
	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 Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	5/8
. ipc	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

2.2 Capacity Variation Ratio According to Temperature





2.3 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of	Fan speed of
Indoor	Outdoor	Model	P (MPa)	T1 (°C) T2 (°C)		indoor unit	outdoor unit
27/19	35/24	07K / 09K	0.8 ~ 1.1	12 ~ 15	68 ~ 38	Super High	High
27/19	35/24	18K	0.9 ~ 1.1	12 ~ 14	75 ~ 37	Super High	High
27/19	35/24	12K / 24K	0.9 ~ 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	Inlet and outlet pipe temperature of heat exchanger		Fan speed of	Fan speed of	
Indoor			P (MPa)	T1 (°C)	T2 (°C)	indoor unit	outdoor unit	
20/-	7/6	07K / 09K	2.8 ~ 3.2	63 ~ 35	2 ~ 5	Super High	High	
20/-	7/6 18K		2.2 ~ 2.4	70 ~ 40	1~5	Super High	High	
20/-	7/6	12K / 24K	2.2 ~ 2.4	70 ~ 35	2 ~ 4	Super High	High	

Instruction:

T1: Inlet and outlet pipe temperature of evaporator

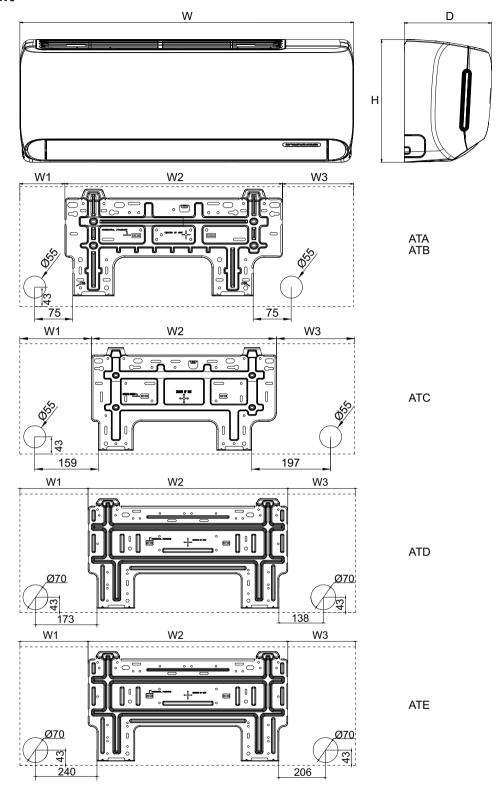
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

Connection pipe length: 5 m.

3. Outline Dimension Diagram

3.1 Indoor Unit

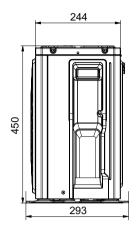


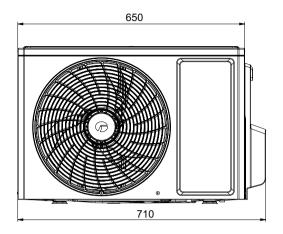
Unit: mm

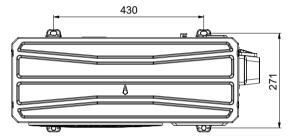
Model	W	Н	D	W1	W2	W3
ATA	708	260	185	96	461	151
ATB	783	260	185	134	461	188
ATC	835	275	200	179	461	195
ATD	943	333	246	191.5	561.5	190
ATE	1078	333	246	258.5	561.5	258

3.2 Outdoor Unit

07K

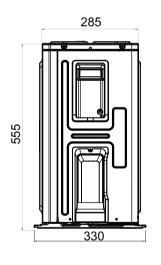


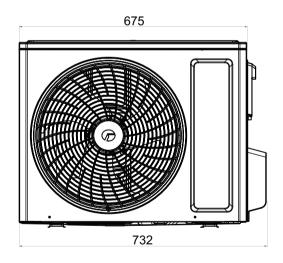


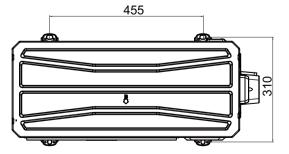


Unit: mm

09K / 12K / 18K(XB)



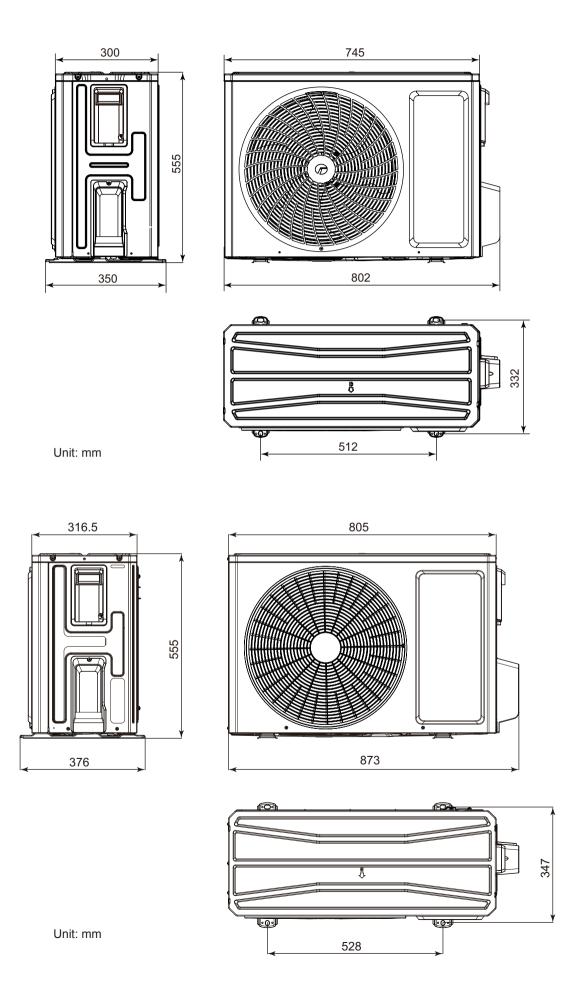




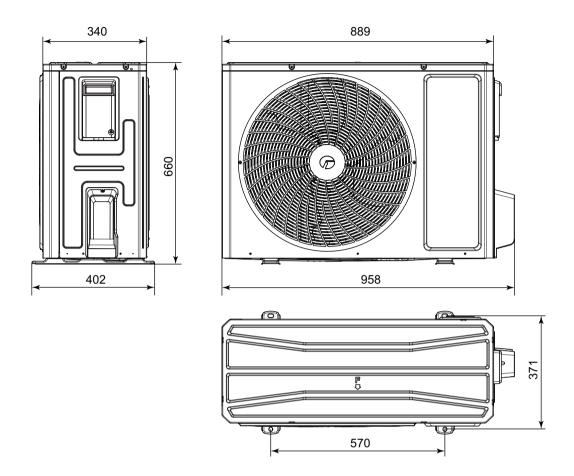
Unit: mm

18K(XD)

24K(XE)

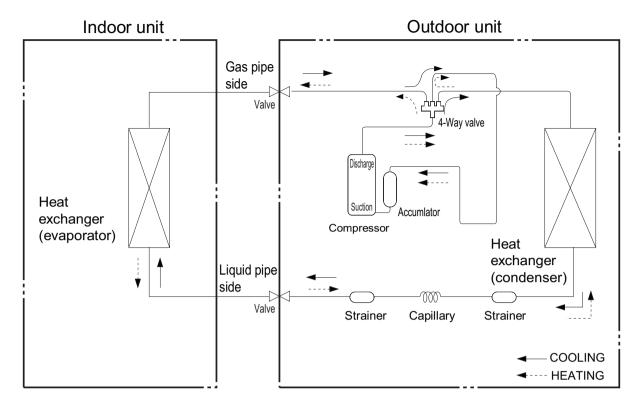


24K(AFE)

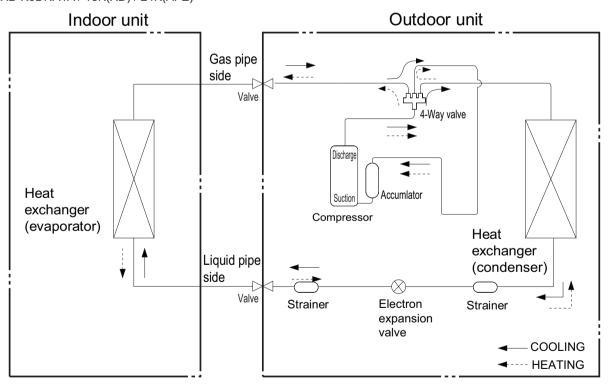


4. Refrigerant System Diagram

07K / 09K / 12K except GWH12ATCXB-K6DNA1A / 18K(XB) / 24K(XE)



GWH12ATCXB-K6DNA1A / 18K(XD) / 24K(AFE)



Connection pipe specification:

Liquid pipe: 1/4"

Gas pipe: 3/8" for 07K / 09K / 12K / 18K(XB)

1/2" for 18K(XD) / 24(XE)

5/8" for 24K(AFE)

5. Electrical Part

5.1 Wiring Diagram

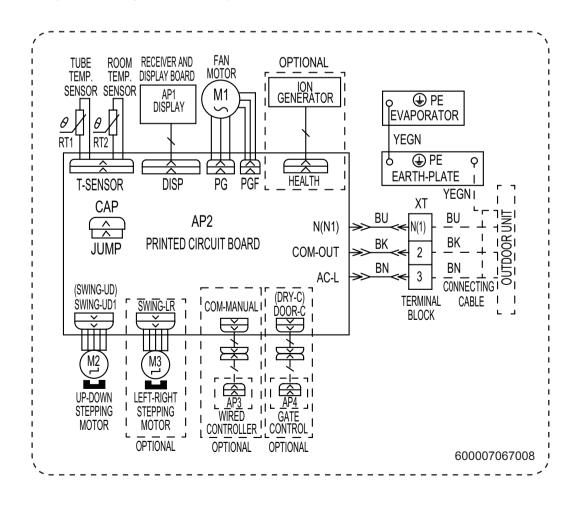
• Instruction

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	вк	Black		I	/
VT	Violet	OG	Orange		/	/
VT	Violet	OG	Orange	_	/	

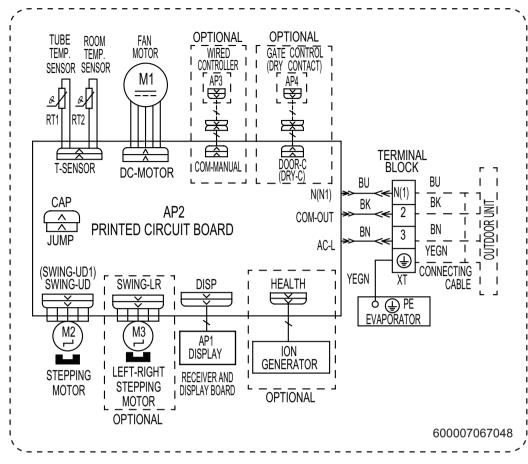
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

Indoor Unit

GWH07ATAXA-K6DNA1B/I GWH07ATAXA-K6DNA4B/I GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA4B/I GWH09ATBXB-K6DNA1B/I GWH12ATBXB-K6DNA1D/I

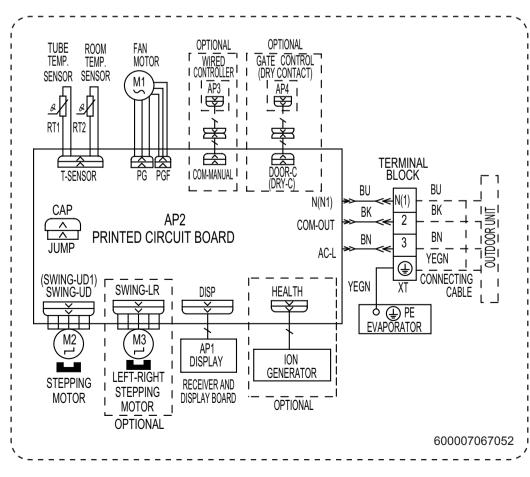


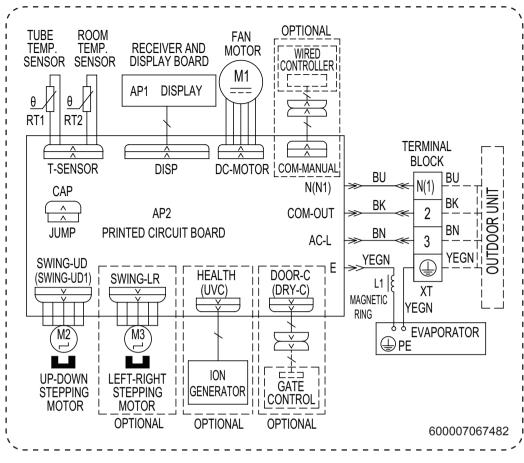
GWH09ATCXB-K6DNA1A/I GWH12ATCXB-K6DNA1A/I



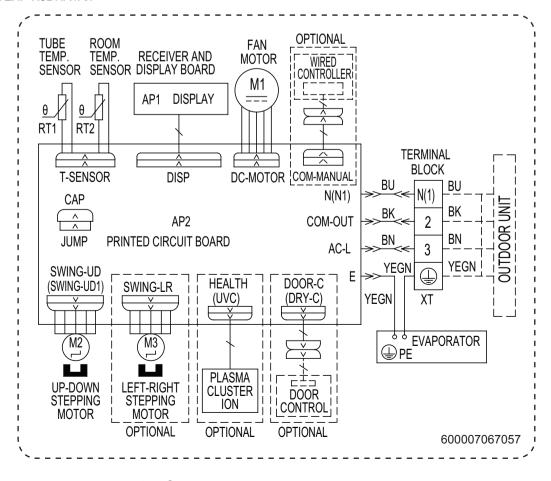
GWH12ATCXB-K6DNA1D/I GWH12ATCXB-K6DNA4D/I

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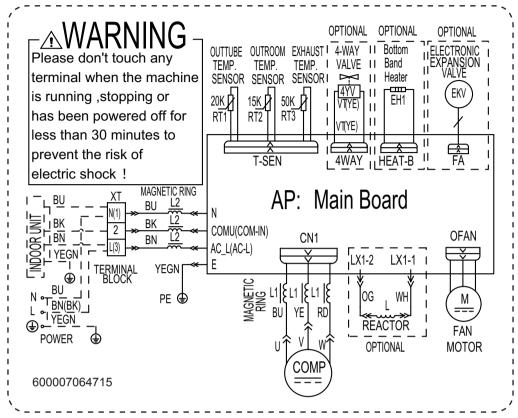


GWH24ATDXE-K6DNA1A/I GWH24ATDXE-K6DNA2A/I GWH24ATDXE-K6DNA3A/I GWH24ATDXE-K6DNA4A/I GWH24ATDXE-K6DNA1A/I

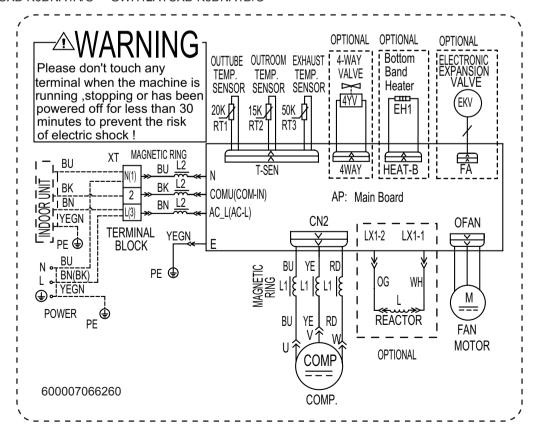


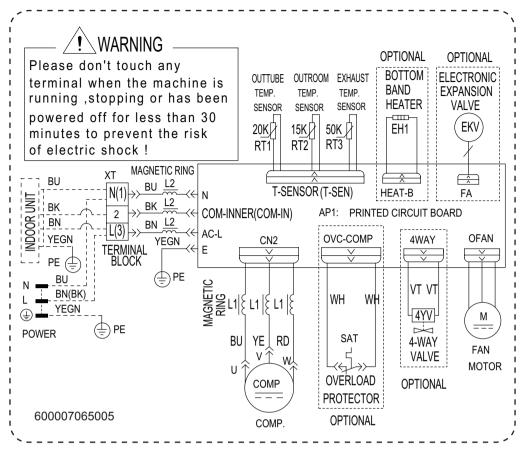
Outdoor Unit

GWH07AGA-K6DNA1A/O



GWH09AGAXB-K6DNA1B/O GWH09AGBXB-K6DNA1A/O GWH09ATCXB-K6DNA1A/O GWH12ATBXB-K6DNA1D/O GWH12ATCXB-K6DNA1A/O GWH12ATCXB-K6DNA1D/O



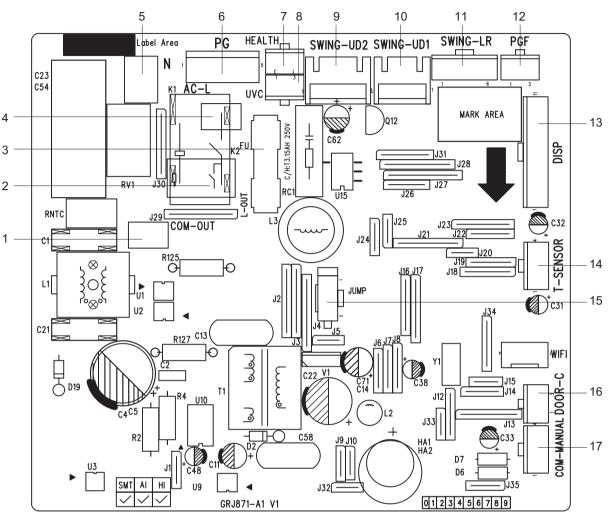


These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

5.2 PCB Printed Diagram

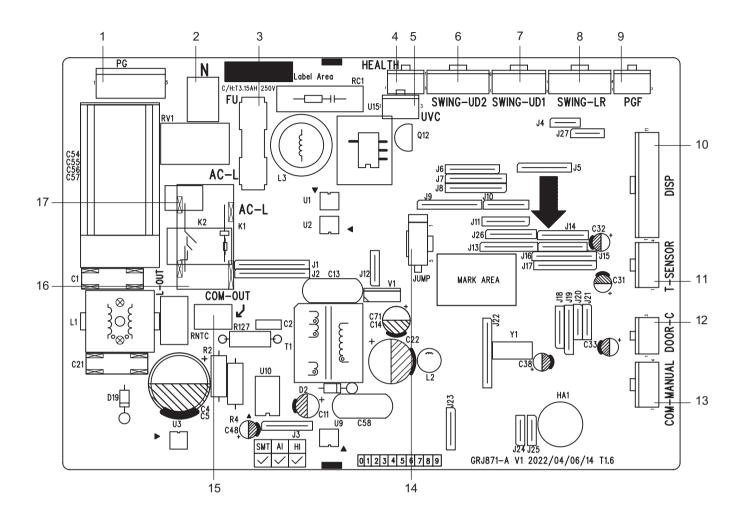
• Indoor Unit

GWH07ATAXA-K6DNA1B/I GWH07ATAXA-K6DNA4B/I GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA4B/I GWH12ATBXB-K6DNA1D/I GWH12ATBXB-K6DNA4D/I

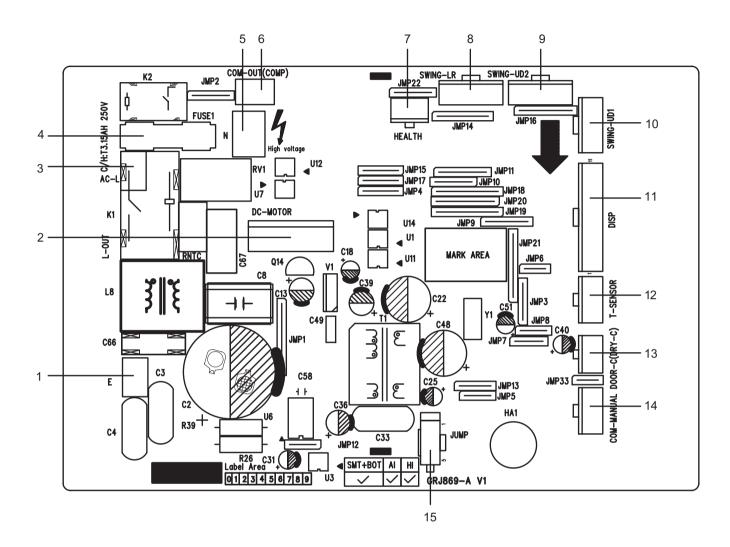


No.	Name	No.	Name
1	Communication wire terminal	10	Up & down swing terminal 1
2	Live wire terminal (outdoor unit)		Left & right swing terminal
3	Fuse	12	PG feedback terminal
4	Live wire terminal	13	Display board terminal
5	Neutral wire terminal		Temperature sensor tube terminal
6	PG motor terminal		Jumper terminal
7	Cold plasma terminal	16	Door-control terminal
8	Ultraviolet cleaning terminal	17	Wired controller
9	Up & down swing terminal 2		

GWH12ATCXB-K6DNA1D/I GWH12ATCXB-K6DNA4D/I



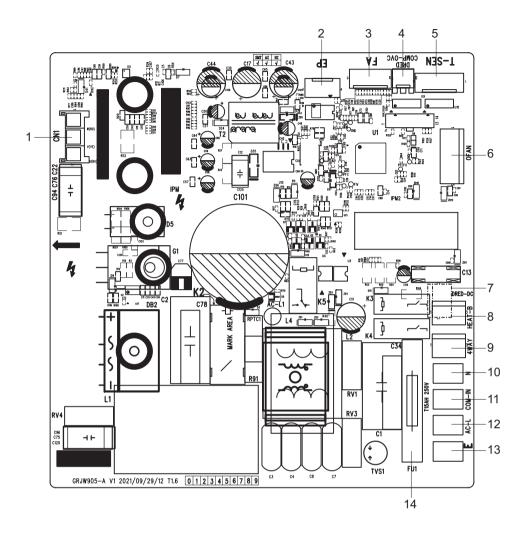
lo.	Name	No.	Name
1	PG motor terminal	10	Display board terminal
2	Neutral wire terminal	11	Temperature sensor tube terminal
3	Fuse		Door-control terminal
1	Cold plasma terminal	13	Wired controller
5	Ultraviolet cleaning terminal		Jumper
	Up & down swing terminal 2	15	Communication wire terminal
	Up & down swing terminal 1	16	Live wire terminal (outdoor unit)
3	Left & right swing terminal		Live wire terminal
	PG feedback terminal		



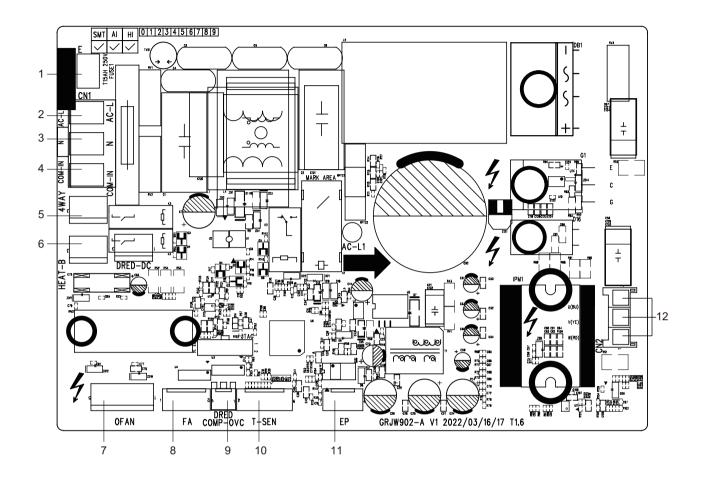
No.	Name	No.	Name
1	Earthing wire terminal	9	Up & down swing terminal 2
2	Brushless DC Motor terminal	10	Up & down swing terminal 1
3	Live wire terminal	11	Display board terminal
4	Fuse		Temperature sensor tube terminal
5	Neutral wire terminal	13	Door-control terminal (Dry contact)
6	Communication wire terminal		Wired controller
7	Cold plasma terminal	15	
8	Left & right swing terminal		

Outdoor Unit

GWH07AGA-K6DNA1A/O



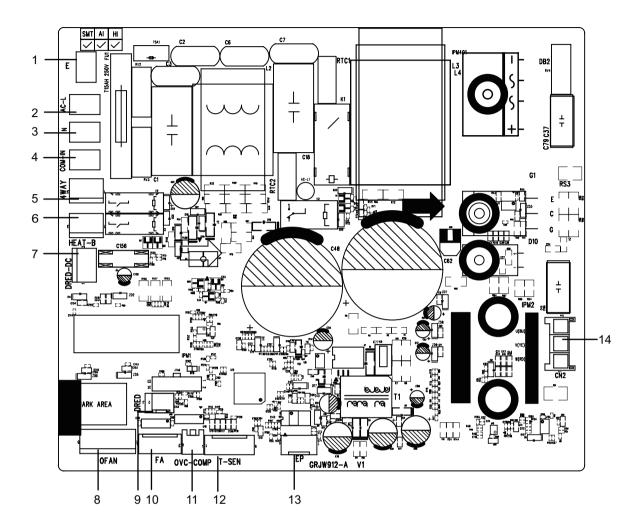
No.	Name	No.	Name
1	Compressor terminal	8	Chassis electric heater terminal
2	EE flash drive terminal	9	4-way valve terminal
3	Electronic expansion valve terminal	10	Neutral wire terminal
4	Compressor overload terminal	11	Communication wire terminal
5	Temperature sensor terminal	12	Live wire terminal
6	Outdoor fan terminal	13	Earthing wire terminal
7	DRED	14	Fuse



No.	Name	No.	Name
1	Earthing wire terminal	7	Fan motor terminal
2	Live wire terminal	8	Electronic expansion valve terminal
3	Neutral wire terminal	9	Compressor overload terminal
4	Communication terminal	10	Temperature sensor terminal
5	4-way valve terminal	11	EE flash drive terminal
6	Chassis electric heater terminal	12	Compressor terminal

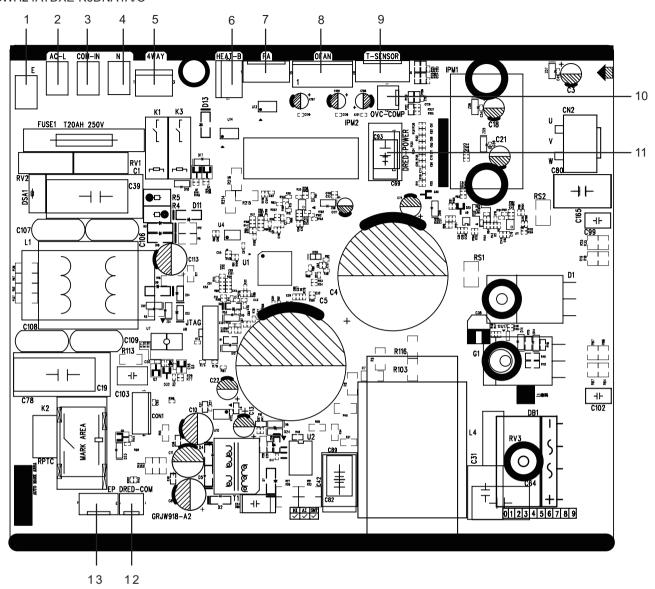
40 • • • • Technical Information

GWH18ATDXD-K6DNA1A/O



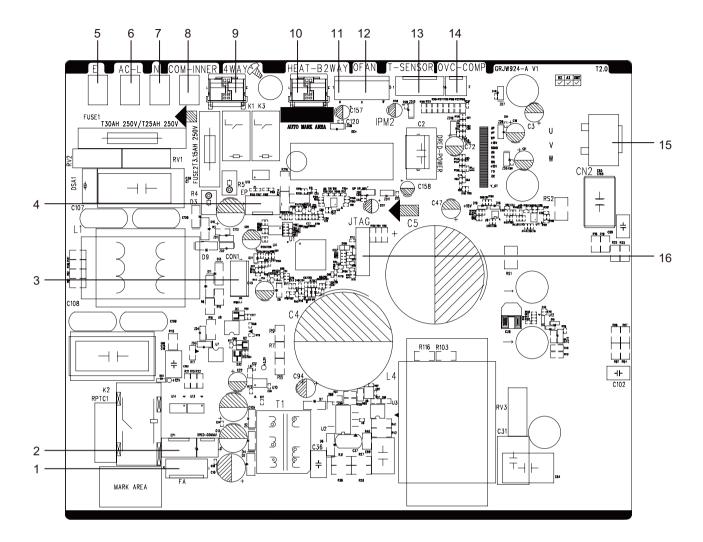
No.	Name	No.	Name
1	Earthing wire	8	Outdoor fan
2	Live wire	9	DRED(Reserved)
3	Neutral wire	10	Electronic expansion valve
4	Communication wire	11	Compressor Overload
5	4-way valve		Temperature sensor
6	Electric heating of chasssis	13	EE Flash drives
7	DRED-DC(Reserved)	14	Compressor

GWH24ATDXE-K6DNA1A/O



No.	Name	No.	Name
1	Earthing wire terminal	8	Fan terminal
2	Live wire terminal	9	Temperature sensor terminal
3	Communication wire terminal		Overload of compressor terminal
4	Neutral wire terminal	11	Dred power supply terminal
5	4-way valve terminal	12	Dred communication terminal
6	Electric heating belt of chassis terminal	13	EE Flash drives
7	Electronic expansion valve terminal		

GWH24AFE-K6DNA2I/O



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

6. Function and Control

6.1 Remote Controller Introduction for YAP1F7(WiFi)

Buttons on remote controller



Introduction for icons on display screen

		I feel
	FAN AUTO	Set fan speed
	\$	Turbo mode
	♠	Send signal
e	Δ	Auto mode
Operation mode	*	Cool mode
tion	44	Dry mode
erat	%	Fan mode
g	*	Heat mode
	© 3	Sleep mode
	\$	8°C heating function
	₽	Power limiting operation
	*	Health mode
	€Û	Scavenging function
	&	X-FAN function
		☐ Set temp.
	િં⊪ Temp.	☐ Indoor ambient temp.
als	splay type	் Outdoor ambient temp.
	0	Clock
	88	Set temperature
	WIFI	WiFi function
	88:88	Set time
	ONOFF	TIMER ON / TIMER OFF
	灬	Left & right swing
	₹0°	Up & down swing
		Child lock
	ନ	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 " () " 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.



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 " \triangle " or " ∇ " button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " \equiv " / " \Rightarrow " 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 " \triangle " or " ∇ " button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " \equiv " / " \equiv " button to adjust fan blowing angle.

• When selecting heating mode, the air conditioner operates under heat mode. Press " \triangle " or " ∇ " button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " \mathbb{R} " \mathbb{R} " 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.



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 blowed 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

- ullet Press " \triangle " or " abla " button once increase or decrease set temperature 1°C (°F). Holding " \triangle " or " abla " 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 " \triangle " or " ∇ " button to adjust time. (Refer to CLOCK, T-ON,T-OFF buttons)



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

NOTE:

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

্বা button

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

no display
$$\leftarrow \bigcirc 0 \rightarrow \bigcirc 0 \rightarrow \bigcirc 0 \rightarrow \bigcirc 0$$
(horizontal louvers stops at current position)

- When selecting " 🔊 ", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting " $_{-0}$, $_{-0}$, $_{,0}$, $_{,0}$ ", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed

position.

- When selecting " ₅0 , ₅0 , ₃0 ", air conditioner is blowing fan at fixed angle. Horizontal louver will send air at the fixed angle.

NOTE:

- " $_{\lessgtr 0}$, $_{\lessgtr 0}$, $_{\lessgtr 0}$ " 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 $\mathbf{s}_{\mathbf{0}}^{\mathbf{0}}$, if press this button again 2s later, $\mathbf{s}_{\mathbf{0}}^{\mathbf{0}}$ 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, " \oplus " icon disappears and the word "ON" on remote controller blinks. Press " \triangle " or " ∇ " button to adjust T-ON setting. After each pressing " \triangle " or " ∇ " button, T-ON setting will increase or decrease 1min. Hold " \triangle " 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. " \oplus " 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, " \bigcirc " icon disappears and the word "OFF" on remote controller blinks. Press " \triangle " or " ∇ " button to adjust T-OFF setting. After each pressing " \triangle " or " ∇ " button, T-OFF setting will increase or decrease 1min. Hold " \triangle " or " ∇ " button, 2s later, the time will change quickly until reaching your required time. Press "T-OFF" word "OFF" will stop blinking. " \bigcirc " icon resumes displaying. Cancel T-OFF. Under the condition that T-OFF is started up, press "T-OFF" button to cancel it.

NOTE:

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- 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.

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

☀/針 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 "\(\tilde{\chi}\)". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays "\(\tilde{\chi}\)" and "\(\tilde{\chi}\)". 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 off display light on indoor unit. " ﷺ " icon on remote controller disappears. Press this button again to turn on display light. " ﷺ " icon is displayed.

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 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 "TEMP" and "CLOCK" buttons simultaneously again to exit energy-saving function.

NOTE:

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

8°C heating function

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

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

NOTE:

• Under 8°C heating function, fan speed is defaulted at auto speed and it can't be adjusted.

• Under 8°C heating function, set temperature can't be adjusted.

Press "TURBO" button and the remote controller won't send signal.

- Sleep function and 8°C heating function can't operate at the same time. If 8°C heating function has been set under heat mode, press sleep button will cancel 8°C heating function. If sleep function has been set under heat mode, start up the 8°C heating function will cancel sleep function.
- Under °F temperature display, the remote controller will display 46°F heating.

Child lock function

Press " \triangle " and " ∇ " simultaneously to turn on or turn off child lock function. When child lock function is on, " $\underline{\blacksquare}$ " icon is displayed on remote controller. If you operate the remote controller, the " $\underline{\blacksquare}$ " icon will blink three times without sending signal to the unit.

Temperature display switchover function

Under OFF status, press " \bigtriangledown " 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.

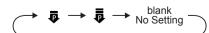
NOTE:

- 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 \$\overline{\overlin

\$\overline{\ove



Maximum power limited under the \$\overline{

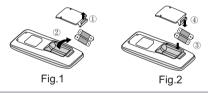
- If you want to cancel the power limiting function, press the button $\mathbf{\bar{z}}$ till the icon in remote controller is not displayed.
- When the remote controller is turned off, power limiting function is cancelled. If you want to activate the function, please repress this button.
- If the current power is lower than the maximum power of \$\overline{\overli
- 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 temote controller

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



NOTICE:

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

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6.2 Remote Controller Introduction for YAY1F1

Buttons on remote controller



Introduction for icons on display

ı.		I feel		
	FAN AUTO	Set fan speed		
	®	Turbo mode		
	♠	Send signal		
e Ge	۵	Auto mode		
Operation mode	*	Cool mode		
ion	44	Dry mode		
erat	%	Fan mode		
Q	*	Heat mode		
	© 3	Sleep mode		
	÷Ģ-̄	Light		
	•	Power limiting operation		
	*	X-FAN function		
	1	Indoor ambient temp.		
	(Clock		
	88°	Set temperature		
	WIFI	WiFi function		
	88:88	Set time		
	ONOFF	TIMER ON / TIMER OFF		
	灬	Left & right swing		
	₩ 0	Up & down swing		
		Child lock		
	ନ	Quiet		

Introduction for 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 " U " 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.

1. (button

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

2. MODE button

Press this button to select your required operation mode.

- 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 cont roller, press " () " button can't start up the
 unit.

3. Fan button

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 blowed 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.

4. - / + 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).

5. 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.

(≟\ˈ² 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.

C Sleep function

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

● ● ● ● ● ■ Technical Information

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 " (b) " 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.

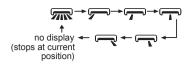
ig(igoplus CLOCK functionig)

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 increas e 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 " R " 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.

📜 I FEEL function

When selecting I FEEL function, I FEEL icon " : " flashes for 5s. Press "SET" button to start I FEEL function within 5s 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 "SET" 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.

5E Energy-saving function

Under cooling mode, when selecting energy-saving function, energy-saving function icon " 5£ " 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 " β_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, " β_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 \$\overline{\bar{a}}\$ mode is lower than that of \$\overline{a}\$ mode.
- If the current power is lower than the maximum power of \$\overline{\sigma}\$ 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.

6. 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 " -0, -0, 0, 0, 0, 0, air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.

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 p, if press this button again 2s later, p 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.

7. 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

1. 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.

2. Temperature display switchover function

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

3. 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.

4. 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:

• The function is only available for some models.

5. Ambient temperature display function

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

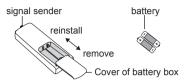


6. Adjustable temperature under auto mode

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 " \(\extstyle \), 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 "+" polar 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 Tpreset=20°C and standard cooling Tpreset=25°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 (Tamb.-Tcompensation) for heat pump unit and Tamb. for cooling only unit.
- 4. If theres I feel function, Tcompensation 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 availably 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 ode, 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 wont stop within 6 mins according to the change of room temp.

1) 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 swill be 30s delayed for protection between mode switchover.

- ♦ When Tamb. ≥26°C, unit will be in cooling mode°C Ex-factory set temperature is 25°C
- ◆ Cooling and heating unit: When Tamb≤(19°C+Tcompensation), unit will be in heating mode Tpreset=20°C.
- ◆ Cooling only unit: When Tamb≤22°C(or 72°F), unit will be in fan mode Tpreset=25°C.
- $\label{eq:cooling}$ For cooling and heating unit under condition that (19°C+Tcompensation) < Tamb < 26°C (For cooling only unit under condition that 22°C < Tamb < 26°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.

2) Cooling mode

- ① Operation condition and process for cooling mode
- ◆ When Tamb. ≥Tset+1°C, the system operates under cooling

● ● ● ● ● <u>Technical Information</u>

mode. In this case, the compressor, the ODU fan motor and the IDU fan motor operates at set speed.

- ◆ When Tamb. ≤Tset-1°C, the compressor and the ODU fan motor stop, while the IDU fan motor operates at set speed.
- ♦ When Tset-1°C<Tamb. <Tset+1°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 16~30°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 ode and set temperature is 16°C (or 16.5°C by remote controller), press " \triangle , ∇ , \triangle , ∇ , \triangle , ∇ , \triangle , ∇ " button successively within 5s and then indoor unit will enter into compulsory defrosting setting status:

- (1) If theres only indoor units controller, it enters into indoor normal defrosting mode.
- (2) If theres 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 hasnt 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.
- Only when remote control signal is switched to indoor ambient temperature display status (corresponding remote control code:
 from other display status (corresponding remote control code:
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Under this mode, indoor fan operates at set fan speed. Compressor, outdoor fan, 4-way valve and electric heating tube stop operation. Indoor fan can select to operate at high, medium, low or auto fan speed. Temperature setting range is 16~30°C.

(12) Off-peak energization function:

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

The time interval between two start-ups of compressor can't be

less than 180+Ts(0≤T≤15). T is the variable of controller. Thats 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 a few minutes and then the complete unit will be turned off. When x-fan function is turned off, after turn off the unit, the complete unit will be turned off directly.

(15) 8°C heating function

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

(16) Turbo function

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

Outdoor Unit

1. Basic Functions

(1) Cooling Mode

- 1. Conditions and processes of cooling operation:
- (1) If the compressor is shut down, and $[T_{\text{setup}} (T_{\text{indoor ambient temperature}} \triangle T_{\text{cooling indoor ambient temperature compensation}}] < 0^{\circ}\text{C}$, start up the machine for cooling, the cooling operation will start;
- (2) During operations of cooling, if $0^{\circ}C \leq [T_{\text{setup}} (T_{\text{indoor ambient temperature}} T_{\text{cooling indoor ambient temperature compensation}})] < 2^{\circ}C$, the cooling operation will be still running;
- (3) During operations of cooling, if $2^{\circ}C \leq [T_{\text{setup}} (T_{\text{indoor ambient temperature}} \triangle T_{\text{cooling indoor ambient temperature compensation}})]$, the cooling operation will stop after reaching the temperature point.
- 2. Temperature setting range
- (1) If $T_{\text{outdoor ambient temperature}} \ge [T_{\text{low-temperature cooling temperature}}]$, the temperature can be set at: 16~30°C (Cooling at room temperature);
- (2) If $T_{outdoor\ ambient\ temperature} < [T_{low-temperature\ cooling\ temperature}]$, the temperature can be set at: 25~30°C (Cooling at low temperature), that is, the minimum setting temperature for outer units judgment is 25°C .

(2) Dehumidifying Mode

- 1. Conditions and processes of dehumidifying operations: Same as the cooling mode;
- 2. The temperature setting range is: 16~30°C;

(3) Air-supplying Mode

- 1. The compressor, outdoor fans and four-way valves are switched off:
- 2. The temperature setting range is: 16~30°C.

(4) Heating Mode

- 1. Conditions and processes of heating operations:
- (T_{indoor ambient temperature} is the actual detection temperature of indoor

environment thermo-bulb, $T_{\text{heating indoor ambient temperature compensation}}$ is the indoor ambient temperature compensation during heating operations)

- (1) If the compressor is shut down, and [($T_{indoor\ ambient\ temperature} \angle$ T_{heating\ indoor\ ambient\ temperature\ compensation}) - T_{setup}] < 0°C , start the machine to enter into heating operations for heating;
- (3) During operations of heating, if $2^{\circ}C \leq [(T_{indoor\ ambient\ temperature} \triangle]$ $T_{heating\ indoor\ ambient\ temperature\ compensation}) - T_{setup}]$, the heating operation will stop after reaching the temperature point.
- 2. The temperature setting range in this mode is: 16~30°C.

3. Special Functions

Defrosting Control

1 Conditions for starting defrosting

After the time for defrosting is judged to be satisfied, if the temperature for defrosting is satisfied after detections for continuous 3minutes, the defrosting operation will start.

2 Conditions of finishing defrosting

The defrosting operation can exit when any of the conditions below is satisfied:

- ③ $T_{\text{outdoor pipe temperature}}$ ≥ ($T_{\text{outdoor ambient temperature}} [T_{\text{temperature 1 of finishing defrosting}}]$;
- 4 The continuous running time of defrosting reaches [$t_{max.\ defrosting}$].

4. Control Logic

(1) Compressor Control

Start the compressor after starting cooling, heating, dehumidifying operations, and the outer fans start for 5s; When the machine is shutdown, in safety stops and when switching to air-supplying mode, the compressor will stop immediately. In all modes: once the compressor starts up, it will not be allowed to stop until having run for the [tmin. compressor running time] (Note: including cases of shutdown when the temperature point is reached; except the cases requiring stopping the compressor such as fault protection, remote shutdown, mode switching etc.); In all modes: once the compressor stops, it will be allowed be restart after 3-minute delay (Note: The indoor units have a function of power memory, the machine can be restarted after remote shutdown and powering up again without delay).

1. Cooling mode

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

2. Dehumidifying mode

Same as the cooling mode.

3. Air-supplying mode

The compressor is switched off.

- 4. Heating mode
- (1) Start the machine to enter into heating operation for heating, the compressor is switched on.
- (2) Defrosting:

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

(2) Outer Fans Control

Notes:

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

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

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

(3) 4-way valve control

- 1. The 4-way valve control under the modes of Cooling, dehumidification and supplying air: closing;
- 2. The status of 4-way valve control under the heating mode: getting power;
- (1) 4-way valve power control under heating mode
- a. Starts the machine under heating mode, the 4-way valve will get power immediately.
- (2) 4-way valve power turn-off control under heating mode
- a. When you should turn off the power or switch to other mode under heating mode, the power of 4-way valve will be cut after 2 minutes of the compressor stopped.
- b. When all kinds of protection stops, the power of 4-way valve will be cut after delaying 4 minutes.
- (3) Defrosting control under heating mode:
- a. Defrosting begins: The power of 4-way valve will be cut after 50s of entering into the defrosting compressor.
- b. Defrosting stops: The 4-way valve will get power after 50s of exiting the defrosting compressor.

(4) Evaporatorrozen-preventing protection function

1. Starting estimation:

When the indoor unit is running 6 minutes (the compressor is turned on), the $T_{inner\ pipe} \le [T_{frozen-preventing\ stop}]$ (the temperature of hysteresis is 2)] is detected in 3 minutes., then enter the frozen-preventing protection.

2. Frequency limited

When the indoor unit enters frozen-preventing protection, according to cooling reaches temperature point stop.

(5) Compressor overloads protection

If you measure the compressor overload switch action in 3s, the compressor should be stopped for overloading. The machine should be allowed to operate after overload protection was measured to resume. If the overloading protection continuously occurs for three times, it should not be resumed automatically, and

you should press the ON/OFF button to resume. The protection times of compressor is allowed to clear after the compressor run [t Protection times clearing of compressor overloading] 30 minutes.

(6) Communication fault

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

(7) Module protection

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

(9) Module overheating protection

1. Starting estimation:

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

2. Frequency limited

- If $[T_{Limited\ frequency\ temperature\ of\ module}] \le T_{Module} < [T_{frequency\ reducing\ temperature\ at\ normal\ speed\ of\ module}]$, you should limit the frequency raising of compressor.
- 3. Reducing frequency at normal speed and power turn-off:
- If $[T_{frequency\ reducing}\ temperature\ at\ normal\ speed\ of\ module}] \le T_{Module} < [T_{frequency\ reducing}\ temperature\ at\ high\ speed\ of\ module}]$, you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was running 90s at the lower limit, if $[T_{frequency\ reducing\ temperature\ at\ normal\ speed\ of\ module}] \le T_{Module}$, you should stop the machine for module overheating protection;
- 4. Reducing frequency at high speed and power turn-off:
- If $[T_{frequency\ reducing\ temperature\ at\ high\ speed\ of\ module}] \le T_{Module} < [T_{Power\ turn-off\ temperature\ of\ module}]$ you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if $[T_{frequency\ reducing\ temperature\ at\ normal\ speed\ of\ module}] \le T_{Module}$, you should stop the machine for module overheating protection;

5. Power turn-off:

- If the $[T_{Power\ turn-off\ temperature\ of\ module}] \leq T_{Module}$, you should stop the machine for module overheating protection; If TModule $<[T_{Limited}]$ frequency temperature of module] and the compressor has been stopped for 3 minutes, the machine should be allowed to operate.
- 6. If protection continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running

time of compressor exceeds the [t Protection times clearing of module], the discharge protection is cleared to recount. Stopped or transferred to supply air mode will clear the trouble times immediately (if the trouble can not be resumed, mode transferring also will not clear it).

(10) Phase current overcurrent protection of compressor

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

- 1. Frequency limited
- If $[I_{Limited\ frequency\ phase\ current}] \le [I_{Phase\ current\ T\ frequency\ reducing\ phase\ current}]$, you should limit the frequency raising of compressor.
- 2. Reducing Frequency
- If $[I_{Frequency Reducing Phase Current}] \le I_{Phase Current} < [I_{Power Turn-Off Phase Current}]$, the compressor shall continue to reduce frequency till the lowest frequency limit or out of the condition of reducing frequency;
- 3. Power turn-off
- If $[I_{Phase\ Current}] \ge [I_{Power\ Turn-Off\ Phase\ Current}]$, the compressor phase current shall stop working for overcurrent protection; if $[I_{Phase\ Current}] \le [I_{Phase\ Current}]$, and the compressor have stopped working for 3 min, the machine shall be allowed to operate:
- 4. If the overcurrent protection of compressor phase current continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running time of compressor exceeds the [t Clearing Time of Compressor Phase Current Times], the overcurrent protection is cleared to recount.

(11) Starting-up Failure Protection for Compressor

Stop the compressor after its starting-up fails, restart it after 20s if the fault doesn't shows, and if they are all failing for the successive start 3 times, it shall be reported as Starting-up Failure, and then restart up it after 3 min. When it still not be able to operate through carry out the above process for 5 times, it is available if press ON/ OFF. And the compressor should be cleared the times after it run 2

(12) Out-of-Step Protection for Compressor

The out-of-step protection signal should be detected immediately after starting-up compressor, and once find the out-of-step protection signal, the out-of-step protection shall be stopped; if it can run for lasting power turn-off 3 min, the machine shall be allowed to operate. If it still can't run automatically when the out-of-step protection for compressor happens to stop working for 6 times in succession, it needs to press ON/OFF to operate. And if the running time is more than 10 min, the power turn-off times for out-of-step protection shall be cleared and recounted.

(13) Voltage Abnormity Protection for DC Bus

To detect voltage abnormity protection for dc bus after completing the pre-charge:

1. Over-Low Voltage Protection for DC Bus:

When the compressor is running, the DC bus voltage is detected. If the PFC is not opened, the bus voltage is smaller than the

VPFC does not open the undervoltage protection valuetime, if the PFC is turned on, the bus voltage is smaller than the VPFC Open undervoltage protection value Times Under voltage protection, under pressure protection, the compressor is closed, and the PFC is closed, and the compressor will clear the fault sign after 3 minutes.

2. Over-High Voltage Protection for DC Bus

When the compressor is running, if the DC bus voltage is detected is greater than the VPFC output protection value, the voltage protection is reported, the stopper, the PFC, and the compressor will clear the fault flag after 3 minutes.

(14) Abnormity Protection for Four-way Valve

Under the model of heating operation in good condition: the compressor is detected [$T_{Inner\ Tube}$ <($T_{Inner\ Ring-T\ Abnormity\ Temperature\ Difference\ For\ Four-Way\ Valve\ Reversion}$], during the running, it should be regarded as four-way valve reversion abnormity. And then it can run if stop the reversion abnormity protection for four-way valve 3 min; and if it still can't run when the reversion abnormity protection for four-way valve happens to stop working for 3 times in succession, it is available if presses ON/OFF.

Attention: the protection shall be shielded during the testing mode and defrosting process, and it shall be cleared out the failure and its times immediately when turning off or delivering wind / cooling / dehumidifying mode conversed (the inverted mode don't clear out the failure when it can't recover to operate).

(15) PFC Protection

it at other time.

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- 1. After start up the PFC, it should detect the protection signal of PFC immediately; under the condition of PFC protection, it should turn off the PFC and compressor at one time;
- 2. It shows the failure is cleared out if PFC Protection stopped working 3 min and recovers to run automatically;
- 3. If it still can't run when it occurs PFC protection for 3 times in succession, it is available if presses ON/OFF; and clear the PFC Protection times when start up PFC for 10min.

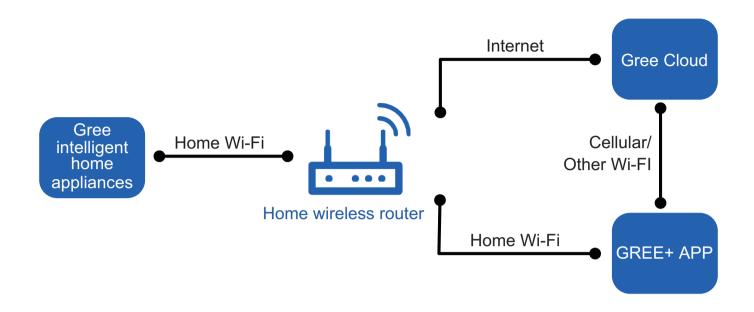
(16) Failure Detection for Sensor

- 1. Outdoor Ambient Sensor: detect the failure of sensor at all times.
- 2. Outdoor Tube Sensor: You should not detect the failure of outdoor tube sensor within 10 minutes heating operation compressor except the defrosting, and you could detect

- 3. Outdoor Exhaust Sensor:
- (a) The compressor only detect the sensor failure after it start up 3 min in normal mode;
- (b) It should detect the exhaust sensor failure immediately in the testing mode.
- 4. Module Temperature Sensor:
- (a) Short-Circuit Detection: the compressor should be detected immediately when the module temperature sensor occurs short-circuits:
- (b) Open-Circuit Detection: the compressor should be detected on open-circuit when it runs 3min (it needn't 30s avoiding the module over-heated).
- (c) Detect the sensor failure at all times in the testing mode.
- 5. Disposal for Sensor Protection
- (1) When the short-circuit of sensor is detected within 30s, It is regarded as the temperature of sensor over-high (or infinitely high), and now according to the over-high sensor, the machine should carry out the corresponding protection to stop working, and show the corresponding temperature shutdown protection and sensor failure at the same time (for example: the compressor stops immediately when the outdoor tube sensor short-circuit, and the machine shall show the overload protection and outdoor tube sensor failure).
- (2) When the open-circuit of sensor is detected within 30s, The protection shall be stopped and it shall show the corresponding sensor failure.
- 6. Electric Heating Function of Chassis
- (1) When Toutdoor amb.≤0 , the electric heating of chassis will operate:
- (2) When Toutdoor amb.>2, the electric heating of chassis will stop operation:
- (3)When 0 <Toutdoor amb.≤2 , the electric heating of chassis will keep original status.
- 7. Electric Heating Function of Compressor
- (1) When Toutdoor amb.≤≤-5 , compressor stops operation, while the electric heating of compressor starts operation;
- (2) When Toutdoor amb.>-2, the electric heating of compressor stops operation;
- (3) When -5 <Toutdoor amb.≤-2 , the electric heating of compressor will keep original status.

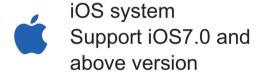
6.4 GREE+ App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system
Support Android 4.4 and above version

Download and installation

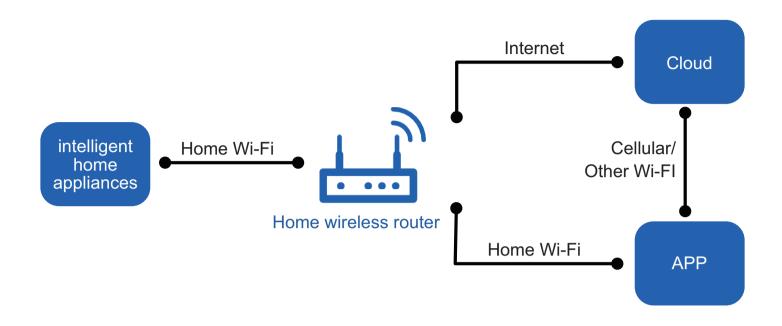


GREE+ App Download Linkage

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.

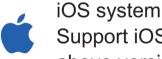
6.5 Ewpe Smart App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:



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. Ware safety belt if the height of working is above 2m.
- 5. Use equipped components or appointed components during installation.
- 6. Make sure no foreign objects are left in the unit after finishing installation.

Refrigerant Safety Precautions:

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

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

Safety Precautions for Installing and Relocating the Unit:

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

!WARNINGS

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

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

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.

62 Installation and Maintenance

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 leads 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 ozonosphere. 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 Xm².
- Appliance filled with flammable gas R32. For repairs, strictly follow manufacturers instructions only. Be aware that refrigrants not contain odour.
- Read specialists 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.



This marking indicates that this product should not be disposed with other house hold 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 is not allowed to use in a room that has running fire (such as fire source,working coal gas ware, operating heater).
- It is not allowed to drill hole or burn the connection pipe.
- The air conditioner must be installed in a room that is larger than the minimum room area.

The minimum room area is shown on the nameplate or following table a.

• Leak test is a must after installation.

table a - Minimum room area (m²)

Charge amount (kg)	Floor location	Window mounted	Wall mounted	Ceiling mounted
≤1.2	4	4	4	4
1.3	14.5	5.2	4	4
1.4	16.8	6.1	4	4
1.5	19.3	7	4	4
1.6	22	7.9	4	4
1.7	24.8	8.9	4	4
1.8	27.8	10	4	4
1.9	31	11.2	4	4
2.0	34.3	12.4	4	4
2.1	37.8	13.6	4.2	4
2.2	41.5	15	4.6	4
2.3	45.4	16.3	5	4
2.4	49.4	17.8	5.5	4
2.5	53.6	19.3	6	4

3. Maintenance notes

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

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 isnt 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 wont 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 havent finished).
- Dont overfilling.
- After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when its 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.

Installation and Maintenance

Main Tools for Installation and Maintenance



vel meter

Measuring tape



































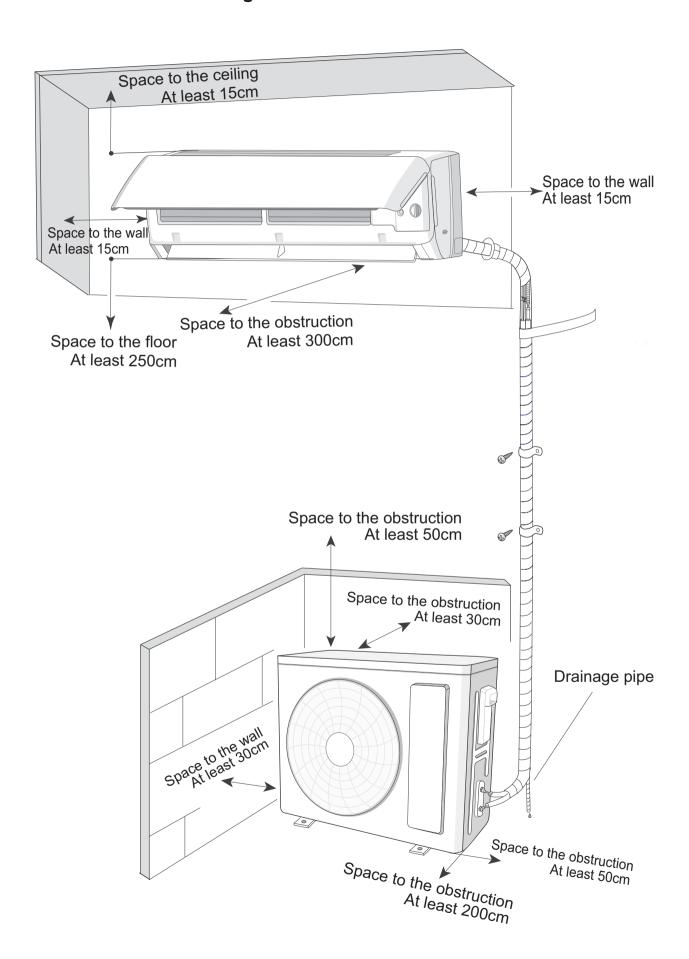






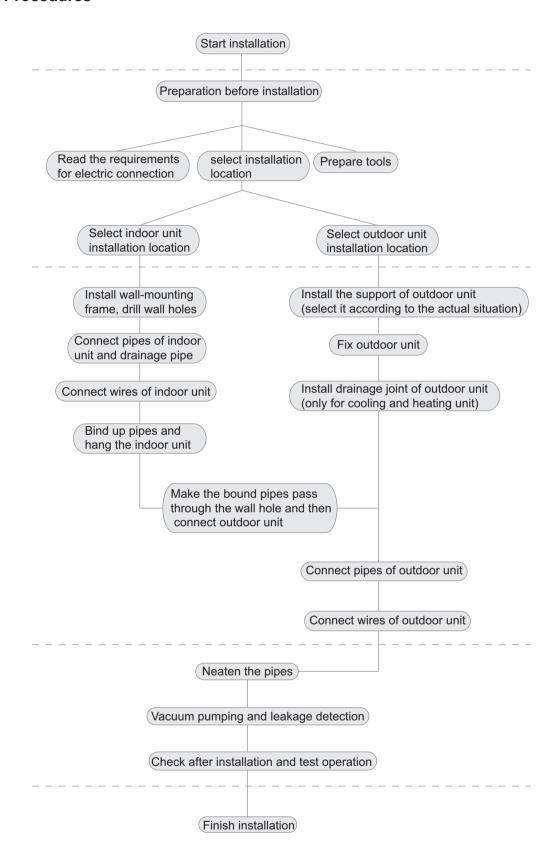
8. Installation

8.1 Installation Dimension Diagram



66 Installation and Maintenance

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 sulfureted gas.
- (6) Other places with special circumstances.
- (7) The appliance shall nost 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

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- (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 way from fluorescent lamp.

3. Outdoor Unit

- (1) Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.
- (2) The location should be well ventilated and dry, in which the outdoor unit 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.

Installation and Maintenance

- (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(XB)	16A	3G1.0
18K(XD) / 24K(XE)	16A	3G1.5
24K(AFE)	25A	3G2.5

8.5 Installation of Indoor Unit

1. Choosing Installation Location

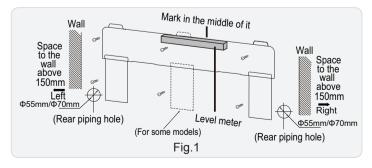
Recommend the installation location to the client and then confirm it with the client.

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.

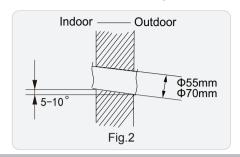
3. Drill Piping Hole

(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 Φ 55mm or Φ 70mm 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)

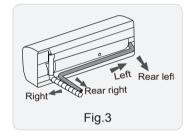


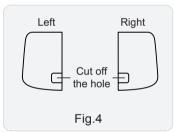
NOTE:

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

4. Outlet Pipe

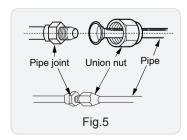
- (1) The pipe can be led out in the direction of right, rear right, left or rear left. (As show in Fig.3)
- (2) When selecting leading out the pipe from left or right, please cut off the corresponding hole on the bottom case. (As show in Fig.4)

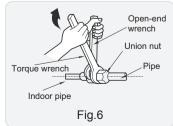


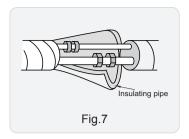


5. Connect the Pipe of Indoor Unit

- (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)





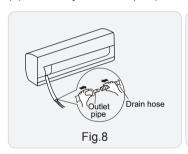


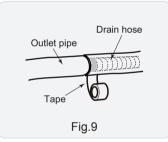
Refer to the following table for wrench moment of force:

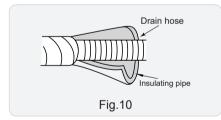
Piping size (inch)	Tightening torque (N·m)
1/4	15~20
3/8	30~40
1/2	45~55
5/8	60~65
3/4	70~75

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:

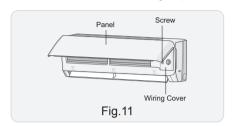
- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.

7. Connect Wire of Indoor Unit

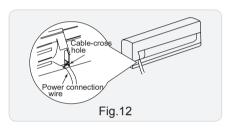
NOTICE:

- 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.

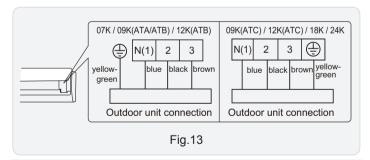
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.
- (1) Open the panel, 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 wiresignal 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.



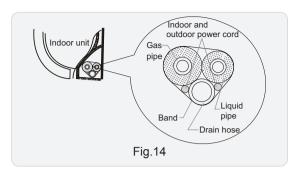
NOTICE:

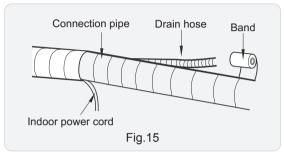
• The wiring board is for reference only, please refer to the actual one.

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.



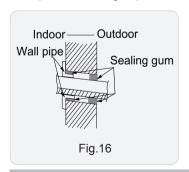


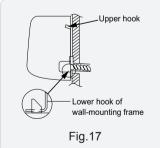
NOTE:

- 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)





NOTE:

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

8.6 Installation of Outdoor Unit

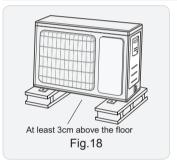
1. Fix the Support of Outdoor Unit (Select it according

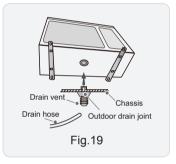
to the actual installation situation)

- (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.





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

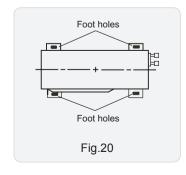
- (1) Connect the outdoor drain joint into the hole on the chassis.
- (2) Connect the drain hose into the drain vent. (As show in Fig.19)

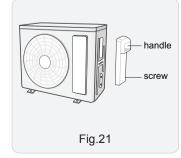
NOTICE:

 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)





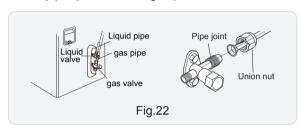
NOTE:

• 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)



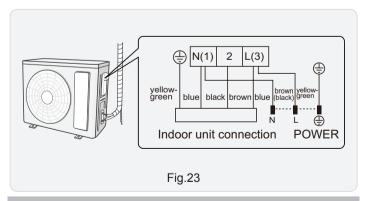
- (3) Pretightening the union nut with hand.
- (4) Tighten the union nut with torque wrench.

Refer to the following table for wrench moment of force:

Piping size (inch)	Tightoning torque (N m)
Fibility Size (Ilicit)	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:

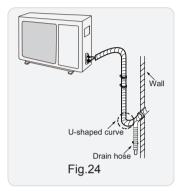
- The wiring board is for reference only, please refer to the actual one.
- (2) Fix the power connection wire and signal control wire with wire clip (only for heat pump models).

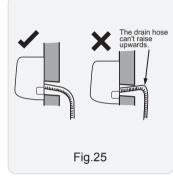
NOTICE:

- 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

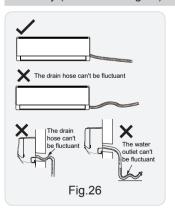
- (1) The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
- (2) If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting 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)



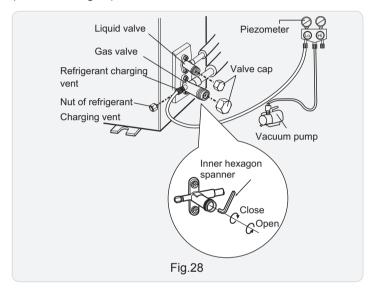


8.7 Vacuum Pumping and Leak Detection

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.

Ν	10.	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

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

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

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

		During cooling and drying operation	
Malfunction of phase		During cooling and drying operation,	
Malfunction of phase	114	compressor will stop while indoor fan will	Danies syttem control namel AD4
current detection	U1	operate;	Replace outdoor control panel AP1
circuit for compressor		During heating operation, the complete	
		unit will stop	
		During cooling and drying operation,	
Malfunction of voltage		compressor will stop while indoor fan will	
dropping for DC	U3	operate;	Supply voltage is unstable
busbar		During heating operation, the complete	
		unit will stop	
		During cooling and drying operation, the	
Malfunction of		compressor will stop while indoor fan will	Theres circuit malfunction on outdoor units control panel
complete units current	U5	operate;	AP1, please replace the outdoor units control panel AP1.
detection		During heating operating, the complete	1, picase replace the outdoor units control paner Ar 1.
		unit will stop operation.	
Cold air			
prevention	E9		Not the error code. It's the status code for the operation.
protection			
Refrigerant			Refrigerant recovery. The Serviceman operates it for
recovery	Fo		maintenance.
mode			
			Outdoor ambient temperature exceeds the operation range
		Cool: compressor and outdoor fan stops	of unit (eg: less than-20°C or more than 60°C for cooling;
Undefined		operation, while indoor fan operates;	more than 30°C for heating);
outdoor unit	οE	Heat: compressor, outdoor fan and indoor	2. Failure startup of compressor?
error		fan stop operation.	3. Are wires of compressor not connected tightly?
		lan stop operation.	4. Is compressor damaged?
			5. Is main board damaged?
14 16 11 6			Main board of indoor unit is damaged;
Malfunction of	JF	Loads operate normally, while the unit	2. Detection board is damaged;
detecting plate(WIFI)		can't be normally controlled by APP.	3. The connection between indoor unit and detection board is
			not good;

9.2 Procedure of Troubleshooting

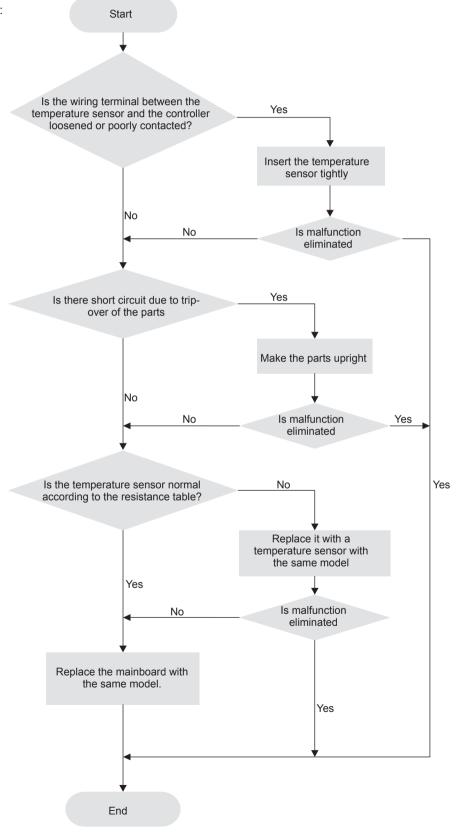
• Indoor unit:

1. Malfunction of Temperature Sensor F1, F2

Main detection points:

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

Malfunction diagnosis process:

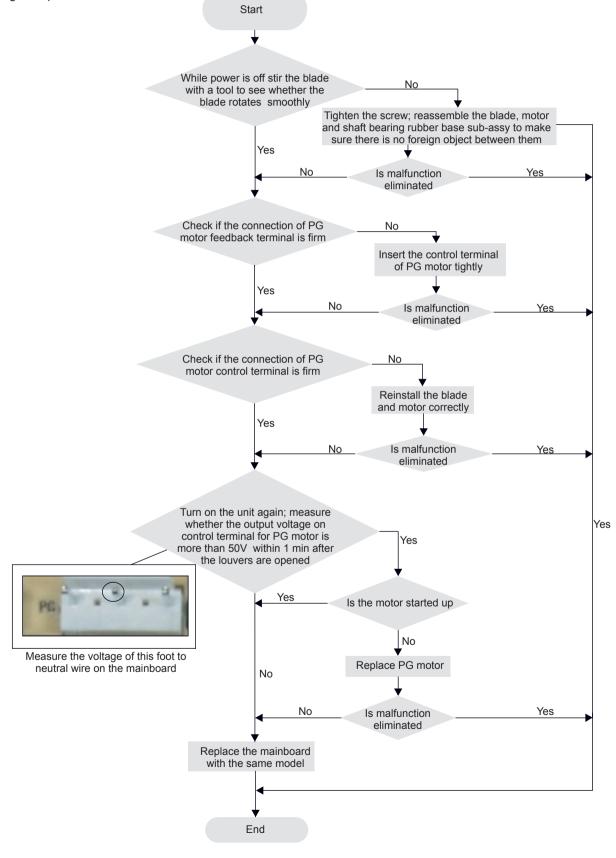


2. Malfunction of Blocked Protection of IDU Fan Motor H6

Main detection points:

- SmoothlyIs the control terminal of PG motor connected tightly?
- SmoothlyIs the feedback interface of PG motor connected tightly?
- The fan motor can't operate?
- The motor is broken?
- Detectioncircuit of the mainboard is defined abnormal?

Malfunction diagnosis process:

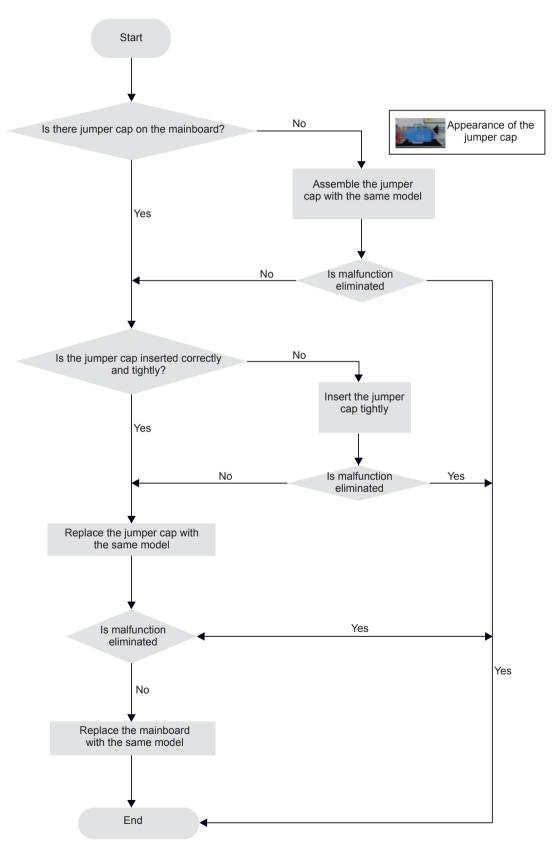


3. Malfunction of Protection of Jumper Cap C5

Main detection points:

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

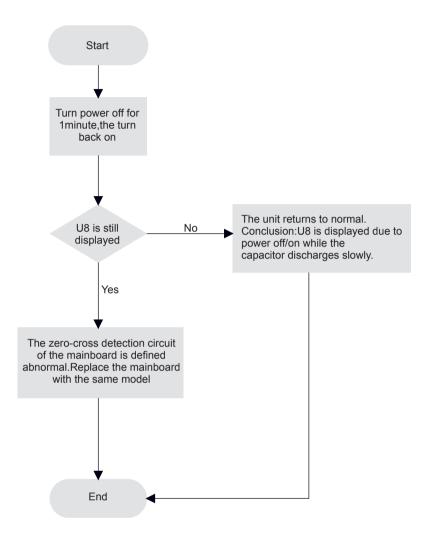
Malfunction diagnosis process:



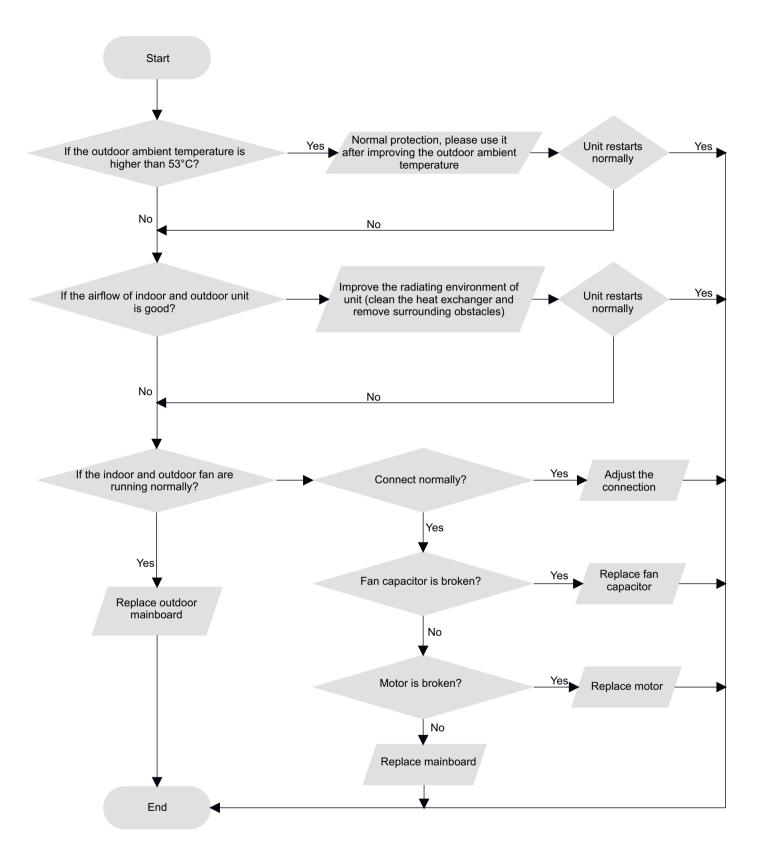
4. Malfunction of Zero-crossing Inspection Circuit Malfunction of the IDU Fan Motor U8

Main detection points:

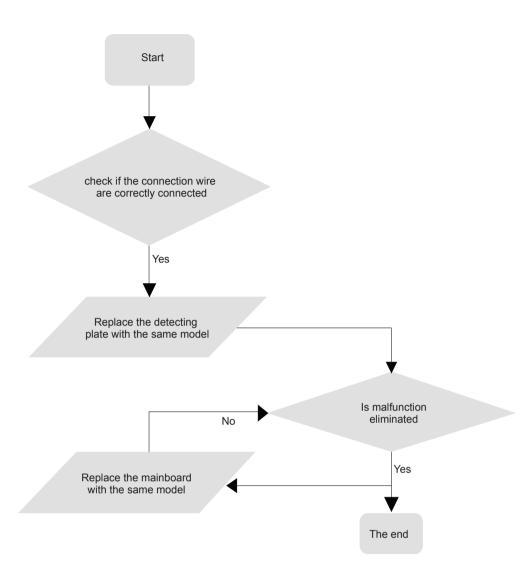
- Instant energization afte de-energization while the capacitordischarges slowly?
- The zero-cross detectioncircuit of the mainboard is defined abnormal? Malfunction diagnosis process:



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



6. Malfunction of detecting plate(WIFI) JF



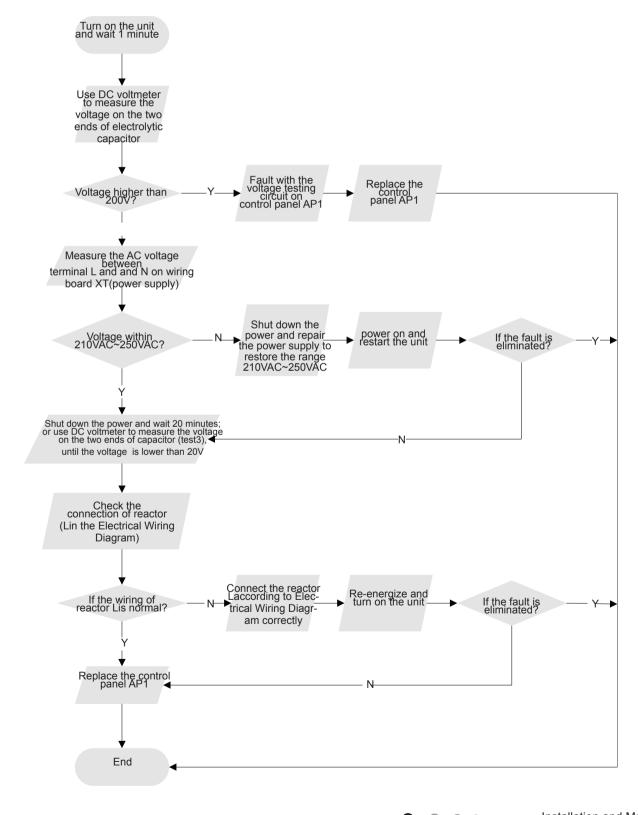
• Outdoor unit:

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

Main detection point:

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

Malfunction diagnosis process:

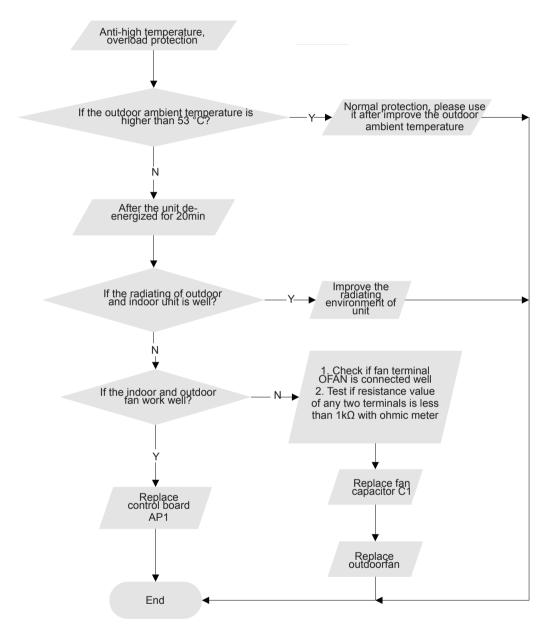


2. Diagnosis for anti-high temperature, overload protection (AP1 below is control board of outdoor unit)

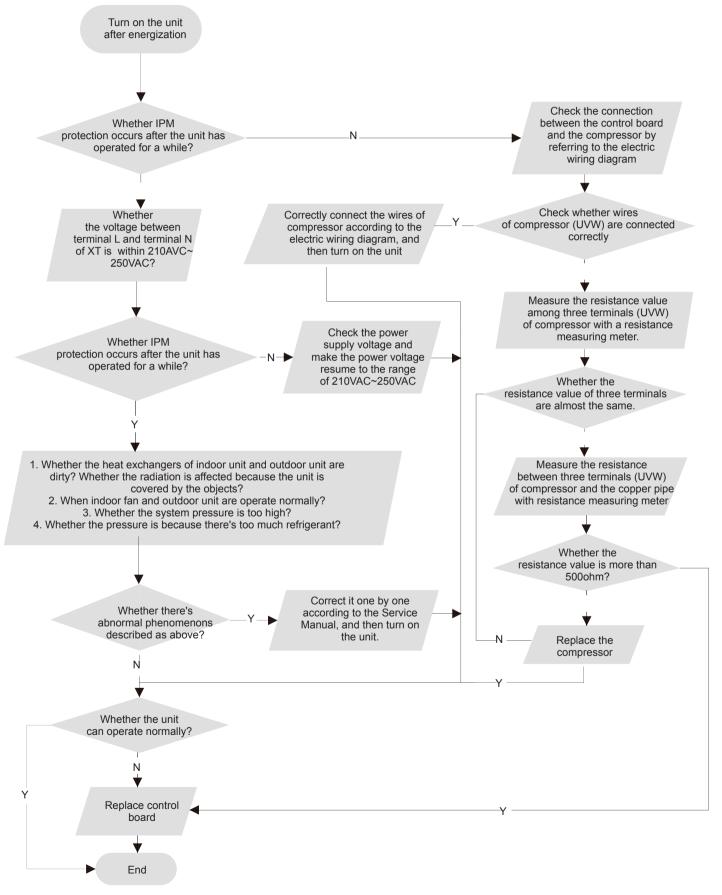
Main detection point:

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

Malfunction diagnosis process:



- 3. IPM protection, phase current overcurrent (the control board as below indicates the control board of outdoor unit) H5/P5 Mainly detect:
- (1) Compressor COMP terminal (2) voltage of power supply (3) compressor
- (4) Refrigerant-charging volume (5) air outlet and air inlet of outdoor/indoor unit Troubleshooting:

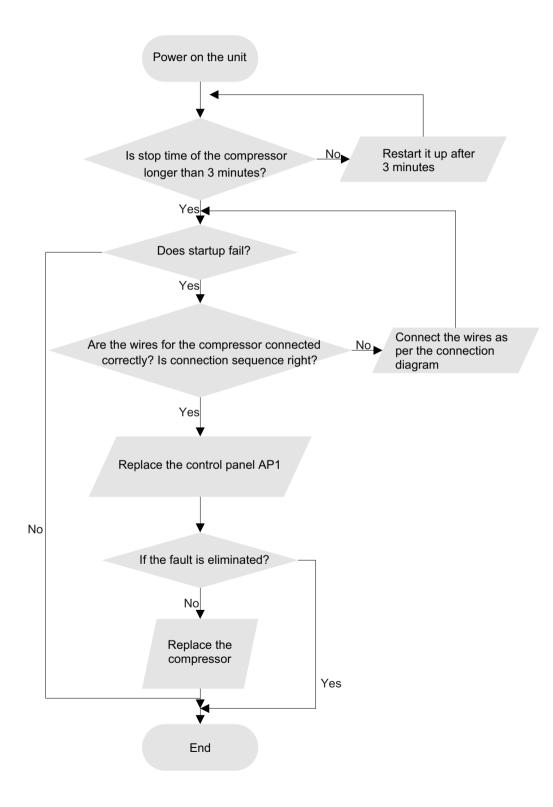


4. Start-up failure (following AP1 for outdoor unit control board)

Mainly detect:

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

Fault diagnosis process:

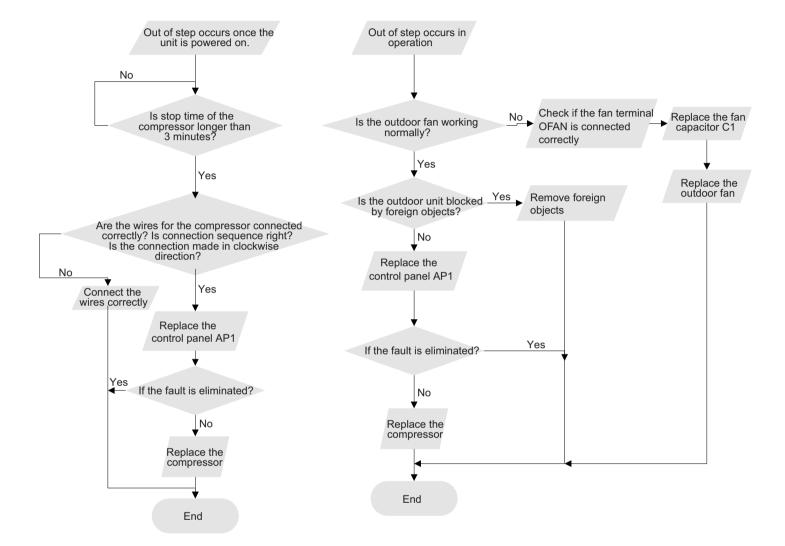


5. Out of step diagnosis for the compressor (AP1 hereinafter refers to the control board of the outdoor unit)

Mainly detect:

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

Fault diagnosis process:

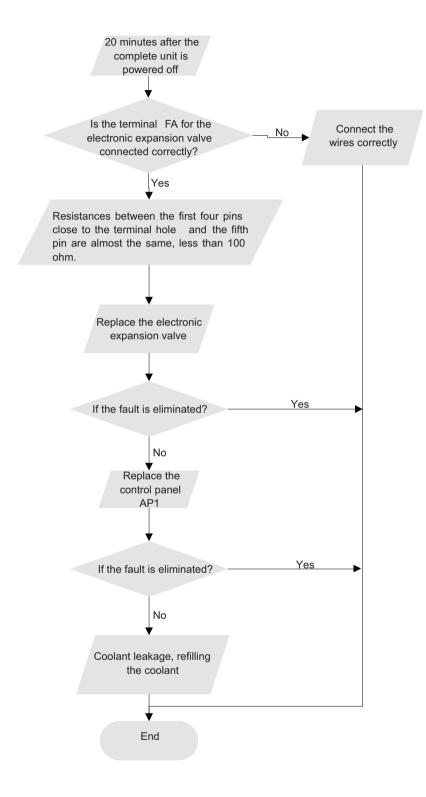


6. Overload and air exhaust malfunction diagnosis (following AP1 for outdoor unit control board)

Mainly detect:

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

Fault diagnosis process:

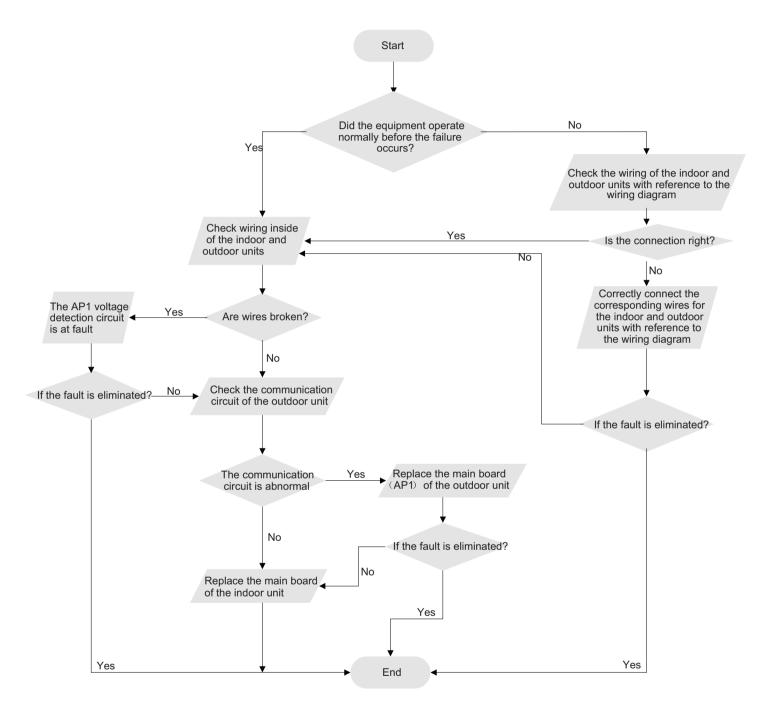


7. Communication malfunction: (following AP1 for outdoor unit control board)

Mainly detect:

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

Fault diagnosis process:

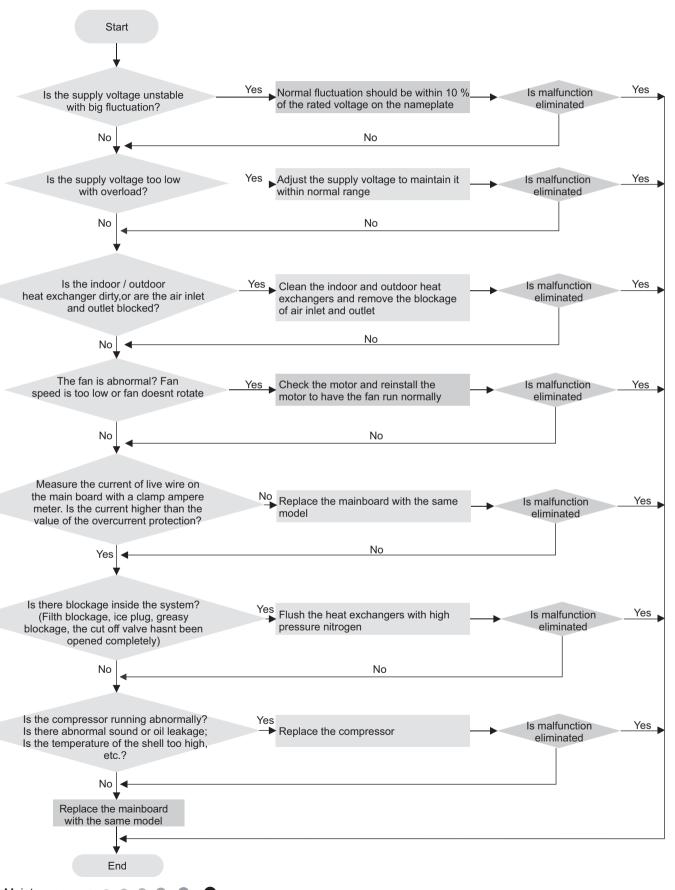


8. Malfunction of Overcurrent Protection

Main detection points:

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

Malfunction diagnosis process:



9.3 Troubleshooting for Normal Malfunction

1. Air Conditioner 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 isnt 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 isnt bright after energization	Check the circuit according to circuit diagram and connect wires correctly. Make sure all wiring terminals are connected firmly
Electric leakage for air conditioner	After energization, room circuit breaker trips off at once	Make sure the air conditioner is grounded reliably Make sure wires of air conditioner is connected correctly Check the wiring inside air conditioner. Check whether the insulation layer of power cord is damaged; if yes, place the power cord.
Model selection for air switch is improper	After energization, air switch trips off	Select proper air switch
Malfunction of remote controller	After energization, operation indicator is bright, while no display on remote controller or buttons have no action.	Replace batteries for remote controller Repair or replace remote controller

2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see it's blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation postion is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rainproof and sunproof for outdoor unit
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Units pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add refrigerant.
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unitt pressure is much lower than regulated range. If refrigerant isnt leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver 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
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 nigh	vollage The vollage is a little filon of 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
vvianonno is noi noni	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 therere 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 therere 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	Ulitador linit dives olit appormal solina	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. Exploded View and Parts List

10.1 Indoor Unit

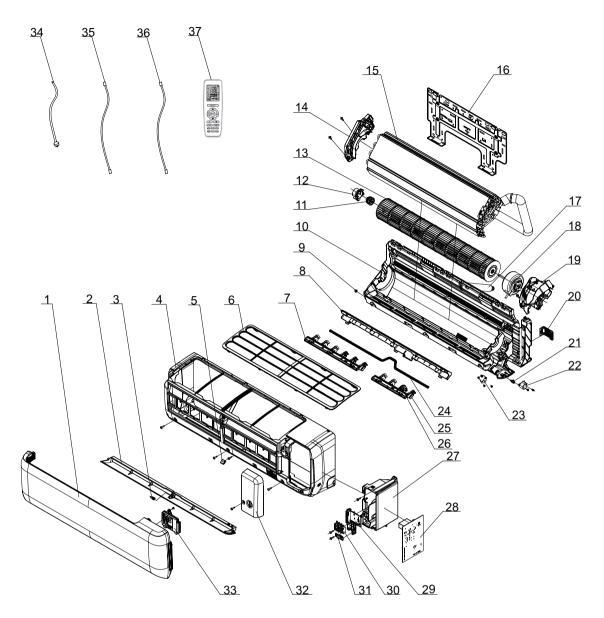
ATA / ATB

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

NO.	Description
1	O-Gasket sub-assy of Bearing
2	Ring of Bearing
3	Axile Bush Sub-assy
4	Evaporator Support
5	Cross Flow Fan
6	Evaporator Sub-Assy
7	Evaporator Assy
8	Temp Sensor Sleeving
9	Drainage Hose
10	Rear Case Sub-Assy
11	Rear Case assy
12	Wall Mounting Frame
13	Fan Motor
14	Connecting pipe clamp
15	Rubber Plug (Water Tray)
16	Helicoid Tongue
17	Stepping Motor
18	Swing Lever
19	Air Louver 2

NO.	Description
20	Stepping Motor
21	Electric Box Assy
22	Cable Clamp 2
23	Terminal Board
24	Wire Clamp
25	Jumper
26	Electric Box Cover
27	Front Panel
28	Front Case Sub-assy
29	Screw Cover
30	Filter Sub-Assy
31	Axile Bush
32	Guide Louver
33	Air Louver 1
34	Left Axile Bush
35	Power Cord
36	Connecting Cable
37	Connecting Cable
38	Remote Controller

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



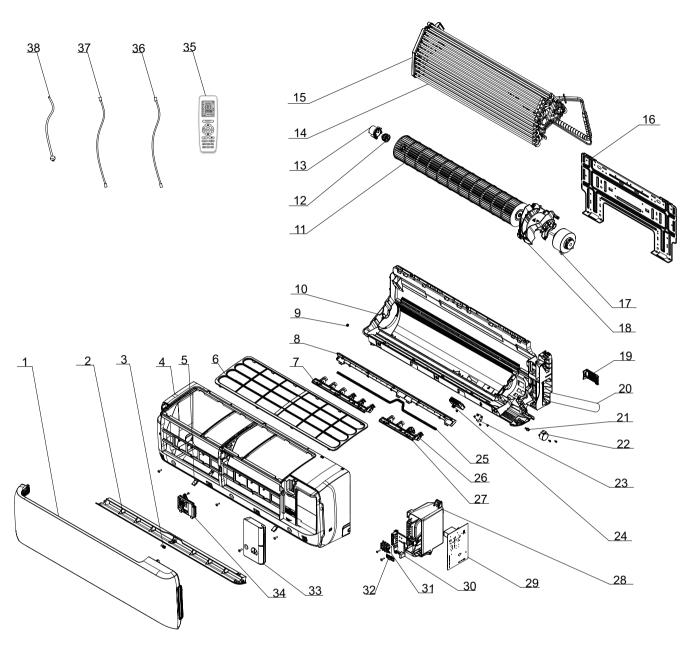
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Front Panel
2	Guide Louver
3	Axile Bush
4	Front Case
5	Screw Cover
6	Filter Sub-Assy
7	Air Louver (left)
8	Helicoid Tongue
9	Left Axile Bush
10	Rear Case Sub-Assy
11	O-Gasket sub-assy of Bearing
12	Ring of Bearing
13	Cross Flow Fan
14	Evaporator Support
15	Evaporator Assy
16	Wall Mounting Frame
17	Drainage Hose
18	Fan Motor
19	Motor Press Plate

NO.	Description
20	Connecting pipe clamp
21	Crank
22	Stepping Motor
23	Stepping Motor
24	Swing Lever
25	Air Louver
26	Air Louver(right)
27	Electric Box Assy
28	Main Board
29	Supporter(Electric Box)
30	Terminal Board
31	Cable Clamp
32	Electric Box Cover
33	Display Board
34	Power Cord
35	Connecting Cable
36	Connecting Cable
37	Remote Controller

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

ATD (Sweep in all directions)



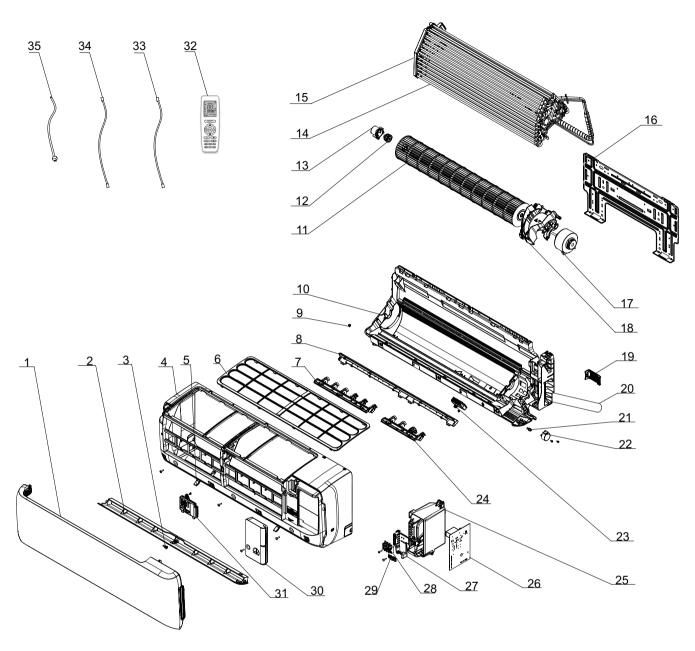
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Front Panel
2	Guide Louver
3	Axile Bush
4	Front Case
5	Screw Cover
6	Filter Sub-Assy
7	Air Louver (left)
8	Helicoid Tongue
9	Left Axile Bush
10	Rear Case Sub-Assy
11	Cross Flow Fan
12	Ring of Bearing
13	O-Gasket sub-assy of Bearing
14	Evaporator Assy
15	Evaporator Support
16	Wall Mounting Frame
17	Fan Motor
18	Motor Press Plate
19	Connecting pipe clamp

NO.	Description
20	Drainage Hose
21	Crank
22	Stepping Motor
23	Stepping Motor
24	Plasmacluster Ion
25	Swing Lever
26	Air Louver
27	Air Louver(right)
28	Electric Box
29	Main Board
30	Supporter(Electric Box)
31	Terminal Board
32	Cable Clamp
33	Electric Box Cover
34	Display Board
35	Remote Controller
36	Connecting Cable
37	Connecting Cable
38	Power Cord

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

ATD (Sweep up and down)

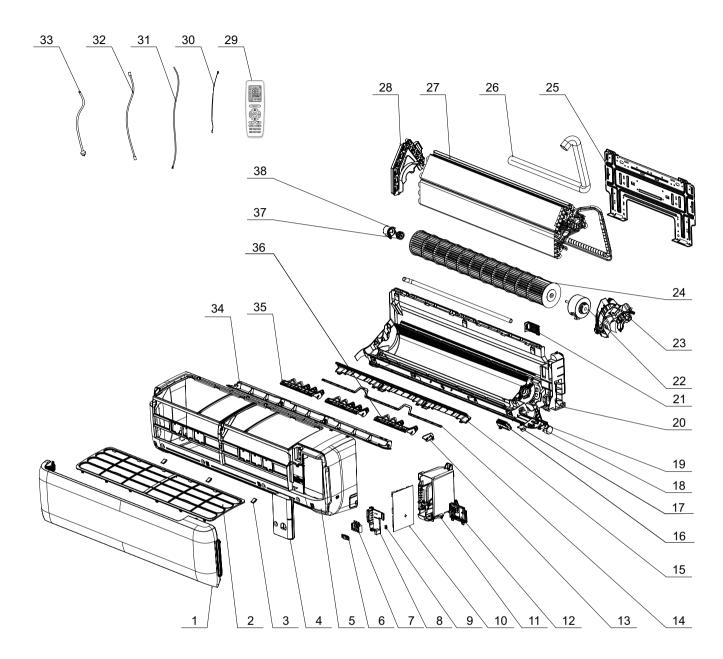


The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Front Panel
2	Guide Louver
3	Axile Bush
4	Front Case
5	Screw Cover
6	Filter Sub-Assy
7	Air Louver (left)
8	Helicoid Tongue
9	Left Axile Bush
10	Rear Case Sub-Assy
11	Cross Flow Fan
12	Ring of Bearing
13	O-Gasket sub-assy of Bearing
14	Evaporator Assy
15	Evaporator Support
16	Wall Mounting Frame
17	Fan Motor
18	Motor Press Plate

NO.	Description
19	Connecting pipe clamp
20	Drainage Hose
21	Crank
22	Stepping Motor
23	Plasmacluster Ion
24	Air Louver(right)
25	Electric Box
26	Main Board
27	Supporter(Electric Box)
28	Terminal Board
29	Cable Clamp
30	Electric Box Cover
31	Display Board
32	Remote Controller
33	Connecting Cable
34	Connecting Cable
35	Power Cord

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



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

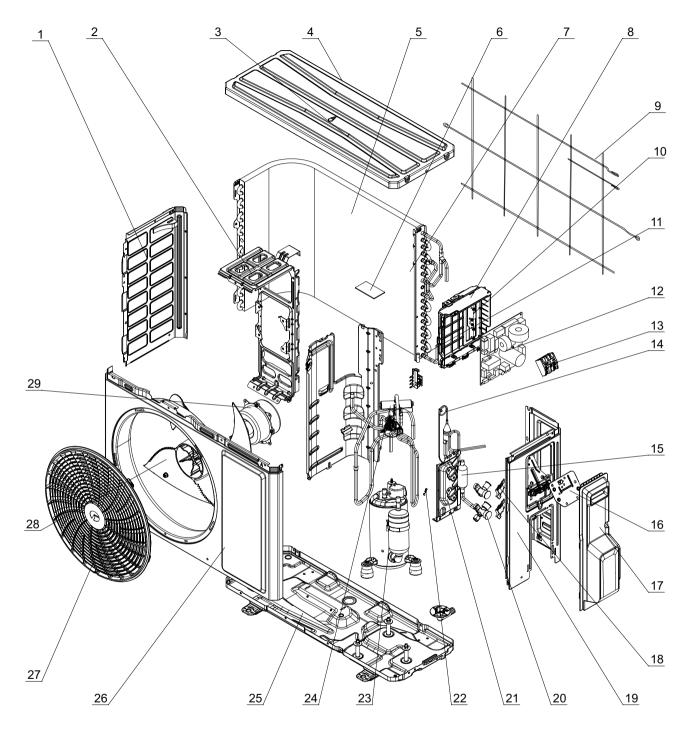
NO.	Description
1	Front Panel
2	Filter Sub-Assy
3	Screw Cover
4	Electric Box Cover
5	Front Case
6	Cable Clamp 2
7	Terminal Board
8	Supporter
9	Jumper
10	Main Board
11	Electric Box
12	Display Board
13	Air Louver
14	Swing Lever
15	Helicoid Tongue
16	Plasmacluster Ion
17	Stepping Motor
18	Crank
19	Stepping Motor

NO.	Description
20	Rear Case
21	Connecting pipe clamp
22	Brushless DC Motor
23	Motor Press Plate
24	Cross Flow Fan
25	Wall Mounting Frame
26	Thermal Insulation Pipe
27	Evaporator Assy
28	Evaporator Support
29	Remote Controller
30	Temperature Sensor
31	Connecting Cable
32	Connecting Cable
33	Power cord
34	Guide Louver
35	Air Louver 1
36	Air Louver 1
37	O-Gasket sub-assy of Bearing
38	Ring of Bearing

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

10.2 Outdoor Unit

GWH07AGA-K6DNA1A/O



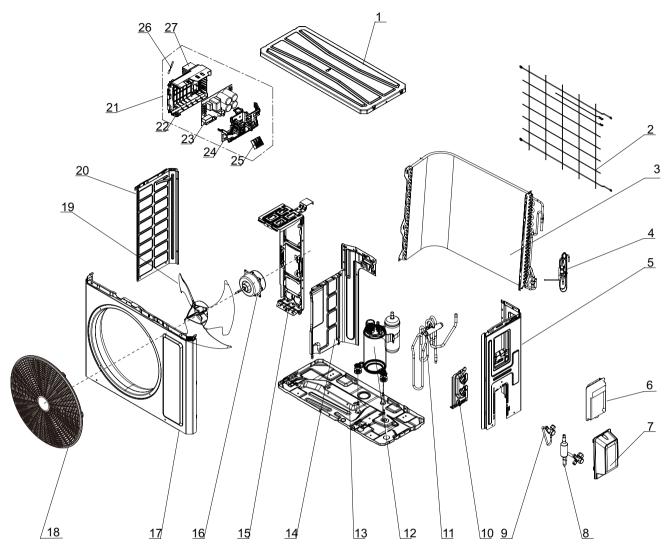
The component is only for rererence; please refer to the actual product

NO.	Description
1	Left Side Plate
2	Motor Support
3	Top Cover Sub-Assy
4	Top Cover
5	Condenser Sub-Assy
6	Sponge(Condenser)
7	Condenser Assy
8	Electric Box Assy
9	Rear Grill
10	Electric Box
11	Temp Sensor Sleeving
12	Main Board
13	Terminal Board
14	Capillary Sub-Assy
15	Silencer

NO.	Description
16	Earthing Plate Sub-Assy
17	Handle
18	Valve Support Block
19	Right Side Plate
20	Cut off Valve 1/4
21	Valve Support
22	Sensor Insert
23	Compressor and Fittings
24	4-Way Valve Assy
25	Chassis Sub-Assy
26	Cabinet
27	Front Grill
28	Axial Flow Fan
29	Fan Motor

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

GWH09AGAXB-K6DNA1B/O GWH09AGBXB-K6DNA1A/O GWH09ATCXB-K6DNA1A/O GWH12ATBXB-K6DNA1D/O GWH12ATDXB-K6DNA1A/O



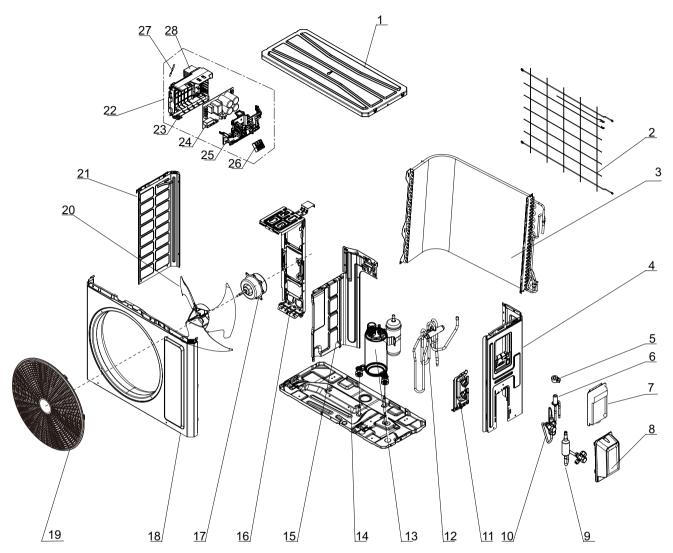
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Coping
2	Rear Grill
3	Condenser Assy
4	Capillary Sub-Assy
5	Right Side Plate
6	Cover of Pass Wire
7	Valve Cover
8	Cut-off valve Sub-Assy
9	Cut-off valve
10	Valve Support
11	4-way valve assy
12	Compressor and Fittings
13	Chassis Sub-Assy
14	Clapboard

NO.	Description
15	Motor Support
16	Brushless DC Motor
17	Cabinet
18	Front Grill
19	Axial Flow Fan
20	Left Side Plate
21	Electric Box Assy
22	Electric Box
23	Main Board
24	Electric Box Cover
25	Terminal Board
26	Temperatue Sensor
27	Radiator

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

GWH12ATCXB-K6DNA1A/O



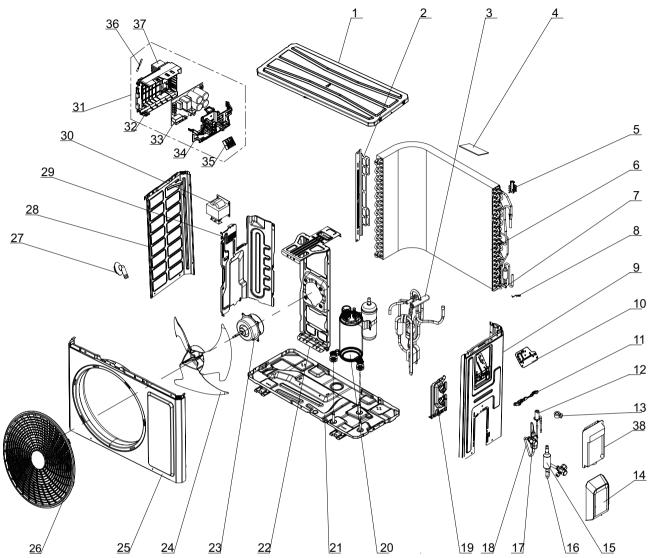
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Coping
2	Rear Grill
3	Condenser Assy
4	Right Side Plate
5	Electric Expand Valve Fitting
6	Electronic Expansion Valve
7	Handle
8	Valve Cover
9	Cut-off valve Sub-Assy
10	Cut-off valve
11	Valve Support
12	4-way valve assy
13	Compressor and Fittings
14	Chassis Sub-Assy

NO.	Description
15	Clapboard
16	Motor Support
17	Brushless DC Motor
18	Cabinet
19	Front Grill
20	Axial Flow Fan
21	Left Side Plate
22	Electric Box Assy
23	Electric Box
24	Main Board
25	Electric Box Cover
26	Terminal Board
27	Temperatue Sensor
28	Radiator

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

GWH18ATDXD-K6DNA1A/O



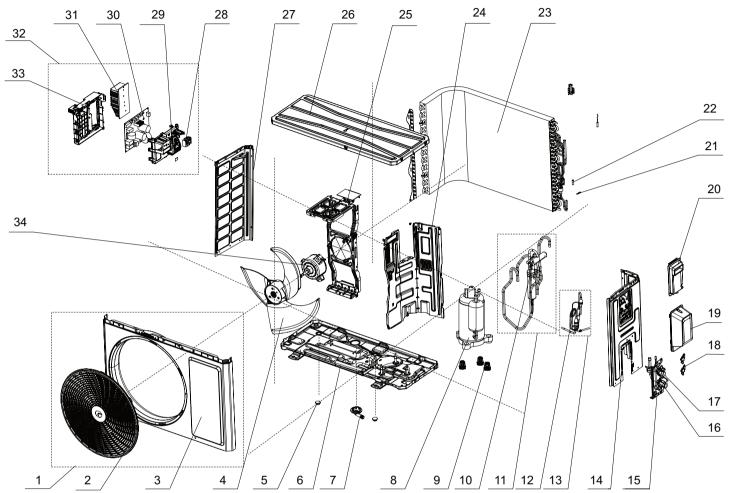
The component picture is only for reference; please refer to the actual product.

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

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

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

GWH24ATDXE-K6DNA1A/O (The front grill appearance is for reference only.)



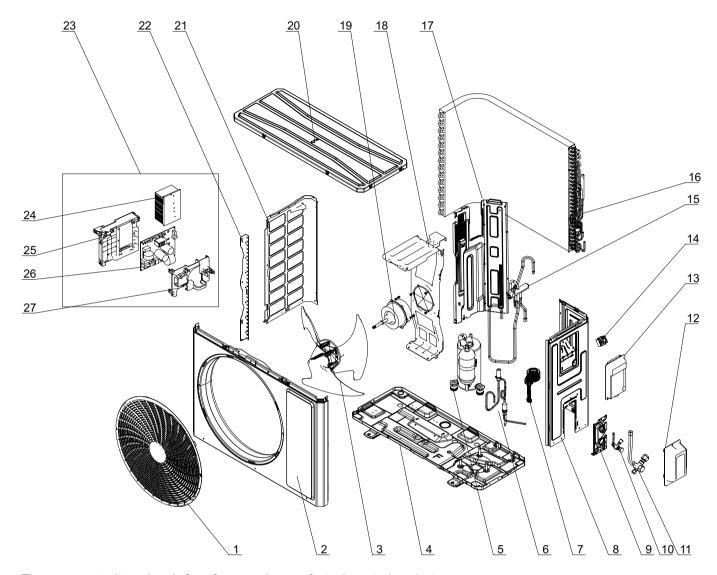
The component picture is only for reference; please refer to the actual product.

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

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

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

GWH24AFE-K6DNA2I/O



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

NO.	Description
1	Front Grill
2	Cabinet
3	Axial Flow Fan
4	Chassis Sub-assy
5	Compressor and fittings
6	Electron expansion valve
7	Electric Expand Valve Fitting
8	Right Side Plate Assy
9	Valve Support Sub-Assy
10	Cut-off Valve
11	Cut-off Valve
12	Valve Cover
13	Handle
14	Terminal Board

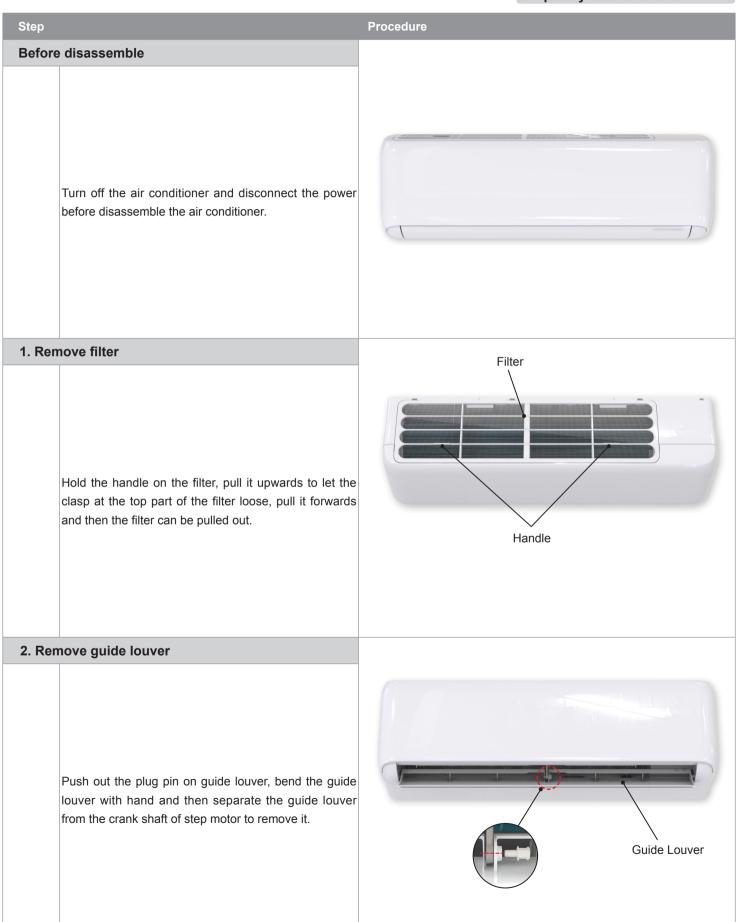
NO.	Description
15	4-way valve Assy
16	Condenser Assy
17	Clapboard Assy
18	Motor Support Sub-Assy
19	Brushless DC Motor
20	Top Cover Assy
21	Left Side Plate
22	Condenser Left Border Plate
23	Electric Box Assy
24	Radiator
25	Electric Box
26	Main Board
27	Electric Box Cover

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

11. Removal Procedure

11.1 Removal Procedure of Indoor Unit

Caution: discharge the refrigerant completely before removal.



Step

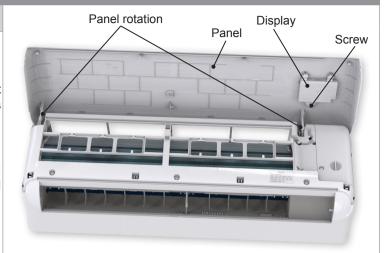
Procedure

3. Remove panel

Open the front panel; separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.

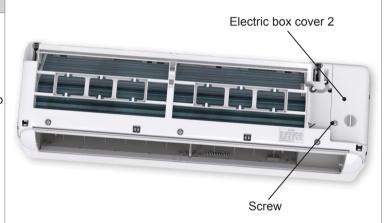
Note:

The display of some models is fixed on the panel; unscrew the screws fixing the display on the panel before removing the panel.



4. Remove electric box cover 2

Remove the screws on the electric box cover 2 to remove the electric box cover 2.

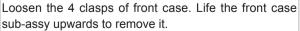


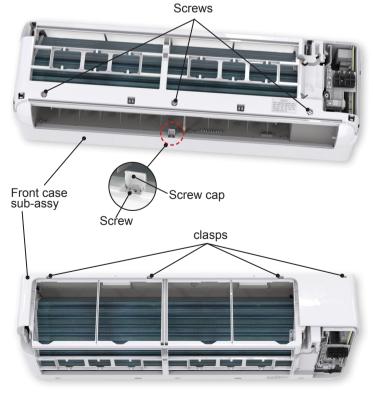
5. Remove front case sub-assy

Remove the screws fixing front case.

а Note:

- (1) Open the screw caps before removing the screws around the air outlet.
- (2) The quantity of screws fixing the front case subassy is different for different models.





Installation and Maintenance

b

Step Procedure 6. Remove electric box assy Screw а Remove the screw fixing electric box assy. 0 Grounding Indoor tube screw temperature sensor Electric box assy Wiring terminal of motor Main board 1) Cut off the wire binder and pull out the indoor tube temperature sensor. Wiring terminal of cold plasma 2 Screw off one grounding screw. generator 3 Remove the wiring terminals of motor, cold plasma b generator and stepping motor. Wiring terminal 4 Remove the electric box assy. of stepping motor ⑤ Screw off the screws that are locking each. Screws Wire binder **ATA ATB ATC** 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. Wire clip Screw Power cord ATD ATE С Instruction:Some wiring terminal of this products is with lock catch and other devices. The pulling method is as below: Holder Circlip. 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. Connector Soft sheath

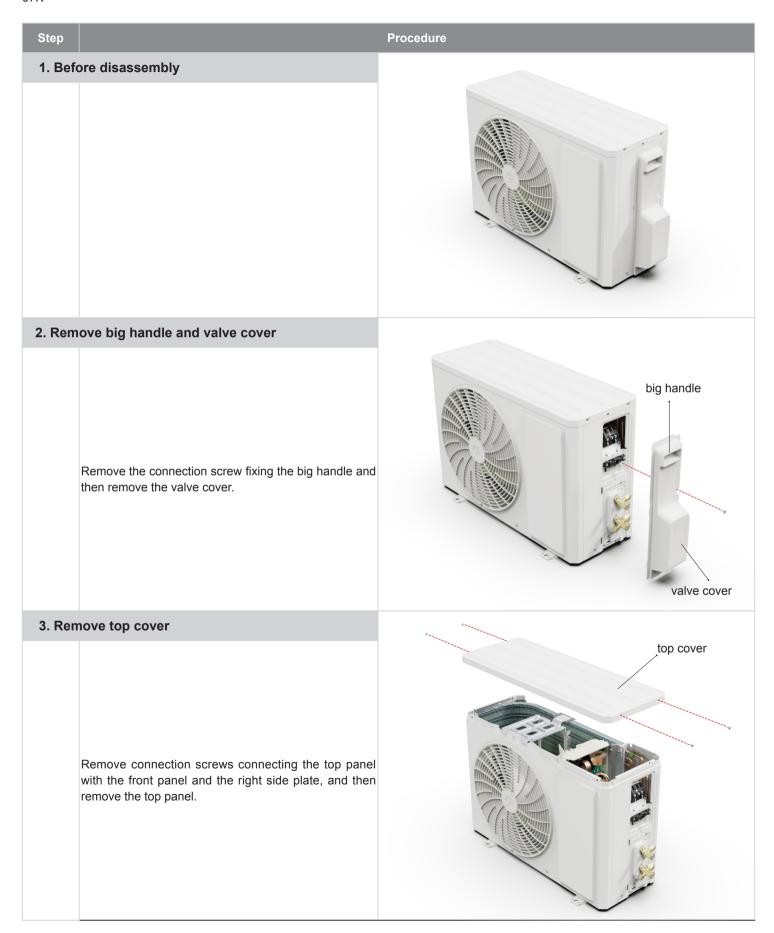
Step		Procedure
7. Ren	nove evaporator assy	
а	Remove 2 screws fixing evaporator assy.	Screws
	At the back of the unit, Loosen the clasp of the connection pipe clamp and then remove the connection pipe clamp.	Connection pipe clamp
С	First remove the left side of evaporator from the groove of bottom shell and then remove the right side from the clasp on the bottom shell.	Clasp
	Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.	

Procedure Step 8. Remove motor and cross flow fan Remove 3 screws fixing motor clamp and then remove а the motor clamp. Screws cross flow fan motor Screw Loose the screws (2-3 circles) used for fixing the cross b 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. Screws

11.2 Removal Procedure of Outdoor Unit

Caution: discharge the refrigerant completely before removal.

07K



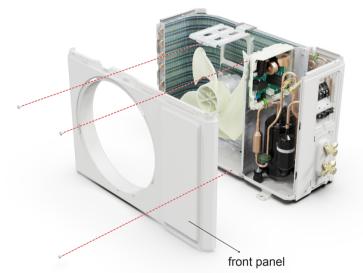
4. Remove grille

Remove connection screws between the front grille and the front panel. Then remove the grille.



5. Remove front panel

Remove connection screws connecting the front panel with the chassis and the motor support and then remove the front panel.



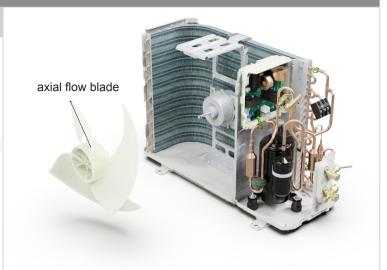
6. Remove right side plate

Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.



7. Remove axial flow blade

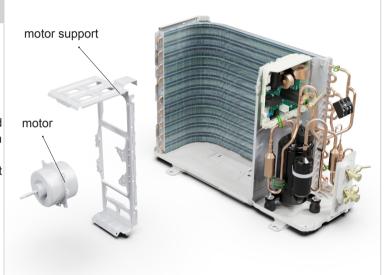
Remove the nut on the blade and then remove the axial flow blade.



8. Remove motor and motor support

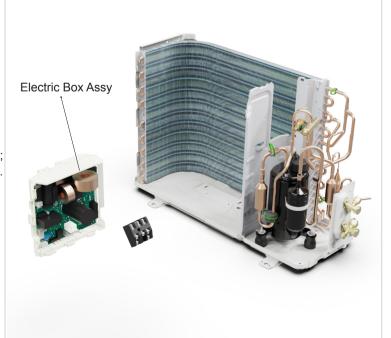
Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor.

Remove the tapping screws fixing the motor support and lift the motor support to remove it.



9. Remove Electric Box Assy

Remove screws fixing the electric box subassembly; loosen the wire bundle and unplug the wiring terminals. Then lift the electric box to remove it.



Step Procedure 10. Remove isolation sheet isolation sheet Remove the screws fixing the isolation sheet and then remove the isolation sheet. 11. Remove compressor 4-way valve Unsolder the welding joint connecting the capillary, valves and the outlet pipe of condenser to remove the а capillary. Do not block the capillary with welding slag during unsoldering. Remove the 2 screws fixing the gas valve and unsolder the welding joint between the gas valve and the airreturn pipe to remove the gas valve. (NOTE: Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature). Remove the 2 screws fixing the liquid valve and unsolder the welding joint connecting the liquid valve to the Y-type pipe to remove the liquid valve. cut-off valve compressor Unsolder pipes connecting with compressor. С nuts Remove the 3 foot nuts on the compressor and then d remove the compressor.



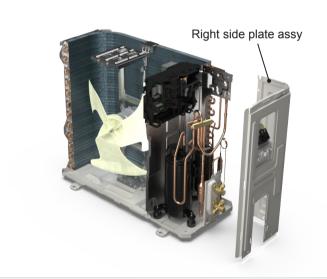
4. Remove front panel assy

Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



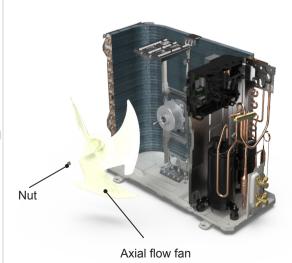
5. Remove right side plate assy

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.



6. Remove axial flow fan

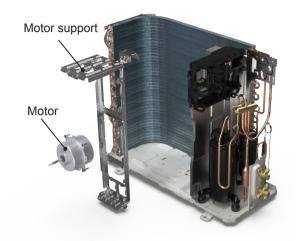
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

Remove the screws fixing the motor support and lift the motor support to remove it.

Remove the screws fixing the motor and then remove the motor.



8. Remove electric box assy

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.



9. Remove clapboard assy

Remove the screws fixing the clapboard assy and then remove the clapboard assy.

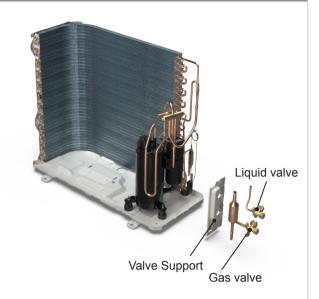


10. Remove gas valve and liquid valve

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.

Note:

Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



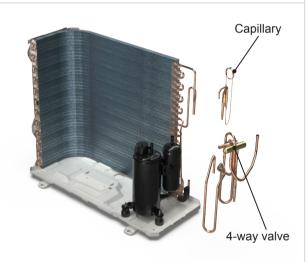
11. Remove 4-way valve and capillary

Unsolder the welding joints connecting capillary, and then remove it.

Unsolder the welding joints connecting the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the 4-way valve. Cooling only unit removes Discharge Tube and Inhalation Tube.

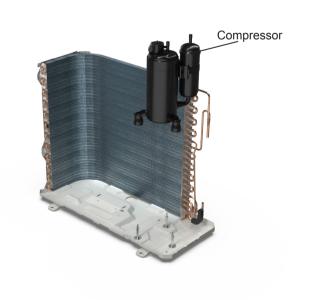
Note:

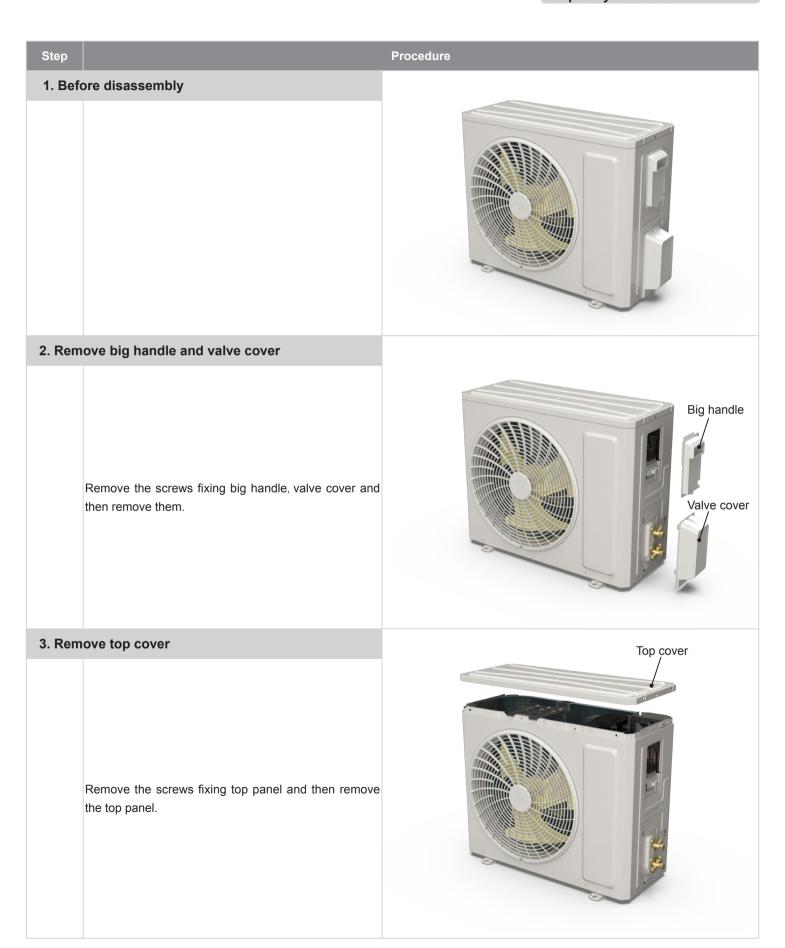
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



12. Remove compressor

Remove the 3 foot nuts on the compressor and then remove the compressor.





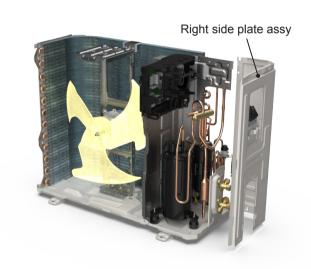
4. Remove front panel assy

Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



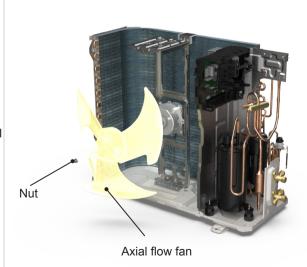
5. Remove right side plate assy

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.



6. Remove axial flow fan

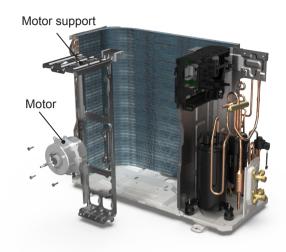
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

Remove the screws fixing the motor support and lift the motor support to remove it.

Remove the screws fixing the motor and then remove the motor.



8. Remove electric box assy

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.



9. Remove clapboard assy

Remove the screws fixing the clapboard assy and then remove the clapboard assy.

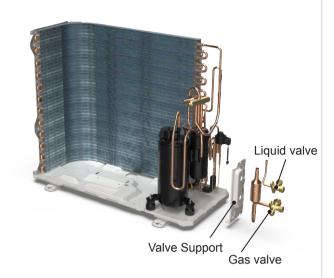


10. Remove gas valve and liquid valve

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.

Note:

Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



11. Remove 4-way valve and electric expansion valve sub-Assy

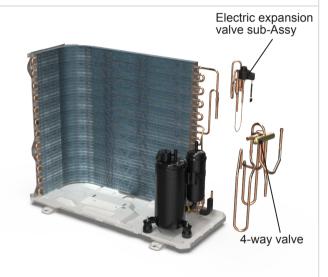
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

Unsolder the spot weld of electric expansion valve sub-Assy and condenser, and then remove the electric expansion valve sub-Assy.

Note:

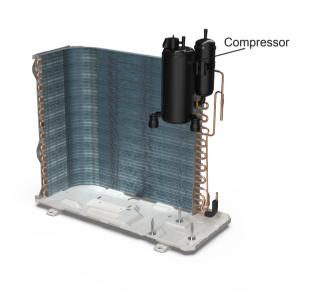
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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.



12. Remove compressor

Remove the 3 foot nuts on the compressor and then remove the compressor.





4. Remove front panel assy

Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



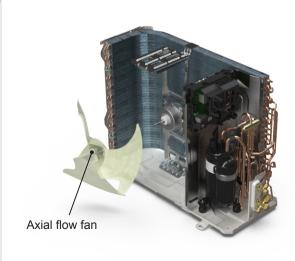
5. Remove right side plate assy

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.



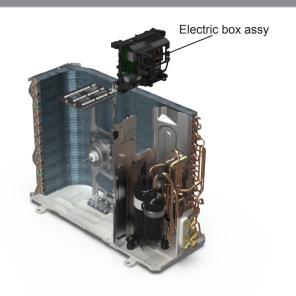
6. Remove axial flow fan

Remove the nut on the fan and then remove the axial flow fan.



7. Remove electric box assy

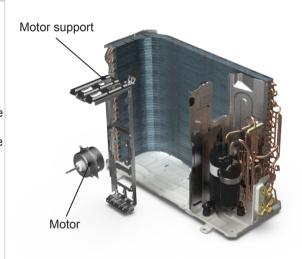
Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.



8. Remove motor and motor support

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.



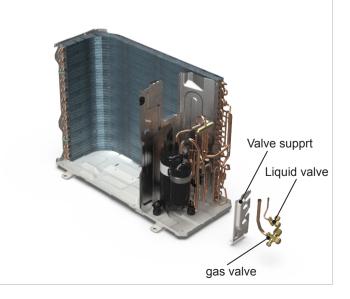
9. Remove gas valve, liquid valve and valve suppprt

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.

Note:

Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

Remove the screws fixing valve support, then remove the valve support.

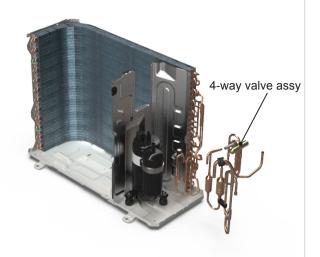


10. Remove 4-way valve assy

Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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.

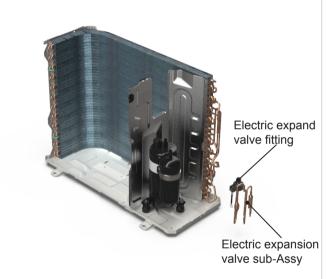


11. Remove electric expansion valve sub-Assy

Unsolder the spot weld of electric expansion valve sub-Assy and condenser, and then remove the electric expansion valve sub-Assy.

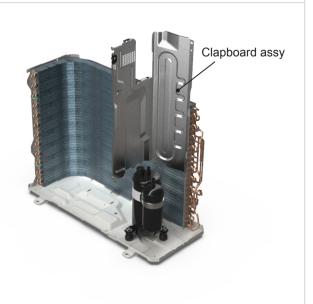
Note:

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.



12. Remove clapboard assy

Remove the screws fixing the clapboard assy and then remove the clapboard assy.



Step		Procedure	
13. Re	emove compressor		Compressor
	Remove the 3 foot nuts on the compressor and then remove the compressor.		

NOTE: The front grill appearance is for reference only. Step Procedure 1. Before disassembly 2. Remove big handle and valve cover Big handle Remove the screws fixing big handle, valve cover and then remove them. Valve cover 3. Remove top cover Top cover Remove the screws fixing top panel and then remove the top panel.

4. Remove front panel assy

Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



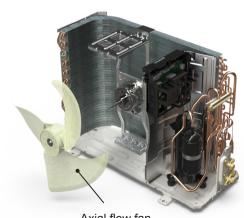
5. Remove right side plate assy

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.



6. Remove axial flow fan

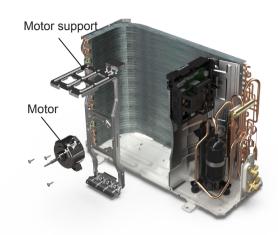
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

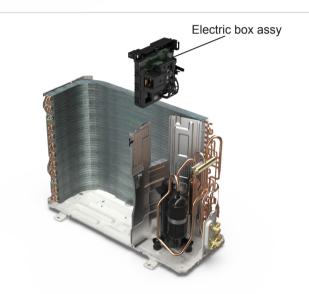
Remove the screws fixing the motor support and lift the motor support to remove it.

Remove the screws fixing the motor and then remove the motor.



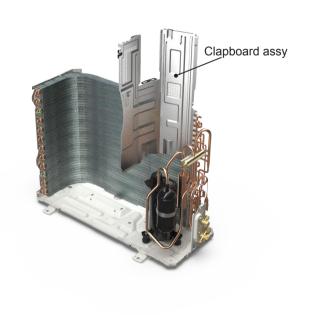
8. Remove electric box assy

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.



9. Remove clapboard assy

Remove the screws fixing the clapboard assy and then remove the clapboard assy.

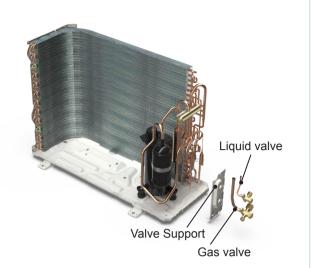


10. Remove gas valve and liquid valve

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.

Note:

Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



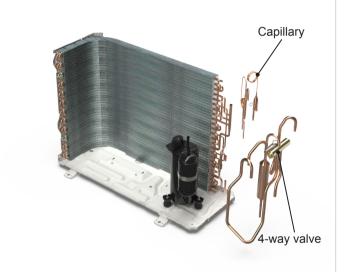
11. Remove 4-way valve and capillary

Unsolder the welding joints connecting capillary, and then remove it.

Unsolder the welding joints connecting the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the 4-way valve. Cooling only unit removes Discharge Tube and Inhalation Tube.

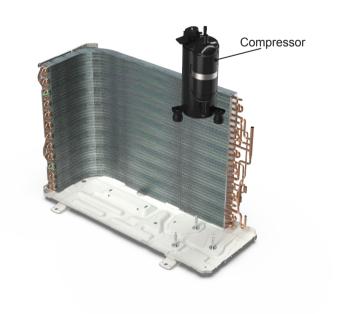
Note:

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.



12. Remove compressor

Remove the 3 foot nuts on the compressor and then remove the compressor.





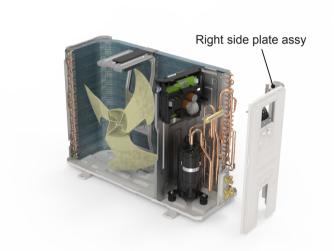
4. Remove front panel assy

Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



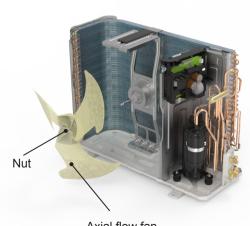
5. Remove right side plate assy

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.



6. Remove axial flow fan

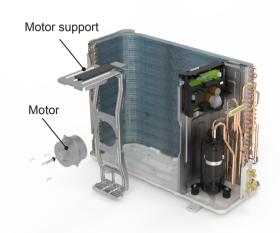
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

Remove the screws fixing the motor support and lift the motor support to remove it.

Remove the screws fixing the motor and then remove the motor.



8. Remove electric box assy

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.



9. Remove clapboard assy

Remove the screws fixing the clapboard assy and then remove the clapboard assy.

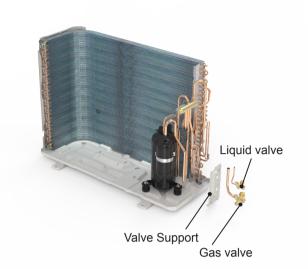


10. Remove gas valve and liquid valve

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.

Note:

Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



11. Remove 4-way valve and electric expansion valve sub-Assy

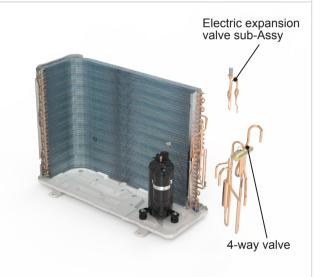
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

Unsolder the spot weld of electric expansion valve sub-Assy and condenser, and then remove the electric expansion valve sub-Assy.

Note:

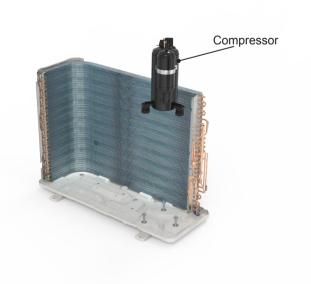
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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.



12. Remove compressor

Remove the 3 foot nuts on the compressor and then remove the compressor.



Appendix:

Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree: Tf=Tcx1.8+32

Set temperature

•		
Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
61	60.8	16
62/63	62.6	17
64/65	64.4	18
66/67	66.2	19
68	68	20

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
69/70	69.8	21
71/72	71.6	22
73/74	73.4	23
75/76	75.2	24
77	77	25

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
78/79	78.8	26
80/81	80.6	27
82/83	82.4	28
84/85	84.2	29
86	86	30

Ambient temperature

, and the forest terms			
Fahrenheit display	Fahrenheit	Celsius	F
temperature (°F)	(°F)	(°C)	te
32/33	32	0	
34/35	33.8	1	
36	35.6	2	
37/38	37.4	3	
39/40	39.2	4	
41/42	41	5	
43/44	42.8	6	
45	44.6	7	
46/47	46.4	8	
48/49	48.2	9	
50/51	50	10	
52/53	51.8	11	
54	53.6	12	

Fahrenheit display	Fahrenheit	Celsius
temperature (°F)	(°F)	(°C)
55/56	55.4	13
57/58	57.2	14
59/60	59	15
61/62	60.8	16
63	62.6	17
64/65	64.4	18
66/67	66.2	19
68/69	68	20
70/71	69.8	21
72	71.6	22
73/74	73.4	23
75/76	75.2	24
77/78	77	25

Fahrenheit display		Celsius
temperature (°F)	(°F)	(°C)
79/80	78.8	26
81	80.6	27
82/83	82.4	28
84/85	84.2	29
86/87	86	30
88/89	87.8	31
90	89.6	32
91/92	91.4	33
93/94	93.2	34
95/96	95	35
97/98	96.8	36
99	98.6	37

Appendix 2: Configuration of Connection Pipe

- 1. Standard length of connection pipe(More details please refer to the specifications.)
- 2. Min. length of connection pipe for the unit with standard connection pipe of 5m, there is no limitation for the min. length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min. length of connection pipe is 3m.
- 3. Max. length of connection pipe and max. high difference. (More details please refer to the specifications.)
- 4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe
- After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.
- The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):
- Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.
- Additional refrigerant charging amount = prolonged length of liquid pipe X additional refrigerant charging amount per meter.

	Additional refrigerant charging amount for R32			
Pipin	g size	Indoor unit throttle	Outdoor u	nit 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"	14	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"	1	200	200	200
7/8"	1	280	280	280

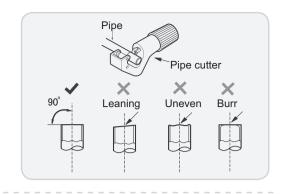
Appendix 3: Pipe Expanding Method

⚠ Note:

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

A:Cut the pip

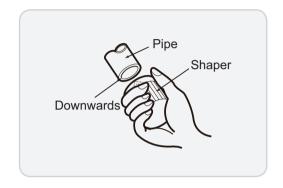
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B:Remove the burrs

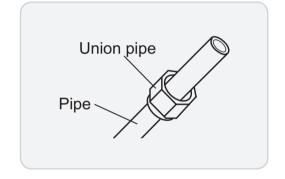
• Remove the burrs with shaper and prevent the burrs from getting into the pipe.

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.



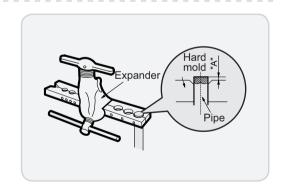
E:Expand the port

• Expand the port with expander.

⚠ Note:

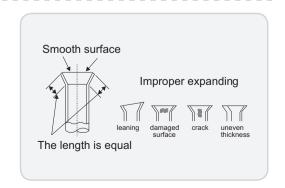
• "A" is different according to the diameter, please refer to the sheet below:

Outer diameter/mm)	A(mr	n)
Outer diameter(mm)	Max	Min
Ф6 - 6.35 (1/4")	1.3	0.7
Ф9.52 (3/8")	1.6	1.0
Ф12 - 12.70 (1/2")	1.8	1.0
Ф16 - 15.88 (5/8")	2.4	2.2



F:Inspection

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



Appendix 4: List of Resistance for Temperature Sensor

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

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

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

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

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

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

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

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

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

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

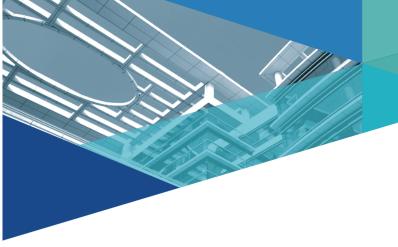
Resistance Table of Discharge Temperature Sensor for Outdoor(50K)

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

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

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

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



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