



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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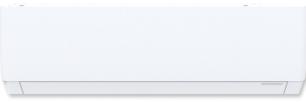
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1. Summary

Indoor Unit:





A4 panel (White)

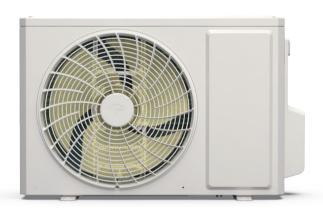


A4 panel (Sliver)

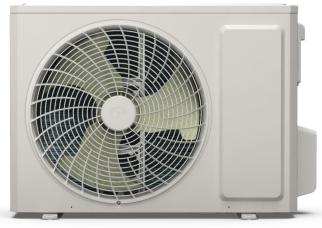


Outdoor Unit:

GWH07AGA-K6DNA1A/O



GWH18AGD-K6DNA1E/O



A2 panel



A4 panel (Black)

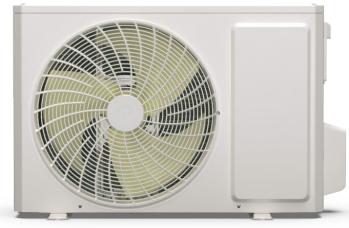


GWH09AGBXB-K6DNA1A/O GWH09AFC-K6DNA2F/O GWH12AGCXB-K6DNA1A/O GWH12AGBXB-K6DNA4C/O

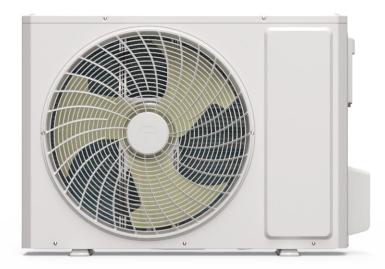
GWH09AGAXB-K6DNA1B/O GWH12AGBXB-K6DNA1A/O GWH12AFC-K6DNA2F/O GWH18AGD-K6DNA1D/O



GWH24AGD-K6DNA1C/O



GWH24AFE-K6DNA2I/O



Remote Controller:

YAP1F7(WiFi)

YAY1F







Model list:

No.	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1	GWH07AGA-K6DNA1A	CB385001101	GWH07AGA-K6DNA1A/I	CB385N01101	GWH07AGA-K6DNA1A/O	CB385W01100	
2	CVA/I IOO A C A VD I/CDAIA 4 D	CB385009900	CVA/LIONA C A VELICEDALA 4 D/L	CB385N09900		0000511100000	
3	GWH09AGAXB-K6DNA1B	CB385009901	GWH09AGAXB-K6DNA1B/I	CB385N09901	GWH09AGAXB-K6DNA1B/O	CB385W09900	
4	GWH09AGBXB-K6DNA1A	CB385017100	GWH09AGBXB-K6DNA1A/I	CB385N17100	GWH09AGBXB-K6DNA1A/O	CB385W17100	
5		CB558009801		CB558N09800			YAP1F7
6	GWH09AGCXB-K6DNA4F	CB558009802	GWH09AGCXB-K6DNA4F/I	CB558N09802	GWH09AFC-K6DNA2F/O	CB363W02901	(WiFi)
7		CB558009803		CB558N09803			
8	CVAULIAGA CRYP IZCRALA A	CB385017900	CVA/LI40A CDVD I/CDNIA4A/I	CB385N17900			
9	GWH12AGBXB-K6DNA1A	CB385017901	GWH12AGBXB-K6DNA1A/I	CB385N17901	GWH12AGBXB-K6DNA1A/O	CB385W17900	
10	GWH12AGBXB-K6DNA4A	CB558009500	GWH12AGBXB-K6DNA4A/I	CB558N09500			
11	GWH12AGBXB-K6DNA2C	CB543005400	GWH12AGBXB-K6DNA2C/I CB543N05400		OWILLIA OA ORVE KORNIA 40/0	CB558W02600	\/A\/4E
12	GWH12AGBXB-K6DNA4C	CB558002601	GWH12AGBXB-K6DNA4C/I	CB558N02601	GWH12AGBXB-K6DNA4C/O		YAY1F
13	GWH12AGCXB-K6DNA1A	CB385018000	GWH12AGCXB-K6DNA1A/I	CB385N18000	GWH12AGCXB-K6DNA1A/O	CB385W18000	
14		CB558002401		CB558N02401			
15	GWH12AGC-K6DNA4F	AGC-K6DNA4F CB558002402 GWH12AGC-K6D		CB558N02402	GWH12AFC-K6DNA2F/O	CB363W03600	
16		CB558002403		CB558N02403			
17	GWH18AGDXB-K6DNA2D	CB543004701	GWH18AGDXB-K6DNA2D/I	CB543N04701	CMILIAGA CD ICCDNIA 4D/O	CD205W00200	
18	GWH18AGD-K6DNA4D	CB558000901	GWH18AGD-K6DNA4D/I	CB558N00901	GWH18AGD-K6DNA1D/O	CB385W08300	
19		CB558009601		CB558N09600			
20	GWH18AGDXD-K6DNA4E	CB558009602	GWH18AGDXD-K6DNA4E/I	CB558N09602	GWH18AGD-K6DNA1E/O	CB385W09101	YAP1F7 (WiFi)
21		CB558009603		CB558N09603			(******)
22	CWILIDAA CDVE KCDNA OC	CB543004800	CM/LIQAA CDVE KCDNIA 2C/I	CB543N04800			
23	GWH24AGDXE-K6DNA2C CB543004801 GWH24AGDXE-K6DNA2C/I		CB543N04801	GWH24AGD-K6DNA1C/O	CB385W08600		
24	GWH24AGD-K6DNA4C	CB558001001	GWH24AGD-K6DNA4C/I	CB558N01001			
25		CB558009703		CB558N09700			
26	GWH24AGEXF-K6DNA4A	CB558009704	GWH24AGEXF-K6DNA4A/I	CB558N09701	GWH24AFE-K6DNA2I/O	CB363W04101	1
27	CB558009705			CB558N09702	-		

2. Specifications

2.1 Specification Sheet

Model			GWH07AGA-K6DNA1A	
Product Code	Product Code		CB385001101	
Rated Voltage		V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Сарріу	Phases		1	
Power Suppl	y Mode		Outdoor	
Cooling Capa	acity	W	2200	
Heating Capa	acity	W	2400	
Cooling Power	er Input	W	590	
Heating Pow	er Input	W	590	
Cooling Curre	ent Input	Α	2.9	
Heating Curr	ent Input	Α	2.9	
Rated Input		W	1300	
Rated Coolin	g Current	Α	5	
Rated Heatin	g Current	Α	6	
Air Flow Volu	ıme	m³/h	500/470/450/420/310/290/250	
Dehumidifyin	g Volume	L/h	0.6	
EER		W/W	3.73	
COP		W/W	4.07	
SEER			6.6	
HSPF			I	
Application A	ırea	m^2	10-16	
	Model		GWH07AGA-K6DNA1A/I	
	Product Code		CB385N01101	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф93×505	
	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	r	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
	Evaporator Row-fin Gap	mm	2-1.4	
Indoor Unit		mm	509×22.8×266.7	
	Swing Motor Model	111111	MP24AK/MP24BA/MP24HF	
	Swing Motor Power Output	W		
			1.5/1.5/	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/33/29/25/21 Heating: 38/36/33/32/29/25/23	
	Sound Power Level	dB (A)	Cooling: 55/49/46/45/41/37/33 Heating: 55/49/46/45/42/38/36	
	Dimension (WXHXD)	mm	704X260X185	
	Dimension of Carton Box (LXWXH)	mm	748X316X247	
	Dimension of Package (LXWXH)	mm	753X332X258	
	Net Weight	kg	7.5	
	Gross Weight	kg	9	

Technical Information • • • • • • •

	Outdoor Unit Model		GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code		CB385W01100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-N075zC170
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	A	3
	Compressor Power Input	W	633
	Compressor Overload Protector	V V	/
	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
		-0	
	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	950
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.4
	Fan Motor Capacitor	μF	
	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
.	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
i ipc	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

● ● ● ● ■ Technical Information

Model			GWH09AGAXB				
Product Code		``	CB385009900	CB385009901			
Power	Rated Voltage	V~	220-240				
Supply	Rated Frequency	Hz	50				
	Phases		1				
Power Supply			Outdoo				
Cooling Capa	-	W	2500				
Heating Capa	•	W	2800				
Cooling Powe	•	W	680				
Heating Power	•	W	730				
Cooling Curre	ent Input	Α	3.1				
Heating Curre	ent Input	Α	3.2				
Rated Input		W	1500				
Rated Coolin	g Current	Α	6				
Rated Heatin	g Current	Α	7.5				
Air Flow Volu	ime	m³/h	500/470/430/390/	320/270/250			
Dehumidifyin	g Volume	L/h	0.6				
EER		W/W	3.68				
COP		W/W	3.84				
SEER			6.6				
HSPF			1				
Application A	rea	m²	10-16	3			
	Model		GWH09AGAXB-K6DNA1B/I				
	Product Code		CB385N09900	CB385N09901			
	Fan Type		Cross-fl	ow			
	Fan Diameter Length(DXL)	mm	Ф93×50	05			
	Cooling Speed	r/min	1300/1200/1120/105	50/920/800/750			
	Heating Speed	r/min	1300/1200/1120/105	50/950/850/800			
	Fan Motor Power Output	W	20				
	Fan Motor RLA	Α	0.22				
	Fan Motor Capacitor	μF	1				
	Evaporator Form		Aluminum Fin-co	opper Tube			
	Evaporator Pipe Diameter	mm	Ф5				
	Evaporator Row-fin Gap	mm	2-1.4				
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	509×22.8×	266.7			
	Swing Motor Model		MP24AK/MP24BA/MP24HF	MP24AK/MP24BA			
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5			
	Fuse Current	Α	3.15				
	Sound Pressure Level	dB (A)	Cooling: 38/36/34 Heating: 38/36/34	/32/28/25/21			
	Sound Power Level	dB (A)	Cooling: 55/48/46/44/40/37/33 Heating: 55/48/46/44/41/37/35				
	Dimension (WXHXD)	mm	704X260X				
	Dimension of Carton Box (LXWXH)	mm	748X316	X247			
	Dimension of Package (LXWXH)	mm	753X332)	X258			
	Net Weight	kg	7.5				
	Gross Weight	kg	9				

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	Α	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	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	Α	0.4
Unit	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		
	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
ripe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model			GWH09AGBXB-K6DNA1A	
Product Code	е		CB385017100	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Сирріу	Phases		1	
Power Suppl	y Mode		Outdoor	
Cooling Capa	acity	W	2700	
Heating Cap	acity	W	2800	
Cooling Pow	er Input	W	725	
Heating Pow	er Input	W	685	
Cooling Curr	ent Input	А	3.45	
Heating Curr	ent Input	А	3.19	
Rated Input		W	1500	
Rated Coolin	ng Current	А	6	
Rated Heatin	ng Current	А	7.5	
Air Flow Volu	ume	m³/h	550/520/480/400/340/310/280	
Dehumidifyin	ng Volume	L/h	0.8	
EER		W/W	3.72	
COP		W/W	4.09	
SEER			6.8	
HSPF			1	
Application A	Area	m ²	10-16	
111	Model		GWH09AGBXB-K6DNA1A/I	
	Product Code		CB385N17100	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф93×580	
	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	А	0.22	
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
	Evaporator Row-fin Gap	mm	2-1.4	
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7	
	Swing Motor Model		MP24BA/MP24AK/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/1.5	
	Fuse Current	А	3.15	
			Cooling: 40/37/35/33/29/26/21	
	Sound Pressure Level	dB (A)	Heating: 40/37/35/33/30/26/24	
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/41/37/34 Heating: 55/49/47/45/42/38/35	
		mm	779X260X185	
	Dimension (WXHXD)	mm		
	Dimension (WXHXD) Dimension of Carton Box (LXWXH)	mm	823X316X247	
	·			
	Dimension of Carton Box (LXWXH)	mm	823X316X247	

	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.	А	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	Fan Motor RLA	Α	0.4
Unit	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow 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)	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
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.	

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Model			GWH09AGCXB-K6DNA4F	
Product Code	е		CB558009801/CB558009802/CB558009803	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Сирріу	Phases		1	
Power Suppl	y Mode		Outdoor	
Cooling Capa	acity	W	2700	
Heating Capa	acity	W	3000	
Cooling Pow	er Input	W	695	
Heating Pow	er Input	W	700	
Cooling Curre	ent Input	А	3.1	
Heating Curr	ent Input	Α	3.2	
Rated Input		W	1400	
Rated Coolin	g Current	Α	6	
Rated Heatin	ng Current	А	6.2	
Air Flow Volu	ıme	m³/h	610/570/540/470/440/420/390	
Dehumidifyin	ig Volume	L/h	0.8	
EER		W/W	3.89	
СОР		W/W	4.29	
SEER			7.5	
HSPF			I	
Application A	rea	m ²	12-18	
	Model		GWH09AGCXB-K6DNA4F/I	
	Product Code		CB558N09800/CB558N09802/CB558N09803	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф98×633.5	
	Cooling Speed	r/min	1200/1100/1050/950/900/850/750	
	Heating Speed	r/min	1150/1100/1050/1000/950/900/800	
	Fan Motor Power Output	W	20	
	Fan Motor RLA	Α	0.31	
	Fan Motor Capacitor	μF	1.5	
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
	Evaporator Row-fin Gap	mm	2-1.4	
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8	
	Swing Motor Model		MP24BA/MP24AK/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 38/36/34/31/29/27/25 Heating: 38/37/35/34/32/29/28	
	Sound Power Level	dB (A)	Cooling: 54/48/46/43/42/39/37 Heating: 56/49/47/46/44/41/40	
	Dimension (WXHXD)	mm	825X293X196	
	Dimension of Carton Box (LXWXH)	mm	870X349X257	
	Dimension of Package (LXWXH)	mm	875X365X268	
	Net Weight	kg	9.5	
			11.5	

Technical Information • • • • • • •

	Outdoor Unit Model		GWH09AFC-K6DNA2F/O
	Outdoor Unit Product Code		CB363W02901
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	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
	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	900
	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	Ф400
	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)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant		R32
	Refrigerant Charge	kg	0.53
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Connection 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			GWH12AGBXB-K6DNA1A GWH12AGBXB-K6DNA4A	GWH12AGBXB-K6DNA1A
Product Code			CB385017900 CB558009500	CB385017901
Rated Voltage		V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases		1	
Power Supply	y Mode		Outo	loor
Cooling Capa	acity	W	320	00
Heating Capa	acity	W	340	00
Cooling Powe	er Input	W	99	1
Heating Powe	er Input	W	91	6
Cooling Curre	ent Input	Α	4.	4
Heating Curre	ent Input	Α	4	
Rated Input		W	150	00
Rated Cooling	g Current	Α	6	
Rated Heatin	g Current	Α	7.	5
Air Flow Volu	me	m³/h	590/520/480/40	0/350/320/280
Dehumidifyin	g Volume	L/h	1.	4
EER		W/W	3.2	23
COP		W/W	3.7	71
SEER			6.	1
HSPF			1	
Application A	rea	m ²	15-22	
	Model		GWH12AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA4A/I	GWH12AGBXB-K6DNA1A/I
	Product Code		CB385N17900 CB558N09500	CB385N17901
	Fan Type		Cross	-flow
	Fan Diameter Length(DXL)	mm	Ф93>	4580
	Cooling Speed	r/min	1350/1200/1120/1	050 /950/850/750
	Heating Speed	r/min	1350/1200/1120/1	050/990/920/850
	Fan Motor Power Output	W	20	0
	Fan Motor RLA	Α	0.2	22
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin-	-copper Tube
	Evaporator Pipe Diameter	mm	Ф	5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1	.4
	Evaporator Coil Length (LXDXW)	mm	584×22.8	3×266.7
	Swing Motor Model		MP24AK/MP24BA/MP24HF	MP24AK/MP24BA
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	Α	3.1	
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 41/37/35/33/31/28/25	
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/42/38/36 Heating: 53/49/47/45/43/40/37	
	Dimension (WXHXD)	mm	779X26	0X185
	Dimension of Carton Box (LXWXH)	mm	823X31	6X247
	Dimension of Package (LXWXH)	mm	828X33	2X258
	Net Weight	kg	8	
	Gross Weight	kg	9.	5

	Outdoor Unit Model		GWH12AGBXB-K6DNA1A/O
	Outdoor Unit Product Code		CB385017900
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-N088zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	
	Compressor RLA	Α	3.6
	Compressor Power Input	W	758
	Compressor Overload Protector		
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	28
Outdoor	Fan Motor RLA	Α	0.4
Unit	Fan Motor Capacitor	μF	2.5
	Outdoor Unit Air Flow Volume	m³/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)	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	20
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	20
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12AGBXB-K6DNA4C	GWH12AGBXB-K6DNA2C
Product Code	9		CB558002601	CB543005400
	Rated Voltage	V~	220-	240
Power Supply	Rated Frequency	Hz	5	0
Оирріу	Phases		1	
Power Supply	y Mode		Outo	door
Cooling Capa	acity	W	35	00
Heating Capa	acity	W	35	00
Cooling Powe	er Input	W	10	83
Heating Powe	er Input	W	91	8
Cooling Curre	ent Input	Α	4.9	97
Heating Curre	ent Input	Α	4.2	22
Rated Input		W	15	50
Rated Coolin	g Current	Α	6.2	21
Rated Heatin	g Current	Α	6.8	38
Air Flow Volu	ime	m³/h	590/520/480/40	00/350/320/280
Dehumidifyin	g Volume	L/h	1.	4
EER		W/W	3.2	23
COP		W/W	3.8	31
SEER			1	1
HSPF				
Application A	rea	m ²	15-	-22
	Model		GWH12AGBXB-K6DNA4C/I	GWH12AGBXB-K6DNA2C/I
	Product Code		CB558N02601	CB543N05400
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф93>	< 580
	Cooling Speed	r/min	1350/1200/1120/1	050/950/850/750
	Heating Speed	r/min	1350/1200/1120/1	050/990/920/850
	Fan Motor Power Output	W	2	0
	Fan Motor RLA	Α	0.2	22
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin	-copper Tube
	Evaporator Pipe Diameter	mm	Φ	5
	Evaporator Row-fin Gap	mm	2-1	1.4
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	584×22.	8×266.7
	Swing Motor Model		MP24HF/MP24BA/MP24AK	MP24BA/MP24AK
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	Α	3.	15
	Sound Pressure Level	dB (A)	Cooling: 41/37/ Heating: 43/39/	
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/42/38/36 Heating: 53/49/47/44/43/40/38	
	Dimension (WXHXD)	mm	779X26	60X185
	Dimension of Carton Box (LXWXH)	mm	823X31	6X247
	Dimension of Package (LXWXH)	mm	828X33	32X258
	Net Weight	kg	8.	5
	Gross Weight	kg	10	

	Outdoor Unit Model		GWH12AGBXB-K6DNA4C/O
	Outdoor Unit Product Code		CB558W02600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	1
	Compressor RLA	Α	4.4
	Compressor Power Input	W	1
	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	677×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	28
Outdoor	Fan Motor RLA	А	0.35
Unit	Fan Motor Capacitor	μF	2.5
	Outdoor Unit Air Flow Volume	m ³ /h	1950
	Fan Type		Axial-flow Axial
	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)	52
	Sound Power Level	dB (A)	64
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25.5
	Gross Weight	kg	28
	Refrigerant		R32
	Refrigerant Charge	kg	0.39
	Connection Pipe 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			GWH12AGCXB-K6DNA1A	
Product Code	е		CB385018000	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Ouppiy	Phases		1	
Power Suppl	y Mode		Outdoor	
Cooling Capa	acity	W	3200	
Heating Capa	acity	W	3400	
Cooling Pow	er Input	W	933	
Heating Pow	er Input	W	872	
Cooling Curr	ent Input	Α	4.14	
Heating Curr	ent Input	Α	3.87	
Rated Input		W	1500	
Rated Coolin	g Current	Α	6.5	
Rated Heatin	g Current	Α	7.5	
Air Flow Volu	ime	m³/h	680/620/560/490/450/420/390	
Dehumidifyin	g Volume	L/h	1.4	
EER		W/W	3.43	
COP		W/W	3.9	
SEER			6.5	
HSPF			I	
Application A	ırea	m ²	15-22	
	Model		GWH12AGCXB-K6DNA1A/I	
	Product Code		CB385N18000	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф98×630	
	Cooling Speed	r/min	1300/1150/1100/1000/950/850/750	
	Heating Speed	r/min	1250/1100/1050/1000/950/850/800	
	Fan Motor Power Output	W	20	
	Fan Motor RLA	Α	0.3	
	Fan Motor Capacitor	μF	1.5	
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
	Evaporator Row-fin Gap	mm	2-1.4	
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8	
	Swing Motor Model		MP24BA/MP24AK/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/31/27/22 Heating: 41/36/34/32/30/27/25	
	Sound Power Level	dB (A)	Cooling: 57/50/48/46/43/39/36 Heating: 55/49/47/45/43/40/37	
	Dimension (WXHXD)	mm	825X293X196	
	Dimension of Carton Box (LXWXH)	mm	870X349X257	
	Dimension of Package (LXWXH)	mm	875X365X268	
	Net Weight	kg	10	
	Gross Weight	kg	12	

	Outdoor Unit Model		GWH12AGCXB-K6DNA1A/O
	Outdoor Unit Product Code		CB385W18000
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-N088zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	1
	Compressor RLA	Α	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	 1-1.4
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	28
Outdoor	Fan Motor RLA	Α	0.4
Unit	Fan Motor Capacitor	μF	2.5
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.57
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	20
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
1 ibe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12AGC-K6DNA4F
Product Code	duct Code CB558002401/CB558002402/CB558002403		CB558002401/CB558002402/CB558002403
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Оирріу	Phases		1
Power Suppl	y Mode		Outdoor
Cooling Capa	acity	W	3510
Heating Cap	acity	W	3810
Cooling Pow	er Input	W	962
Heating Pow	er Input	W	953
Cooling Curr	ent Input	Α	4.3
Heating Curr	ent Input	Α	4.6
Rated Input		W	1550
Rated Coolin	ng Current	Α	6.2
Rated Heatin	ng Current	Α	6.9
Air Flow Volu	ume	m³/h	680/620/560/490/450/420/390
Dehumidifyin	ng Volume	L/h	1.4
EER		W/W	3.65
COP		W/W	4.00
SEER			7.1
HSPF			1
Application A	Area	m ²	16-24
	Model		GWH12AGC-K6DNA4F/I
	Product Code		CB558N02401/CB558N02402/CB558N02403
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98×630
	Cooling Speed	r/min	1300/1150/1100/1000/950/850/750
	Heating Speed	r/min	1250/1100/1050/1000/950/850/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	Α	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	·	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
	Evaporator Row-fin Gap	mm	2-1.4
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/32/30/27/24
	Journa Fressule Level	ub (A)	Heating: 40/36/34/32/30/27/24
	Sound Power Level	dB (A)	Cooling: 56/49/47/44/42/39/36 Heating: 51/46/44/42/40/37/34
	D: : (10(1)(D)	mm	825X293X196
	Dimension (WXHXD)		
	Dimension (WXHXD) Dimension of Carton Box (LXWXH)	mm	870X349X257
	·	mm mm	870X349X257 875X365X268
	Dimension of Carton Box (LXWXH)		

	Outdoor Unit Model		GWH12AFC-K6DNA2F/O
	Outdoor Unit Product Code		CB363W03600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	1
	Compressor RLA	Α	4.4
	Compressor Power Input	W	1
	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
	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	1
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	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)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant		R32
	Refrigerant Charge	kg	0.57
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Connection 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			GWH18AGD-K6DNA4D GWH18AGDXB-K6DNA		
Product Code	roduct Code		CB558000901	CB543004701	
	Rated Voltage	V~	220-240		
Power Supply	Rated Frequency	Hz	50)	
Сирріу	Phases		1		
Power Suppl	y Mode		Outdoor		
Cooling Capa	acity	W	460	00	
Heating Capa	acity	W	520	00	
Cooling Powe	er Input	W	138	55	
Heating Pow	er Input	W	134	40	
Cooling Curre	ent Input	Α	5.	9	
Heating Curr	ent Input	Α	5.	8	
Rated Input		W	190	00	
Rated Coolin	g Current	А	8		
Rated Heatin	g Current	А	9		
Air Flow Volu	ıme	m³/h	910/850/780/74	0/700/650/610	
Dehumidifyin	g Volume	L/h	1.	8	
EER		W/W	3.3	39	
COP		W/W	3.8	38	
SEER			6.4		
HSPF			1		
Application A	rea	m²	21-	31	
	Model		GWH18AGD-K6DNA4D/I	GWH18AGDXB-K6DNA2D/I	
	Product Code		CB558N00901	CB543N04701	
	Fan Type		Cross	-flow	
	Fan Diameter Length(DXL)	mm	Ф106	×739	
	Cooling Speed	r/min	1230/1050/980/9	00/850/800/750	
	Heating Speed	r/min	1200/1050/980/9	00/850/800/750	
	Fan Motor Power Output	W	38	5	
	Fan Motor RLA	Α	0.4	15	
	Fan Motor Capacitor	μF	2.	5	
	Evaporator Form		Aluminum Fin-	-copper Tube	
	Evaporator Pipe Diameter	mm	Ф	5	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1	.3	
mador Onic	Evaporator Coil Length (LXDXW)	mm	745×22.8	3×342.9	
	Swing Motor Model		MP24AK/MP24BA/MP24HF	MP24AK/MP24BA	
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5	
	Fuse Current	Α	3.1	5A	
	Sound Pressure Level	dB (A)	Cooling: 43/39/3 Heating: 44/40/3	37/34/32/30/29	
	Sound Power Level	dB (A)	Cooling: 56/52/9 Heating: 57/53/9		
	Dimension (WXHXD)	mm	982X31	1X221	
	Dimension of Carton Box (LXWXH)	mm	1039X3	77X287	
	Dimension of Package (LXWXH)	mm	1044X38	35X297	
	Net Weight	kg	13	.5	
	Gross Weight	kg	16		

	Outdoor Unit Model		GWH18AGD-K6DNA1D/O
	Outdoor Unit Product Code		CB385W08300
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	19
	Compressor RLA	Α	4.4
	Compressor Power Input	W	952
	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	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	900
	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	111 711	Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method	111111	Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MD	
	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	732X550X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X605
	Net Weight	kg	26.5
	Gross Weight	kg	29
	Refrigerant		R32
	Refrigerant Charge	kg	0.75
	Connection Pipe 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
1 ipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model			GWH18AGDXD-K6DNA4E	
Product Code	е		CB558009601/CB558009602/CB558009603	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Оирріу	Phases		1	
Power Suppl	ly Mode		Outdoor	
Cooling Capa	acity	W	5300	
Heating Cap	acity	W	5600	
Cooling Pow	er Input	W	1501	
Heating Pow	er Input	W	1393	
Cooling Curr	ent Input	Α	7.2	
Heating Curr	ent Input	Α	6.3	
Rated Input		W	2350	
Rated Coolin	ng Current	Α	10	
Rated Heatin	ng Current	Α	10.5	
Air Flow Volu	ume	m³/h	1000/850/760/650/580/520/450	
Dehumidifyin	ng Volume	L/h	1.9	
EER		W/W	3.53	
COP		W/W	4.02	
SEER			7.3	
HSPF			1	
Application A	Area	m ²	23-34	
	Model		GWH18AGDXD-K6DNA4E/I	
	Product Code		CB558N09600/CB558N09602/CB558N09603	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф106×739	
	Cooling Speed	r/min	1300/1150/1030/960/800/700/650/500	
	Heating Speed	r/min	1300/1150/1040/950/900/880/800	
	Fan Motor Power Output	W	45	
	Fan Motor RLA	Α	0.25	
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
	Evaporator Row-fin Gap	mm	2-1.3	
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9	
	Swing Motor Model		MP24AK/MP24BA/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/1.5	
	-			
	Fuse Current	Α	3.15	
	Fuse Current Sound Pressure Level	A dB (A)	Cooling: 45/42/41/37/34/29/26/23	
			Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32 Cooling: 60/55/54/50/47/42/39/36	
	Sound Pressure Level	dB (A)	Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32	
	Sound Pressure Level Sound Power Level	dB (A)	Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32 Cooling: 60/55/54/50/47/42/39/36 Heating: 60/57/55/50/49/48/45	
	Sound Pressure Level Sound Power Level Dimension (WXHXD)	dB (A) dB (A) mm	Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32 Cooling: 60/55/54/50/47/42/39/36 Heating: 60/57/55/50/49/48/45 982X311X221	
	Sound Pressure Level Sound Power Level Dimension (WXHXD) Dimension of Carton Box (LXWXH)	dB (A) dB (A) mm mm	Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32 Cooling: 60/55/54/50/47/42/39/36 Heating: 60/57/55/50/49/48/45 982X311X221 1039X377X287	

	Outdoor Unit Model		GWH18AGD-K6DNA1E/O
	Outdoor Unit Product Code		CB385W09101
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A120zH170A
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	18
	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
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	895×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	Α	0.4
Unit	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m³/h	2200
	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)	56
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	802X555X350
	Dimension of Carton Box (LXWXH)	mm	869X395X594
	Dimension of Package(LXWXH)	mm	872X398X620
	Net Weight	kg	30.5
	Gross Weight	kg	33.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.85
	Connection Pipe 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	1/2
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model			GWH24AGDXE-K6DNA2C GWH24AGD-K6DNA4C	GWH24AGDXE-K6DNA2C
Product Code			CB543004800 CB558001001	CB543004801
Rated Voltage		V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Оирріу	Phases		1	
Power Supply	y Mode		Outd	oor
Cooling Capa	acity	W	620	00
Heating Capa	acity	W	650	00
Cooling Powe	er Input	W	178	36
Heating Powe	er Input	W	164	15
Cooling Curre	ent Input	Α	7.0	6
Heating Curre	ent Input	Α	7.0	6
Rated Input		W	220	00
Rated Coolin	g Current	Α	9.3	3
Rated Heatin	g Current	Α	9.	7
Air Flow Volu	me	m³/h	1050/950/800/750/	/700/650/600/550
Dehumidifyin	g Volume	L/h	1.8	8
EER		W/W	3.4	7
COP		W/W	3.9	95
SEER			6.8	
HSPF			1	
Application Area		m²	23-34	
I	Model		GWH24AGDXE-K6DNA2C/I GWH24AGD-K6DNA4C/I	GWH24AGDXE-K6DNA2C/I
	Product Code		CB543N04800 CB558N01001	CB543N04801
	Fan Type		Cross	-flow
	Fan Diameter Length(DXL)	mm	Ф106	×739
	Cooling Speed	r/min	1350/1200/1100/1	000/900/850/800
	Heating Speed	r/min	1350/1200/1100/1	000/900/850/800
	Fan Motor Power Output	W	50)
	Fan Motor RLA	Α	0.2	24
	Fan Motor Capacitor	μF	3	
	Evaporator Form		Aluminum Fin-	-copper Tube
	Evaporator Pipe Diameter	mm	Φ	7
Indoor Unit	Evaporator Row-fin Gap	mm	2-1	.4
	Evaporator Coil Length (LXDXW)	mm	745×22.8	3×342.9
	Swing Motor Model		MP24BA MP24AK MP24HF	MP24BA MP24AK
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5
	Fuse Current	Α	3.1	
	Sound Pressure Level	dB (A)	Cooling: 46/42/40/37/35/32/30 Heating: 48/44/40/37/34/32/30	
	Sound Power Level	dB (A)	Cooling: 63/59/57/54/53/49/47 Heating: 63/59/55/52/49/47/45	
	Dimension (WXHXD)	mm	982X31	1X221
	Dimension of Carton Box (LXWXH)	mm	1039X37	77X287
	Dimension of Package (LXWXH)	mm	1044X38	35X297
	Net Weight	kg	14	1
	Gross Weight	kg	16.	.5

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

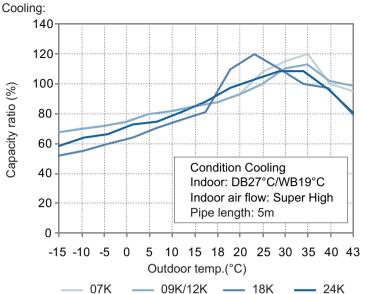
	Outdoor Unit Model		GWH24AGD-K6DNA1C/O					
	Outdoor Unit Product Code		CB385W08600					
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.					
	Compressor Model		FTz-SM151AXBD					
	Compressor Oil		FW68DA					
	Compressor Type		Rotary					
	Compressor LRA.	Α	1					
	Compressor RLA	Α	6.06					
	Compressor Power Input	W	1330					
	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	Ф7.94					
	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	Α	0.7					
Unit	Fan Motor Capacitor	μF						
	Outdoor Unit Air Flow Volume	m³/h	2800					
	Fan Type		Axial-flow					
	Fan Diameter	mm	Ф445					
	Defrosting Method		Automatic Defrosting					
	Climate Type		T1					
	Isolation		I					
	Moisture Protection		IPX4					
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3					
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5					
	Sound Pressure Level	dB (A)	57					
	Sound Power Level	dB (A)	65					
	Dimension(WXHXD)	mm	873X555X376					
	Dimension of Carton Box (LXWXH)	mm	948X428X591					
	Dimension of Package(LXWXH)	mm	951X431X620					
	Net Weight	kg	36.5					
	Gross Weight	kg	39.5					
	Refrigerant		R32					
	Refrigerant Charge	kg	1.18					
	Connection Pipe Length	m	5					
	Connection Pipe Gas Additional Charge	g/m	16					
Connection	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.							

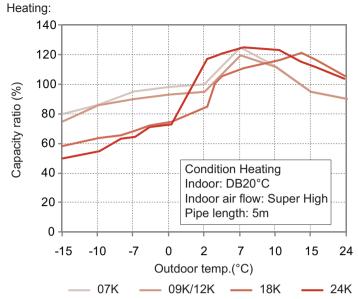
Model			GWH24AGEXF-K6DNA4A		
Product Code			CB558009703/CB558009704/CB558009705		
Power Supply	Rated Voltage	V~	220-240		
	Rated Frequency	Hz	50		
Сирріу	Phases		1		
Power Suppl	ly Mode		Outdoor		
Cooling Capa	acity	W	7100		
Heating Capa	acity	W	7800		
Cooling Pow	er Input	W	2030		
Heating Pow	ver Input	W	2000		
Cooling Curr	ent Input	Α	9		
Heating Curr	rent Input	Α	9.3		
Rated Input		W	3000		
Rated Coolin	ng Current	Α	13		
Rated Heatin	-	Α	13.5		
Air Flow Volu	-	m³/h	1250/1100/1000/950/900/850/800/600		
Dehumidifyin	na Volume	L/h	2.4		
EER	3 - 1 - 1	W/W	3.5		
COP		W/W	3.9		
SEER			7		
HSPF			0		
Application Area		m ²	27-42		
rppiloation	Model	***	GWH24AGEXF-K6DNA4A/I		
	Product Code		CB558N09700/CB558N09701/CB558N09702		
	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	A	0.24		
	Fan Motor Capacitor	μF	/		
	Evaporator Form	μι	Aluminum Fin-copper Tube		
		mm	Φ7		
	Evaporator Pipe Diameter	mm			
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4		
	Evaporator Coil Length (LXDXW)	mm	845×25.4×381		
	Swing Motor Model	14/	MP24HF/MP24HF/MP24AK		
	Swing Motor Power Output	W	1.5/1.5/		
	Fuse Current	A	3.15		
			Cooling: 49/44/41/40/39/36/33/37		
	Sound Pressure Level	dB (A)	Cooling: 48/44/41/40/38/36/33/27 Heating: 50/47/43/41/40/36/35		
	Sound Pressure Level Sound Power Level	dB (A)			
			Heating: 50/47/43/41/40/36/35 Cooling: 64/59/56/55/53/51/48/42		
	Sound Power Level	dB (A)	Heating: 50/47/43/41/40/36/35 Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50		
	Sound Power Level Dimension (WXHXD)	dB (A)	Heating: 50/47/43/41/40/36/35 Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50 1075X333X246		
	Sound Power Level Dimension (WXHXD) Dimension of Carton Box (LXWXH)	dB (A)	Heating: 50/47/43/41/40/36/35 Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50 1075X333X246 1128X406X323		

	Outdoor Unit Model		GWH24AFE-K6DNA2I/O						
	Outdoor Unit Product Code		CB363W04101						
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO,LTD.						
	Compressor Model		QXFS-M180zX170						
	Compressor Oil		FW68DA or equivalent						
	Compressor Type		Twin Rotary						
	Compressor LRA.	Α	35						
	Compressor RLA	Α	3.5						
	Compressor Power Input	W	1610						
	Compressor Overload Protector		KSD115°C HPC115/95U1						
	Throttling Method		Electron expansion valve						
	Set Temperature Range	°C	16~30						
	Cooling Operation Ambient Temperature Range	°C	-15~50						
	Heating Operation Ambient Temperature Range	°C	-25~30						
	Condenser Form		Aluminum Fin-copper Tube						
	Condenser Pipe Diameter	mm	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	Α	0.65						
Unit	Fan Motor Capacitor	μF	1						
	Outdoor Unit Air Flow Volume	m ³ /h	3600						
	Fan Type		Axial-flow						
	Fan Diameter	mm	Ф520						
	Defrosting Method		Automatic Defrosting						
	Climate Type		T1						
	Isolation		I						
	Moisture Protection		IPX4						
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3						
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5						
	Sound Pressure Level	dB (A)	59						
	Sound Power Level	dB (A)	70						
	Dimension(WXHXD)	mm	958X660X402						
	Dimension of Carton Box (LXWXH)	mm	1029X453X715						
	Dimension of Package(LXWXH)	mm	1032X456X737						
	Net Weight	kg	41.5						
	Gross Weight	kg	46						
	Refrigerant		R32						
	Refrigerant Charge	kg	1.5						
	Connection Pipe Length	m	5						
	Connection Pipe Gas Additional Charge	g/m	40						
Connection	Outer Diameter Liquid Pipe	inch	1/4						
Connection Pipe	Outer Diameter Gas Pipe	inch	5/8						
	Max Distance Height	m	10						
	Max Distance Length	m	25						
	Note: The connection pipe applies metric diameter.								

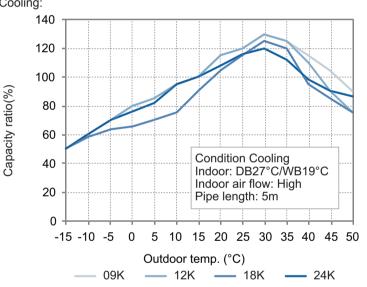
2.2 Capacity Variation Ratio According to Temperature

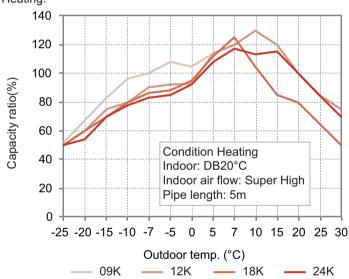
The models for 09K ~ 24K with heating operation ambient temperature range of -15°C~24°C





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





2.3 Cooling and Heating Data Sheet in Rated Frequency

Coolina:

· · · · · · · · · · · · · · · · ·								
Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit		pe temperature of changer	Fan speed of		
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)	indoor unit	outdoor unit	
27/19	35/24	07K / 09K	0.8 to 1.1	12 ~ 15	68 ~ 38	Super High	High	
27/19	35/24	12K	0.9 to 1.1	12 ~ 14	75 ~ 37	Super High	High	
27/19	35/24	18K	0.9 to 1.1	12 ~ 14	75 ~ 37	Super High	High	
27/19	35/24	24K	0.9 to 1.1	12 ~ 14	75 ~ 37	Super High	High	

Heating:

Rated heating condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit		pe temperature of changer	Fan speed of	
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)	indoor unit	outdoor unit
20/-	7/6	07K / 09K	2.8 to 3.2	63 ~ 35	2 ~ 5	Super High	High
20/-	7/6	12K	2.2 to 2.4	70 ~ 35	2 ~ 4	Super High	High
20/-	7/6	18K	2.2 to 2.4	70 ~ 35	1 ~ 5	Super High	High
20/-	7/6	24K	2.2 to 2.4	70 ~ 35	2 ~ 4	Super High	High

Instruction:

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T1: Inlet and outlet pipe temperature of evaporator

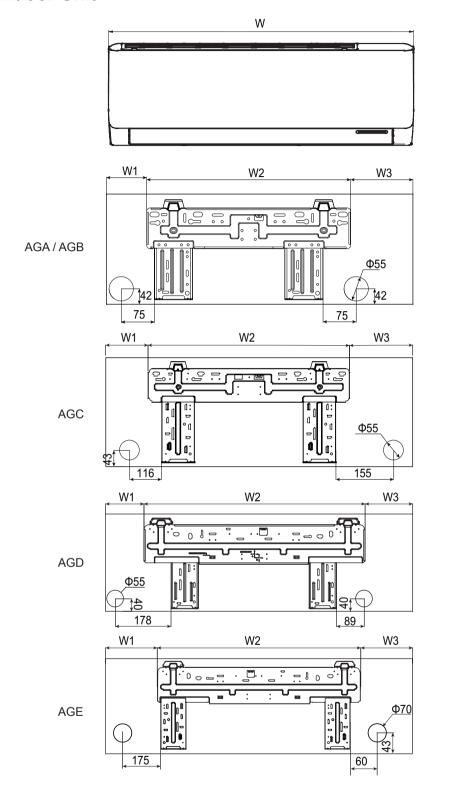
T2: Inlet and outlet pipe temperature of condenser

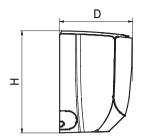
P: Pressure at the side of big valve

Connection pipe length: 5 m.

3. Outline Dimension Diagram

3.1 Indoor Unit





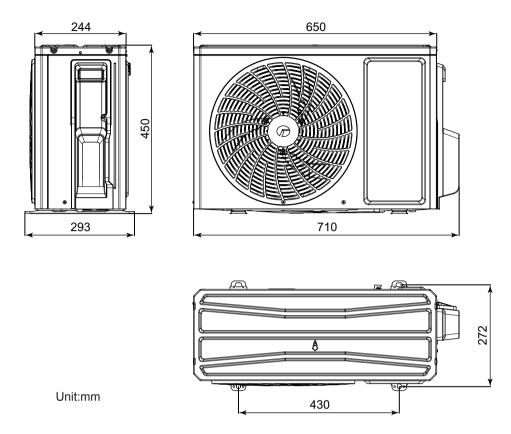
Unit:mm

Model	W	Н	D	W1	W2	W3
AGA	704	260	185	93	462	149
AGB	779	260	185	133.5	462	183.5
AGC	825	293	196	113	542	170
AGD	982	311	221	122.5	707.5	152
AGE	1075	333	246	183.5	707.5	184

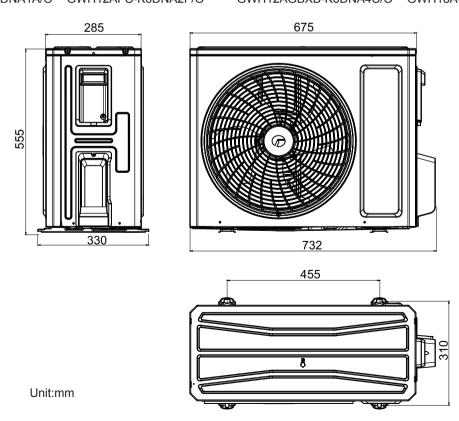
Technical Information

3.2 Outdoor Unit

GWH07AGA-K6DNA1A/O

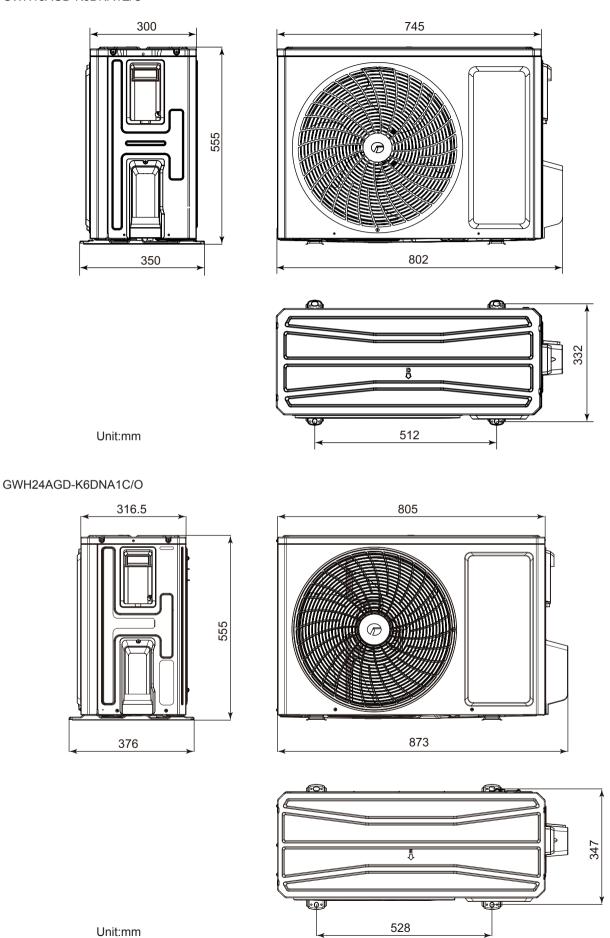


GWH09AGBXB-K6DNA1A/O GWH09AGAXB-K6DNA1B/O GWH09AFC-K6DNA2F/O GWH12AGBXB-K6DNA1A/O GWH12AGCXB-K6DNA1A/O GWH12AFC-K6DNA2F/O GWH12AGBXB-K6DNA4C/O GWH18AGD-K6DNA1D/O

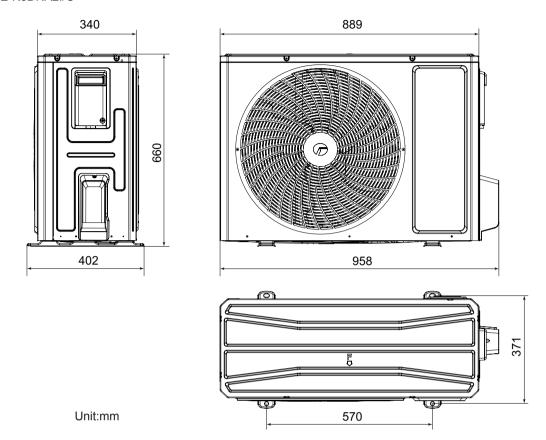


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GWH18AGD-K6DNA1E/O

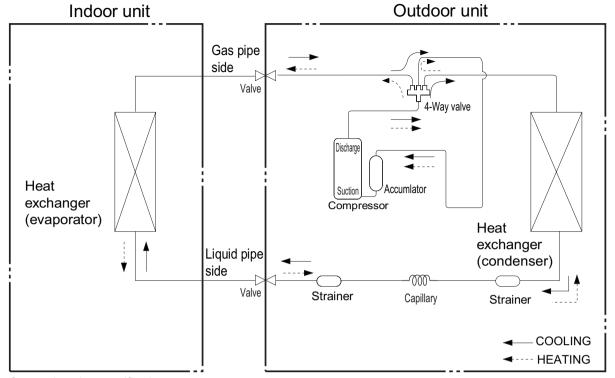


GWH24AFE-K6DNA2I/O



4. Refrigerant System Diagram

The models of the capillary throttling method are as follows:



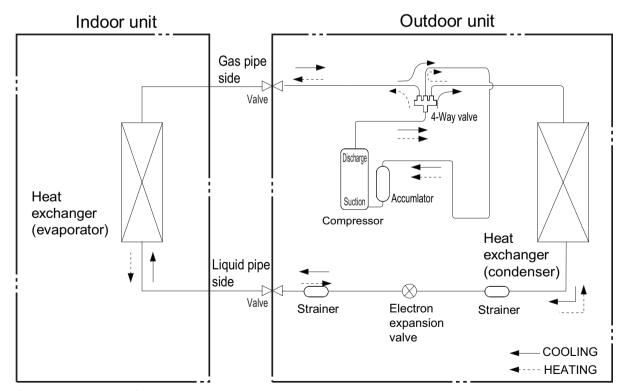
Connection pipe specification:

Liquid pipe: 1/4"

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

1/2" for 24K

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



Connection pipe specification:

Liquid pipe: 1/4"

Gas pipe: 3/8" for 12K

1/2" for 18K 5/8" for 24K

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5. Electrical Part

5.1 Wiring Diagram

Instruction

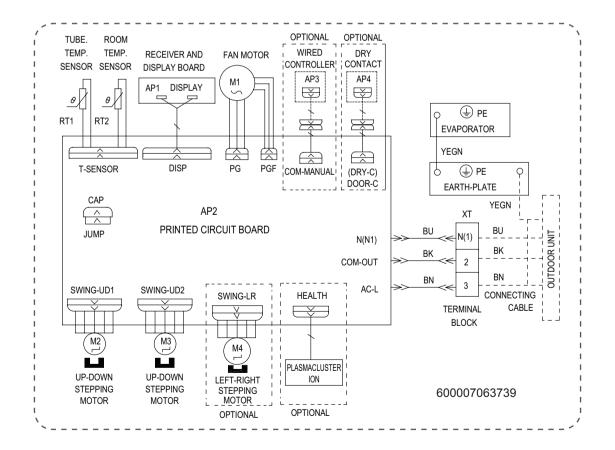
				_				
Symbol	Symbol Color	Symbol	Symbol Color		Symbol	Name		
WH	White	GN	Green	_	CAP	Jumper cap		
YE	Yellow	BN	Brown		COMP	Compressor		
RD	Red	BU	Blue			Grounding wire		
YEGN	Yellow/Green	ВК	Black		/	1		
VT	Violet	OG	Orange		/	1		
				_				

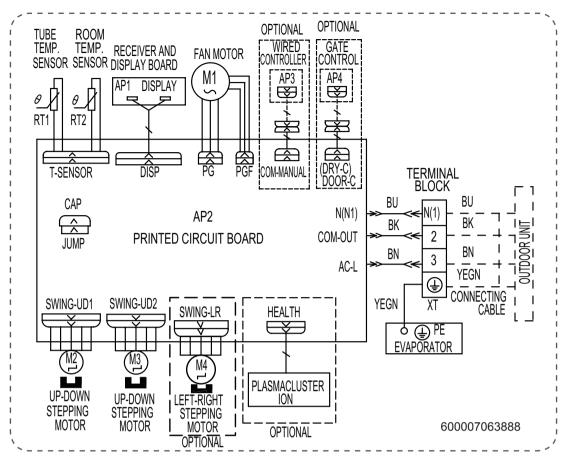
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

• Indoor Unit

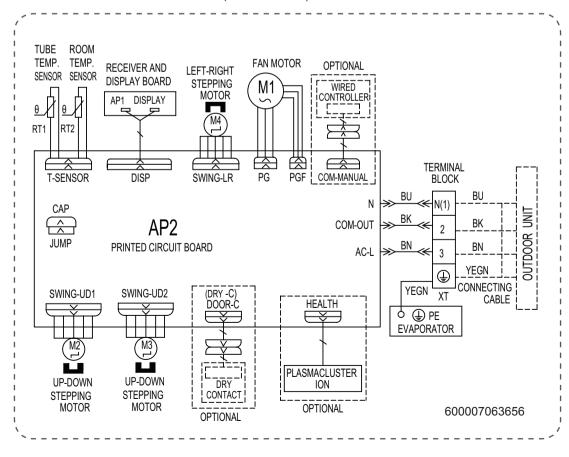
GWH07AGA-K6DNA1A/I GWH09AGAXB-K6DNA1B/I GWH12AGBXB-K6DNA2C/I GWH12AGBXB-K6DNA4C/I GWH09AGBXB-K6DNA1A/I

GWH12AGBXB-K6DNA1A/I



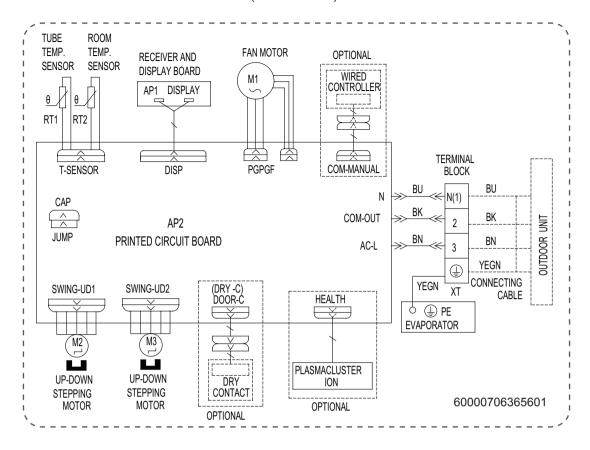


GWH18AGD-K6DNA4D/I GWH24AGDXE-K6DNA2C/I(CB543N04800) GWH24AGD-K6DNA4C/I

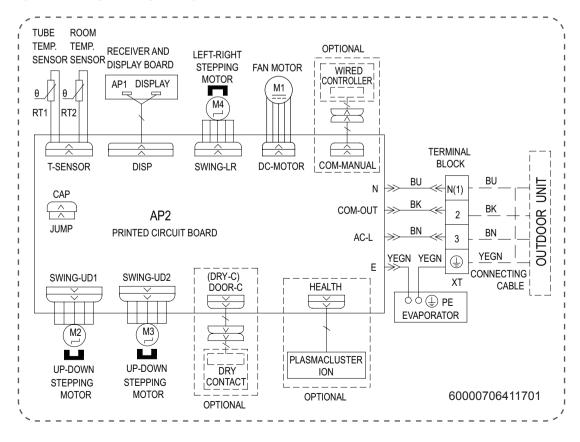


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GWH18AGDXB-K6DNA2D/I GWH24AGDXE-K6DNA2C/I(CB543N04801)

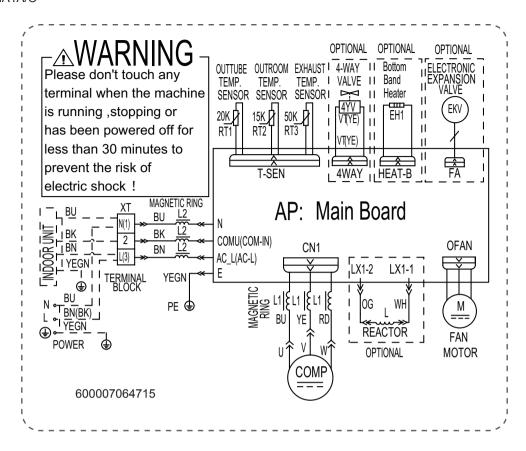


GWH18AGDXD-K6DNA4E/I GWH24AGEXF-K6DNA4A/I

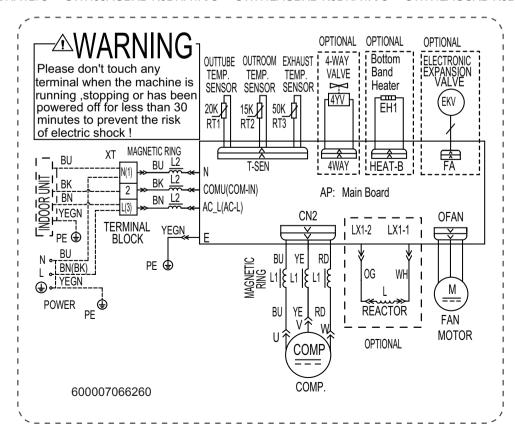


Outdoor Unit

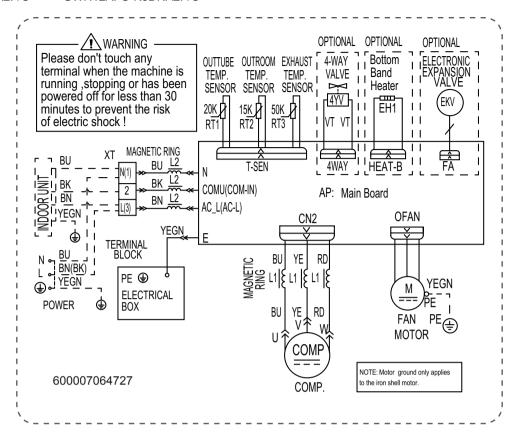
GWH07AGA-K6DNA1A/O



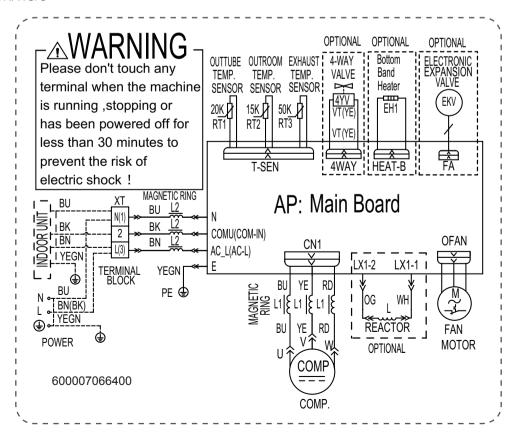
GWH09AGAXB-K6DNA1B/O GWH09AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA1A/O GWH12AGCXB-K6DNA1A/O



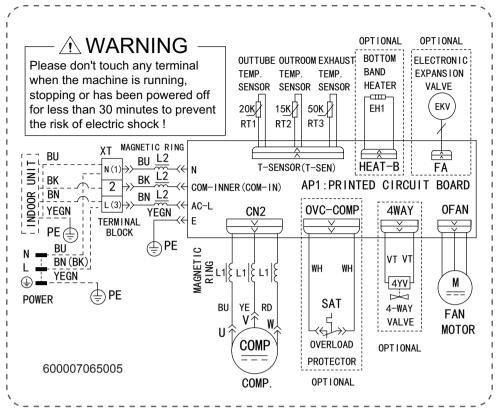
36 Technical Information



GWH12AGBXB-K6DNA4C/O



Technical Information

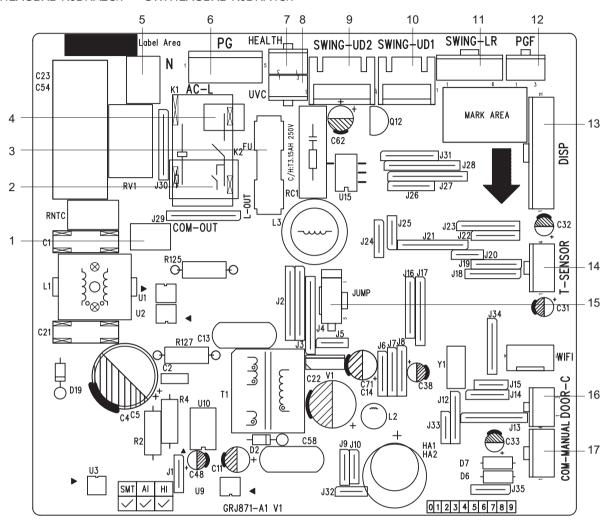


These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

5.2 PCB Printed Diagram

Indoor Unit

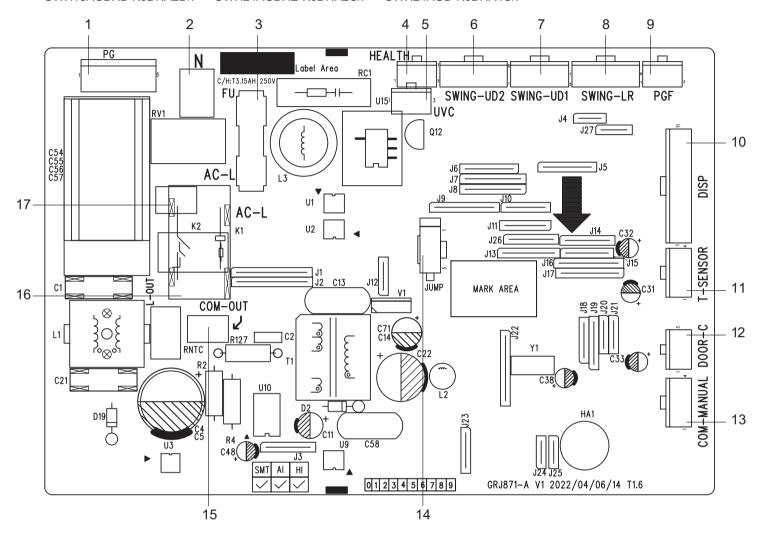
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No.	Name	No.	Name
1	Communication wire terminal	10	Up & down swing terminal 1
2	Live wire terminal (outdoor unit)	11	Left & right swing terminal
3	Fuse	12	PG feedback terminal
-	Live wire terminal		Display board terminal
5	Neutral wire terminal	14	Temperature sensor tube terminal
6	PG motor terminal	15	Jumper
7	Health function terminal	16	Gate-control terminal
8	Ultraviolet cleaning terminal		Wired controller
9	Up & down swing terminal 2		

Technical Information • • • • • • •

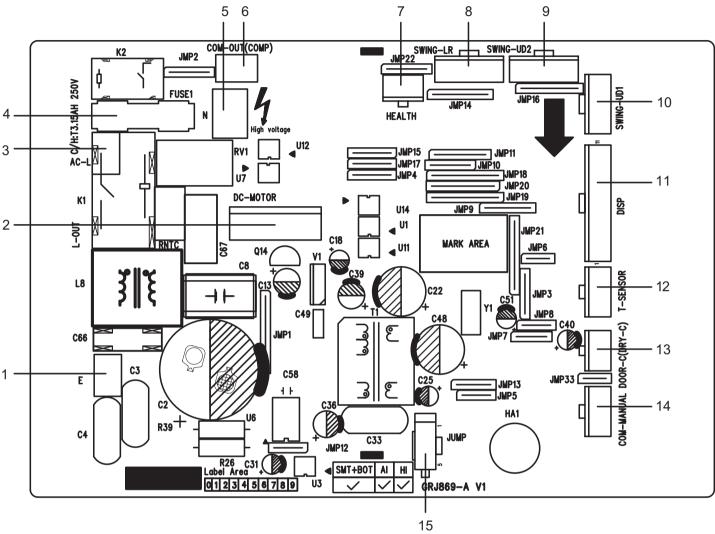
GWH09AGCXB-K6DNA4F/I GWH18AGDXB-K6DNA2D/I GWH12AGC-K6DNA4F/I GWH24AGDXE-K6DNA2C/I GWH12AGCXB-K6DNA1A/I GWH24AGD-K6DNA4C/I GWH18AGD-K6DNA4D/I



No.	Name	No.	Name
1	PG motor terminal	10	Display board terminal
2	Neutral wire terminal	11	Temperature sensor tube terminal
3	Fuse	12	Gate-control terminal
4	Health function terminal	13	Wired controller
5	Ultraviolet cleaning terminal		Jumper
6	Up & down swing terminal 2	15	Communication wire terminal
7	Up & down swing terminal 1	16	Live wire terminal (outdoor unit)
8	Left & right swing terminal		Live wire terminal
9	PG feedback terminal		

● ● ● ● ■ Technical Information

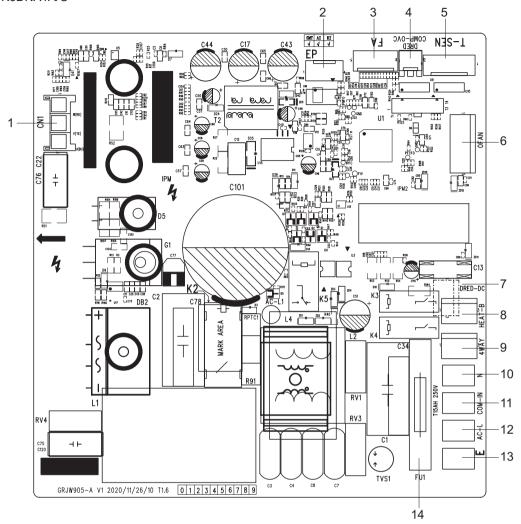
GWH18AGDXD-K6DNA4E/I GWH24AGEXF-K6DNA4A/I



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	12	Temperature sensor tube terminal	
5	Neutral wire terminal	13	Gate-control terminal	
6	Communication wire terminal	14	Wired controller	
7	Health function terminal	15	Jumper	
8	Left & right swing terminal			

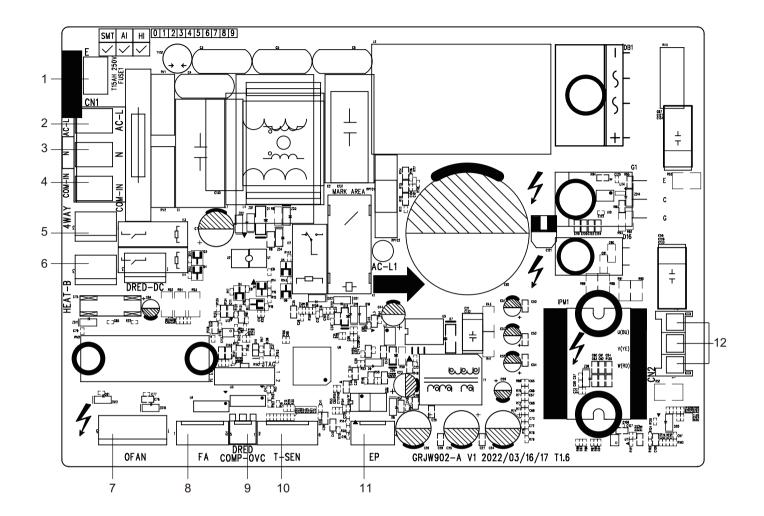
Outdoor Unit

GWH07AGA-K6DNA1A/O



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

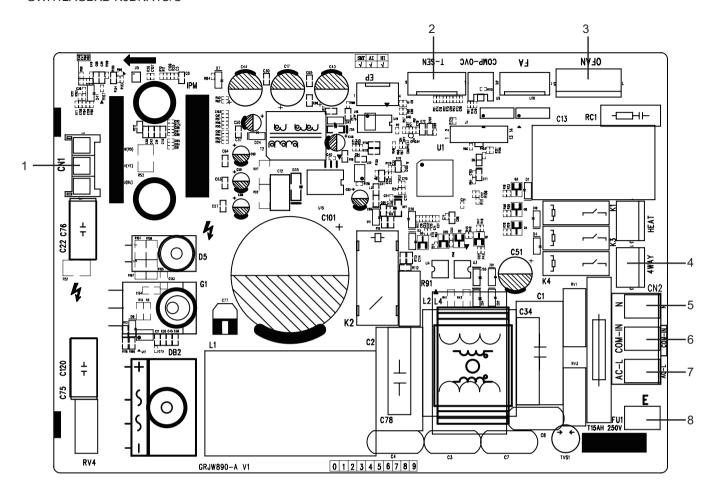
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No.	Name	No.	Name
1	Earthing wire terminal	7	Fan motor terminal
2	Live wire terminal	8	Electron expansion valve terminal
3	Neutral wire terminal	9	Compressor overload terminal
4	Communication terminal	10	Temperature sensor terminal
5	4-way valve terminal	11	EE flash drive terminal
6	Electric heating terminal of chassis	12	Compressor terminal

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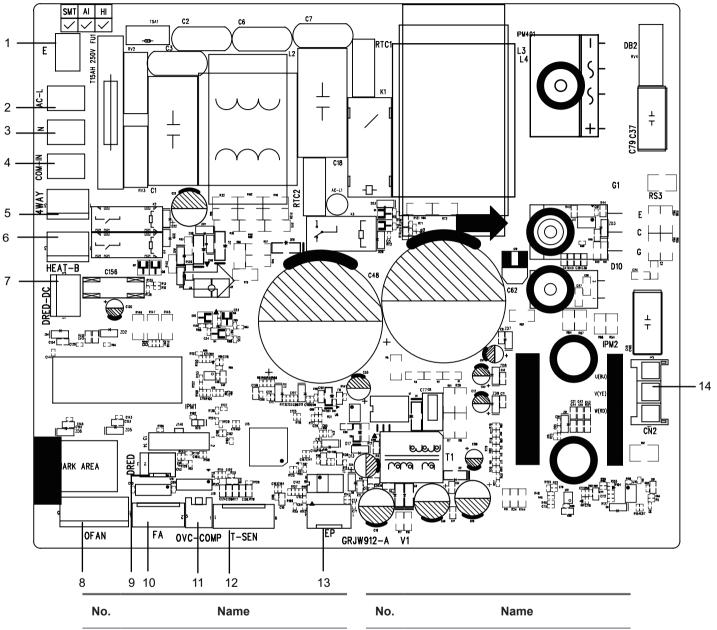
GWH12AGBXB-K6DNA4C/O



No.	Name	No.	Name
1	Compressor terminal	5	Neutral wire terminal
2	Temperature sensor terminal	6	Communication wire terminal
3	Outdoor fan terminal	7	Live wire terminal
4	4-way valve terminal	8	Earthing wire terminal

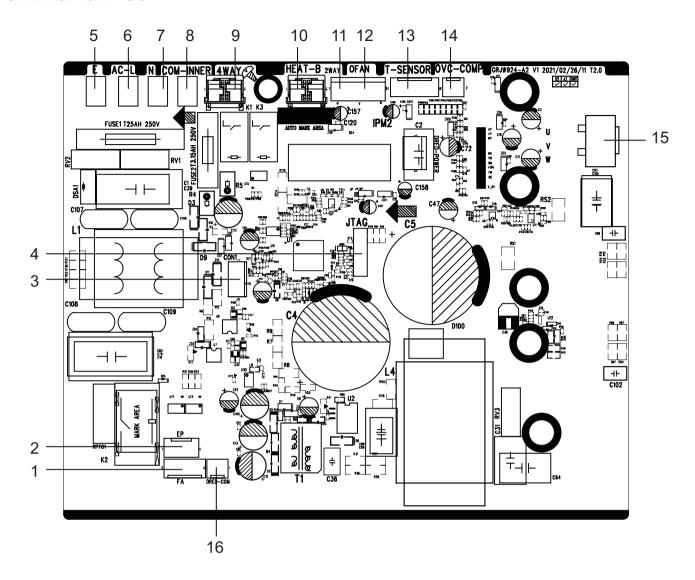
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GWH18AGD-K6DNA1E/O



No.	Name	No.	Name
1	Earthing wire terminal	8	Outdoor fan terminal
2	Live wire terminal	9	DRED(Reserved)
3	Neutral wire terminal	10	Electron expansion valve terminal
4	Communication wire terminal	11	Compressor overload terminal
5	4-way valve terminal		Temperature sensor terminal
6	Chassis electric heater terminal	13	EE Flash drive terminal
7	DRED-DC(Reserved)	14	Compressor terminal

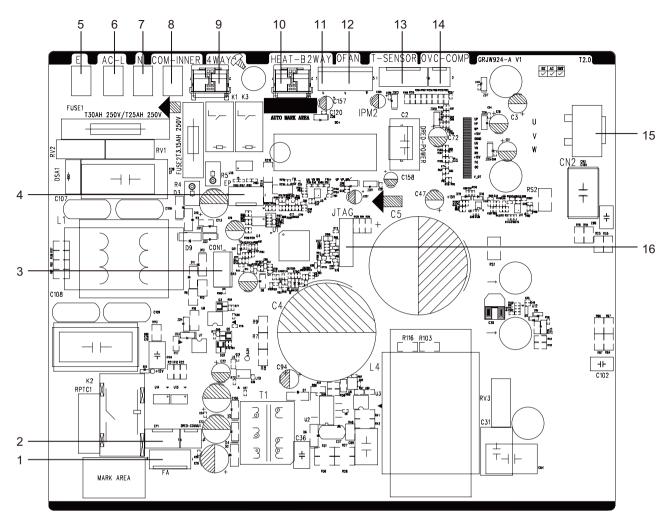
GWH24AGD-K6DNA1C/O



No.	Name	No.	Name
1	Electron expansion valve terminal	9	4-way valve terminal
2	EE flash drive terminal(Reserved)	10	Chassis electric heater terminal
3	Computer monitoring terminal	11	2-way valve terminal
4	Program debugs terminal	12	DC motor terminal
5	Earthing wire terminal	13	Temperature sensor terminal
6	Live wire terminal	14	Compressor overload terminal
7	Neutral wire terminal	15	Compressor terminal
8	Communication wire terminal	16	DRED(Reserved)

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GWH24AFE-K6DNA2I/O



No.	Name	No.	Name
1	Electron expansion valve terminal	9	4-way valve terminal
2	EE flash drive(Reserved)	10	Chassis electric heater terminal
3	Computer monitoring terminal		2-way valve terminal
4	EE flash drive terminal	12	DC motor terminal
5	Earthing wire terminal	13	Temperature sensor terminal
6	Live wire terminal	14	Compressor overload terminal
7	Neutral wire terminal	15	Compressor terminal
8	Communication wire terminal	16	Program debugs terminal

6. Function and Control

6.1 Remote Controller Introduction for YAP1F7(WiFi)

NOTICE:

- 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.

Buttons on remote controller



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 " / " \equiv " 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 " ≅ " / " ¾ " 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.

Technical Information

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 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)

💻 button

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



NOTE:

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

§I button

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

- When selecting " $_{80}$ ", 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.
- When selecting " ≥0 , ≥0 , ≥0 ", air conditioner is blowing fan at fixed angle. Horizontal louver will send air at the fixed angle.
- Hold " 🔊 " button above 2s to set your required swing angle. When reaching your required angle, release the button.

NOTE:

- " $_{\lessgtr 0}$, $_{\lessgtr 0}$, $_{\lessgtr 0}$ " 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 \$\opin\$0, if press this button again 2s later, \$\opin\$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, " \oplus " 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. " \oplus " icon resumes displaying. Cancel T-OFF. Under the condition that T-OFF is started up, press "T-OFF" button to cancel it.

NOTE:

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

| 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 " $_{\nabla}$ " button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. " $_{\bigoplus}$ " 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 "\(\bigcap\)". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays "\(\bigcap\)" and "\(\approx\)". 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 "\(\approx\)". 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. " ﴿ " icon on remote controller disappears. Press this button again to turn on display light. " ﴿ " 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:



Introduction for icons on display screen

		I feel
	FAN AUTO	Set fan speed
	<u></u>	Turbo mode
	♣	Send signal
٩	Δ	Auto mode
Operation mode	*	Cool mode
ion	66	Dry mode
erat	Y S	Fan mode
o	*	Heat mode
	© 3	Sleep mode
	\$	8°C heating function
	•	Power limiting operation
	*	Health mode
	£	Scavenging function
	&	X-FAN function
	•	☐ Set temp.
	Û↓ Temp.	্র Indoor ambient temp.
dis	splay type	Outdoor ambient temp.
	(9	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
	•	Quiet

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 energysaving 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, " \blacksquare " icon is displayed on remote controller. If you operate the remote controller, the " \blacksquare " icon will blink three times without sending signal to the unit.

Temperature display switchover function

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

Auto clean function

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

NOTE:

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

₹ function

Press "MODE" and "SLEEP" buttons simultaneously to start \$\overline{6}\$ function.

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



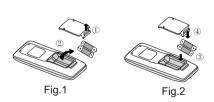
- Maximum power limited under the \$\overline{\
- If you want to cancel the power limiting function, press the button **\(\bar{a} \)** till the icon in remote controller is not displayed.
- When the remote controller is turned off, power limiting function is cancelled. If you want to activate the function, 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 $1 \, \textcircled{1}$).
- 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

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

between them.

- Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
- Replace new batteries of the same model when replacement

is required.

- When you don't use remote controller for a long time, please take out the batteries.
- If the display on remote controller is fuzzy or there's no display, please replace batteries.

6.2 Remote Controller Introduction for YAY1F

Buttons on remote controller



Introduction for icons on display screen

i i		I feel
	FAN AUTO	Set fan speed
	®	Turbo mode
	♠	Send signal
ge	Δ	Auto mode
mo	*	Cool mode
Operation mode	44	Dry mode
era	ડ્ક	Fan mode
Q	*	Heat mode
	C 3	Sleep mode
	<u> </u>	Light
	₽	Power limiting operation
	&	X-FAN function
	1	Indoor 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

NOTE:

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

(l) button

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

MODE button

Press this button to select your required operation mode:



- When selecting auto mode, air conditioner will operate automatically according to 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 " (b) " button can't start up the
 unit.

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 " (b) " 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 " U " button, the complete unit will be off directly.

-/+ button

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

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

MENU button

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

NOTE:

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

〔≟☆ੰ≟ Light function〕

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

C Sleep function

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

- Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1°C, two hours, setting temperature increased 2°C, then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1°C, two hours, setting temperature will decrease 2°C, then the unit will run at this setting temperature.
- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.
- Sleep 3- the sleep curve setting under Sleep mode by DIY;
- (1) Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remote controller will display "1hour", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);
- (2) Adjust " + " and " " button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation;
- (3) At this time, 1hour will be automatically increased at the timer position on the remote control, (that are "2hours" or "3hours" or "8hours"), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;
- (4) Repeat the above step (2)~(3) operation, until 8 hours temperature setting finished, sleep, curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.
- Sleep3- the sleep curve setting under Sleep mode by DIY could be inquired:

The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button

directly for confirmation.

NOTE: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press " (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, " \oplus " icon disappears and the word "ON" on remote controller blinks. Press " + " or " - " button to adjust TIMER ON setting. After each pressing " + " or " - " button TIMER ON setting will increase or decrease 1min. Hold " + " or " - " button, 2s later, the time will change quickly until reaching your required time. Press "SET" button to confirm it within 5S. The word "ON" will stop blinking.

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

(TIMER OFF function)

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

" icon disappears and the word "OFF" on remote controller blinks. Press " + " or " - " button to adjust TIMER OFF setting. After each pressing " + " or " - " button TIMER OFF setting will increase or decrease 1min.

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

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

(CLOCK function)

CLOCK function can set clock time. Under CLOCK function status, " () " icon on remote controller will blink. Press " + " or " - " button within 5s to set clock time. Each pressing of " + " or " - " button, clock time will increas e or decrease 1 min. If hold " + " or " - " button, 2s later, time will change quickly.

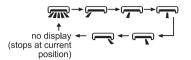
Release this button when reaching your required time, press "SET" button to confirm it within 5S. The " () " icon will stop blinking.

(**添** Left & right swing function)

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

right swing angle.

Fan blow angle can be selected circularly as below:



NOTE:

• The function is only available for some models.

$(\,$ $\S E$ Energy-saving function)

Under cooling mode, when selecting energy-saving function, energy-saving function icon " 5E" 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.

୍ଞ୍ରି 8℃-heating function

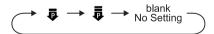
Under heating mode, when selecting 8°C-heating function, 8°C-heating icon " $g_{\rm c}$ " flashes for 5s; press "SET" button within 5s to turn on or turn off 8°C-heating. When 8°C-heating is started up, " $g_{\rm c}$ " will be shown on remote controller, and the air conditioner keep the heating status 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{1}\$ mode is lower than that of \$\overline{1}\$ mode.
- If you want to cancel the power limiting function, press the button **a** 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

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this button.

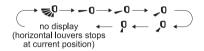
- If the current power is lower than the maximum power of \$\overline{6}\$ mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.

NOTE:

• The function is only available for some models.

SWING button

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



- When selecting "-0, ~ 0 , ~ 0

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.

TURBO button

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

Function introduction for combination buttons

Child lock function

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

Temperature display switchover function

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

Auto clean function

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

NOTE:

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

WiFi function

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

NOTE:

This function is only available for some models.

Ambient temperature display function

Press "SWING" and "SET" buttons simultaneously, you can see indoor ambient temperature on indoor unit's displayer and the " 1 " icon will be displayed on remote controller. The setting on remote controller is

selected circularly as below:

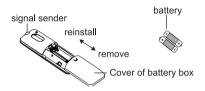


Adjustable temperature under auto mode



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 " $\ensuremath{\ensuremath{\wp}}$ ", 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.

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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.
- 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 won't stop within 6 mins according to the change of room temp.

a. Auto mode

① Operation condition and process for auto mode

Under auto mode, the system will automatically select operation mode (cooling, heating, and fan) according to indoor ambient temperature. There 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.

b. Cooling mode

① Operation condition and process for cooling mode

- ◆ When Tamb. ≥Tset+1°C, the system operates under cooling mode. In this case, the compressor, the ODU fan motor and the IDU fan motor operates at set speed.
- ♦ When 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 " $_{\triangle}$, $_{\nabla}$, $_{\triangle}$, $_{\nabla}$, $_{\triangle}$, $_{\nabla}$ 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 hasn't received feedback signal from outdoor unit after 3min, indoor unit will also cancel to send compulsory defrosting signal.

(10) Refrigerant recovery function:

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

(11) Ambient temperature display control mode

- 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 $180+Ts(0\le T\le 15)$. T is the variable of controller. Thats to say the minimum stop time of compressor is $180s\sim195s$. Read-in T into memory chip when refurbish the memory chip each time. After power recovery, compressor can only be started up after 180+T s at least.

(13) SE control mode

The unit operates at SE status.

(14) X-fan mode

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

(15) 8°C heating function

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

(16) Turbo function

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

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

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

- 1.Under the power off, press and hold the "Internal Clean" button for 3 seconds while holding down the "MODE" and "FAN" buttons for 5 seconds to turn on the Auto Clean function. After the function is turned on, the air conditioner displays "CL".
- 2. The evaporator will be rapidly cooled or heated during the automatic cleaning process. There may be noise or even noise. The noise generated by the plastic parts due to thermal expansion and contraction is normal. During the cleaning and disinfection process, the room temperature may increase slightly, please keep the room well ventilated.

Tips:

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

Outdoor Unit

1. Cooling mode:

Working condition and process of cooling mode:

① When Tindoor ambient temperature≥Tpreset, unit enters into cooling mode. Indoor fan, outdoor fan and compressor start operation. Indoor fan operates according to set fan speed.



- ② When Tindoor ambient temperature≤Tpreset-2°C, compressor stops operation and outdoor fan will stop 30s later. Indoor fan operates according to set fan speed.
- ③ When Tpreset-2°C < Tindoor ambient temperature < Tpreset, unit operates according to the previous status.

Under cooling mode, 4-way valve is not energized. Temperature setting range is 16~30°C. If compressor stops because of malfunction in cooling mode, indoor fan and swing motor will work according to the original status.

2. Drying mode

- (1) Working condition and process of drying mode
- ① When Tindoor ambient temperature > Tpreset, unit will be in drying mode. Outdoor fan and compressor start operation while indoor fan will operate at low fan speed.
- ② When Tpreset-2°C≤Tindoor ambient temperature≤Tpreset, unit operates according to the previous status.
- ③ When Tindoor ambient temperature < Tpreset-2°C, compressor stops operation and outdoor fan will stop 30s later.
- (2) Under drying mode, 4-way valve is not energized. Temperature setting range is 16~30°C.
- (3) Protection function: same as in cooling mode.

3. Fan mode

- (1) Under this mode, indoor fan can select different fan speed (except Turbo) or auto fan speed. Compressor, outdoor fan and 4-way valve all stop operation.
- (2) In fan mode, temperature setting range is 16~30°C.

4. Heating mode

Working condition and process of heating mode:

- ① When Tpreset-(Tindoor ambient temperature-Tcompensation)≥1°C, unit enters into heating mode. Compressor, outdoor fan and 4-way valve start operation.
- ② When $-2^{\circ}C$ < Tpreset-(Tindoor ambient temperature-Tcompensation) < 1°C, unit operates according to the previous status.
- ③ When Tpreset-(Tindoor ambient temperature-Tcompensation)≤-2°C, compressor stops operation and outdoor fan will stop 30s later. Indoor fan will be in residual-heat blowing status.
- When unit is turned off under heating mode or changed to other modes from heating mode, 4-way valve will be power-off 2min after compressor stops working (compressor is in operation status under heating mode).
- When Toutdoor ambient temperature > 30°C, compressor stops operation immediately. Outdoor fan will stop 30s later.
- ⑥ Under the condition that compressor is turned on, when unit is changed to heating mode from cooling or drying mode, 4-way valve will be energized in 2~3mins delay.

Note: Tcompensation is determined by IDU and ODU. If IDU controls the compensation temperature, then Tcompensation is determined according to the value sent by IDU to ODU; If IDU does not control the compensation temperature, then

Tcompensation will default to 3°C by the ODU.

5. Freon recovery mode

After the Freon recovery signal from IDU is received, cooling at rated frequency will be forcibly turned on to recover Freon. Indoor unit will display Fo. If any signal from remote controller is received, unit will exit from Freon recovery mode and indoor unit stops displaying Fo.

6. Compulsory defrosting

If unit is turned on under heating mode and set temperature is 16°C (by remote controller), press " $_{\triangle}$, $_{\nabla}$, $_{\triangle}$, $_{\nabla}$, $_{\triangle}$, $_{\nabla}$ " within 5s, unit will enter into compulsory defrosting mode and send the signal to ODU. When the compulsory defrosting signal from ODU is received, IDU will exit from the compulsory defrosting mode and stop sending the signal to ODU.

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

7. Auto mode

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

8.8°C heating

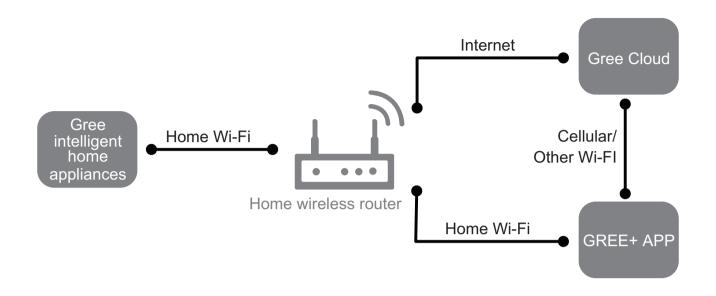
Set temperature is 8°C. Display board of IDU displays 8°C. Under this mode, "Cold air prevention" function is shielded.

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

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

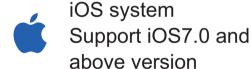
6.4 GREE+ App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system
Support Android 4.4 and above version

Download and installation



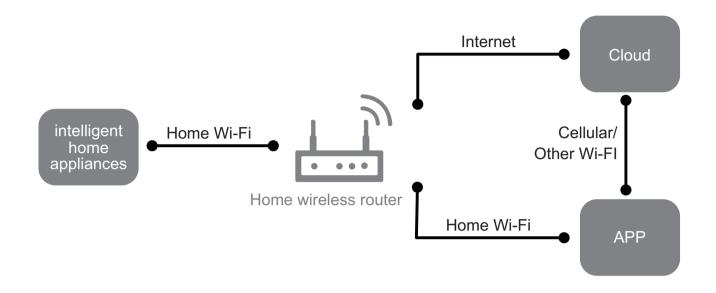
GREE+ App Download Linkage

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.

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

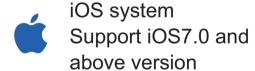
6.5 Ewpe Smart App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system
Support Android 4.4 and above version

Download and installation



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.
- 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.

Installation and Maintenance

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.

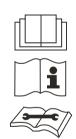
Safety Precautions for Refrigerant

- 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.





Safety Operation of Flammable Refrigerant

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.

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

Maintenance notes

- Check whether the maintenance area or the room area meet the requirement of the nameplate.
- It's only allowed to be operated in the rooms that meet the requirement of the nameplate.
- Check whether the maintenance area is well-ventilated.
- The continuous ventilation status should be kept during the operation process.
- Check whether there is fire source or potential fire source

Installation and Maintenance

in the maintenance area.

- The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.
- Check whether the appliance mark is in good condition.
- Replace the vague or damaged warning mark.

Welding

- If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with N2 gas
- e. Cutting or welding
- f. Carry back to the service spot for welding
- Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.
- The refrigerant should be recycled into the specialized storage tank.

Filling the refrigerant

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

Safety instructions for transportation and storage

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

Main Tools for Installation and Maintenance









































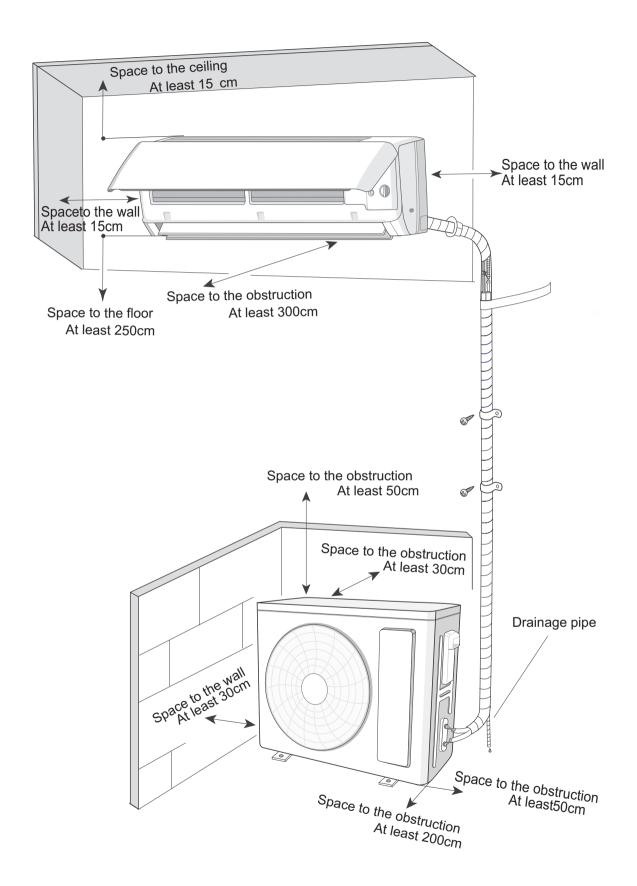




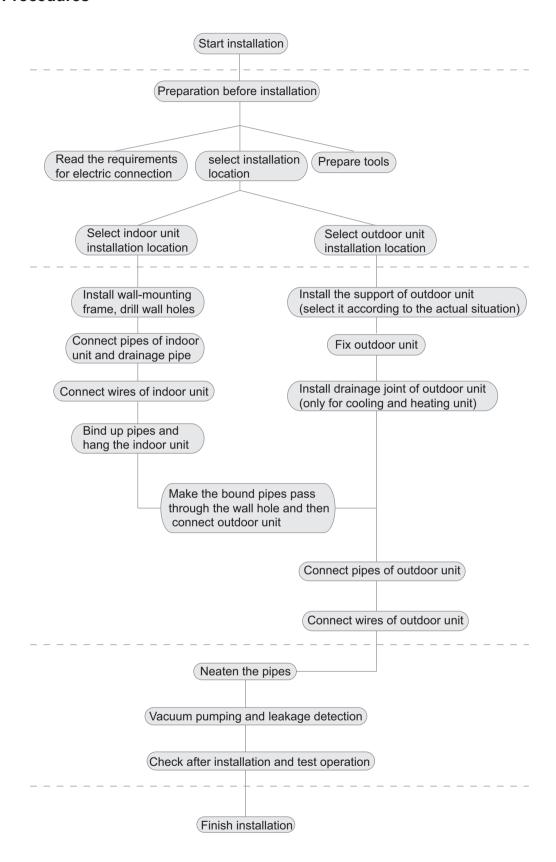
Installation and Maintenance 68

8. Installation

8.1 Installation Dimension Diagram



Installation Procedures



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

8.2 Installation Parts-checking

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

↑ Note:

- 1.Please contact the local agent for installation.
- 2.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:

- (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) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard .
- (8) The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.
- (9) The appliance shall be installed in accordance with national wiring regulations.

2. Grounding Requirement:

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

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

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

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

8.5 Installation of Indoor Unit

1. Choosing Installation location

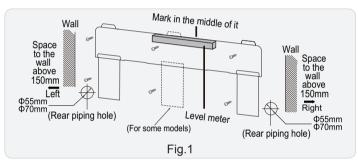
Recommend the installation location to the client and then confirm it with the client.

2. Install Wall-mounting Frame

- (1) Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.
- (2) Drill the screw fixing holes on the wall with impact drill (the specification of drill head should be the same as the plastic expansion particle) and then fill the plastic expansion particles in the holes.
- (3) Fix the wall-mounting frame on the wall with tapping screws and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

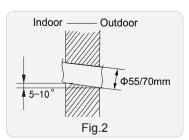
3. Open piping hole

(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, shown as below. (As show in Fig. 1)



∧ Note:

- The wall panel is for illustrative purposes only, please refer to the actual installation.
- Please refer to the actual circumstances for the number of screws and the position of screws.
- (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) Open 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°.

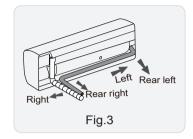


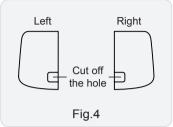
∧ Note:

• Pay attention to dust prevention and take relev ant safety measures when opening the hole.

4. Outlet Pipe

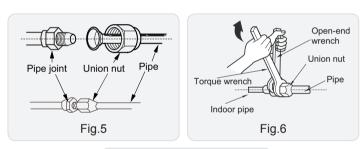
- (1) The pipe can be led out in the direction of right, rear right, left or rear left.(As show in Fig.3)
- (2) When selecting leading out the pipe from left or right, please cut off the corresponding hole on the bottom case.(As show in Fig.4)

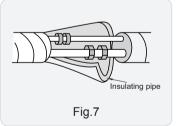




5. Connect the Pipe of Indoor Unit

- (1) Aim the pipe joint at the corresponding bellmouth.(As show in Fig.5)
- (2) Pretightening the union nut with hand.
- (3) Adjust the torque force by referring to the following sheet. Place the open-end wrench on the pipe joint and place the torque wrench on the union nut. Tighten the union nut with torque wrench.(As show in Fig.6)
- (4) Wrap the indoor pipe and joint of connection pipe with insulating pipe, and then wrap it with tape.(As show in Fig.7)



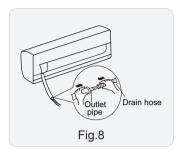


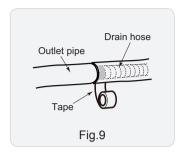
Refer to the following table for wrench moment of force:

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

6. Install Drain Hose

- (1) Connect the drain hose to the outlet pipe of indoor unit.(As show in Fig.8)
- (2) Bind the joint with tape.(As show in Fig.9)

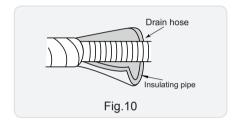




⚠ Note:

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

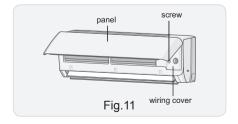
(As show in Fig.10)



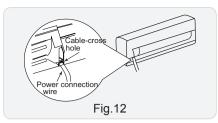
7. Connect Wire of Indoor Unit

↑ NOTICE:

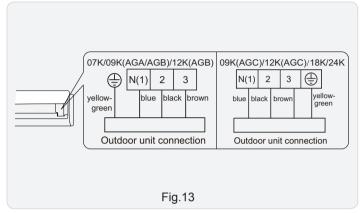
- (1) All wires of indoor unit and outdoor unit should be connected by a professional.
- (2) If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- (3) For the air conditioner with plug, the plug should be reachable after finishing installation.
- (4) For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.
- (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)

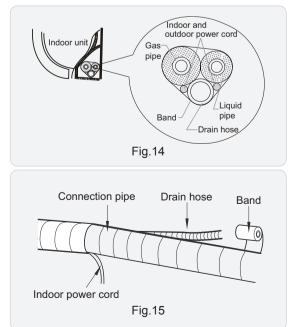


NOTICE: The wiring connect is for reference only, please refer to the actual one.

- (4) Put wiring cover back and then tighten the screw.
- (5) Close the panel.

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.

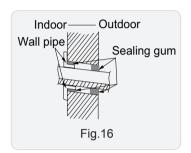


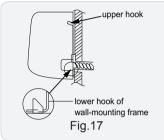
⚠ Note:

- (1) The power cord and control wire can't be crossed or winding.
- (2) The drain hose should be bound at the bottom.

9. Hang the Indoor Unit

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





♠ Note:

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

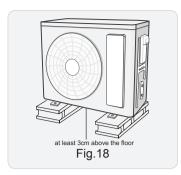
8.6 Installation of Outdoor Unit

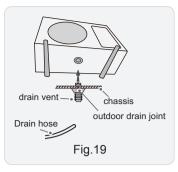
1. Fix the Support of Outdoor Unit(Select it according to the actual installation situation)

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

⚠ Note:

- (1) Take sufficient protective measures when installing the outdoor unit.
- (2) Make sure the support can withstand at least four times the unit weight.
- (3) The outdoor unit should be installed at least 3cm above the floor in order to install drain joint. (for the model with heating tube, the installation height should be no less than 20cm.)(As show in Fig.18)
- (4) For the unit with cooling capacity of 2300W~5000W, 6 expansion screws are needed; for the unit with cooling capacity of 6000W~8000W, 8 expansion screws are needed; for the unit with cooling capacity of 10000W~16000W, 10 expansion screws are needed.





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

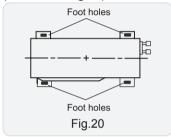
- (1) Connect the outdoor drain joint into the hole on the chassis.
- (2) Connect the drain hose into the drain vent.

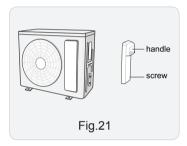
(As show in Fig.19)

3. Fix Outdoor Unit

- (1) Place the outdoor unit on the support.
- (2) Fix the foot holes of outdoor unit with bolts.

(As show in Fig.20)





4. Connect Indoor and Outdoor Pipes

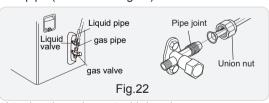
(1) Remove the screw on the right handle of outdoor unit and then remove the handle.(As show in Fig.21)

⚠ Note:

(1) 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.



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



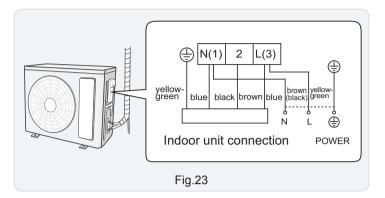
- (3) Pretightening the union nut with hand.
- (4) Tighten the union nut with torque wrench.

Refer to the following table for wrench moment of force:

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

5. Connect Outdoor Electric Wire

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



↑ Note:

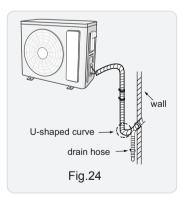
- (1) The wiring board is for reference only, please refer to the actual one.
- (2) Fix the power connection wire and signal control wire with wire clip (only for cooling and heating unit).

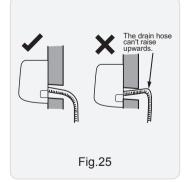
∧ Note:

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

6. Neaten the Pipes

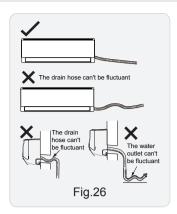
- (1) The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
- (2) If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting into the room.(As show in Fig.24)





∧ Note:

- (1) The through-wall height of drain hose shouldnt be higher than the outlet pipe hole of indoor unit.(As show in Fig.25)
- (2) Slant the drain hose slightly downwards. The drain hose can't be curved, raised and fluctuant, etc.(As show in Fig.26)
- (3) The water outlet can't be placed in water in order to drain smoothly.(As show in Fig.27)

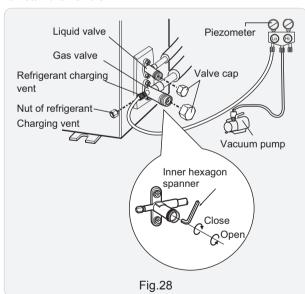




8.7 Vacuum Pumping and Leak Detection

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)
- (7) Reinstall the handle.



2. Leakage Detection

(1) With leakage detector:

Check if there is leakage with leakage detector.

(2) With soap water:

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

8.8 Check after Installation and Test Operation

1. Check after Installation

Check according to the following requirement after finishing installation.

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

2. Test Operation

- (1) Preparation of test operation
- The client approves the air conditioner installation.
- Specify the important notes for air conditioner to the client.
- (2) Method of test operation
- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- If the ambient temperature is lower than 16°C, the air conditioner can't start cooling.

9. Maintenance

9.1 Error Code List

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	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	Please refer to the malfunction analysis (discharge protection, overload).
Overcurrent protection	E5	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	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 will stop; during heating operation, the complete unit will stop operation.	 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.

		I	
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		1.Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2.The head of temperature sensor hasn't been inserted into the copper tube
Limit/decrease frequency due to overload	F6	All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)
Decrease frequency due to overcurrent	F8	All loads operate normally, while operation frequency for compressor is decreased	The input supply voltage is too low; System pressure is too high and overload
Decrease frequency due to high air discharge	F9	All loads operate normally, while operation frequency for compressor is decreased	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
Limit/decrease frequency due to antifreezing	FH	All loads operate normally, while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low
Voltage for DC busbar 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 frequence in test state	P0		Showing during min. cooling or min. heating test
Compressor rated	P1		Showing during nominal cooling or nominal heating test
frequence in test state Compressor maximum frequence in test state	P2		Showing during max. cooling or max. heating test
Compressor intermediate frequence in test state	P3		Showing during middle cooling or middle heating test
Overcurrent protection of phase current for compressor	P5	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
Charging malfunction of capacitor	PU	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Refer to the part three—charging malfunction analysis of capacitor

Malfunction of module temperature sensor circuit	P7	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Replace outdoor control panel AP1
Module high temperature protection	P8	During cooling operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	After the complete unit is de-energized for 20mins, check whether the thermal grease on IPM Module of outdoor control panel AP1 is sufficient and whether the radiator is inserted tightly. If it's no use, please replace control panel AP1.
Overload protection for compressor	Н3	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	1	Defrosting will occur in heating mode. Compressor will operate while indoor fan will stop operation.	Not the error code. It's the status code for the operation
The four-way valve is abnormal	U7	If this malfunction occurs during heating operation, the complete unit will stop operation.	1.Supply voltage is lower than AC175V;2.Wiring terminal 4V is loosened or broken;3.4V is damaged, please replace 4V.

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

Analysis or processing of some of the malfunction display:

1. Compressor discharge protection

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

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

2. Low voltage overcurrent protection

Possible cause: Sudden drop of supply voltage.

3.Communication malfunction

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

4. Sensor open or short circuit

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

5. Compressor over load protection

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

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

6. System malfunction

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

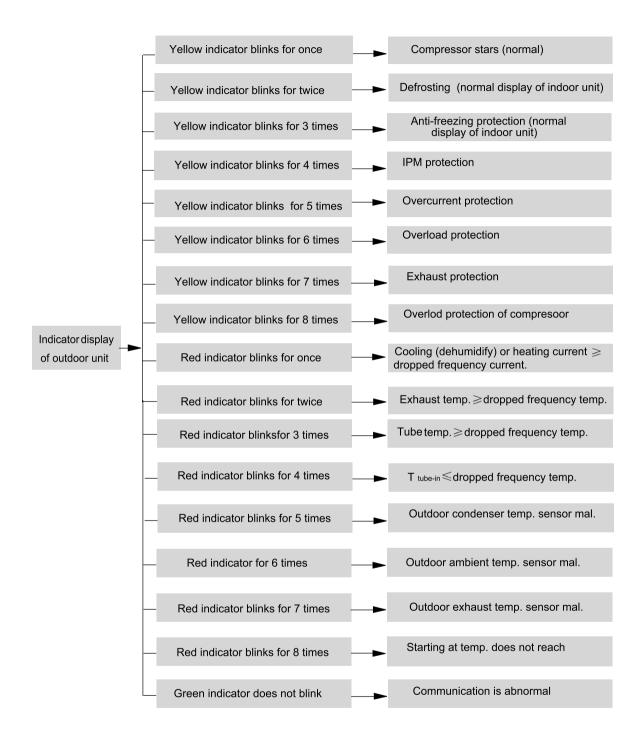
Possible causes: Outdoor temperature is too high when cooling; insufficient outdoor air circulation; refrigerant flow malfunction.

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

7. IPM module protection

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

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



9.2 Procedure of Troubleshooting

•Indoor unit:

1. Malfunction of Temperature Sensor F1, F2

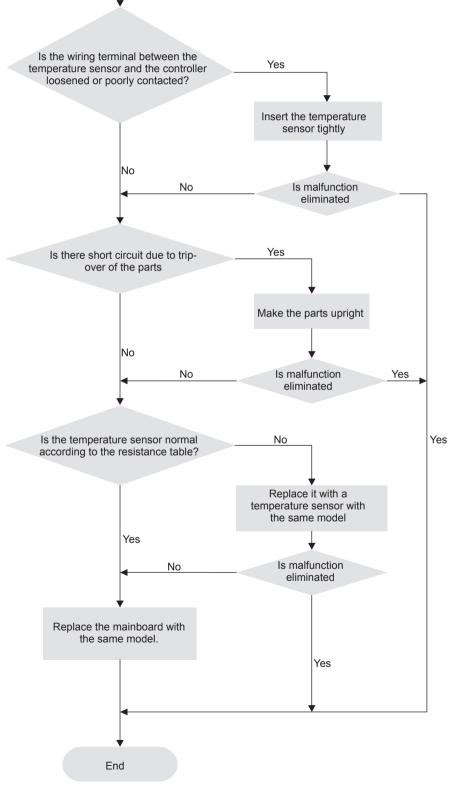
Main detection points:

• Is the wiring terminal between the temperature sensor and the controller loosened or poorly contacted?

Start

- Is there short circuit due to trip-over of the parts?
- Is the temperature sensor broken?
- Is mainboard broken?

Malfunction diagnosis process:

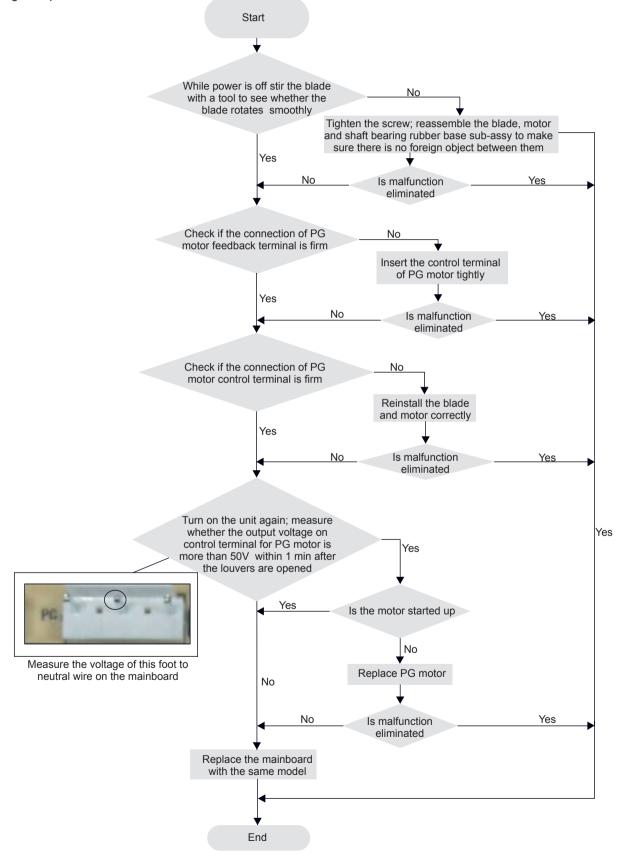


2. Malfunction of Blocked Protection of IDU Fan Motor H6

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:

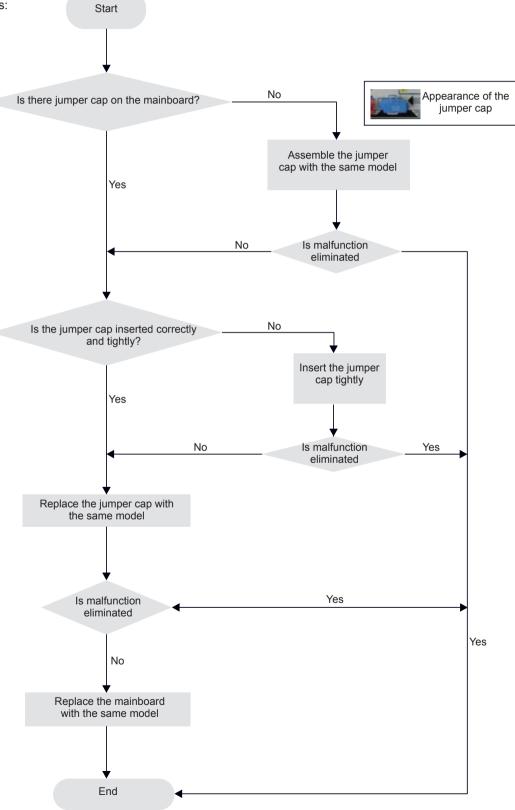


3. Malfunction of Protection of Jumper Cap C5

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:

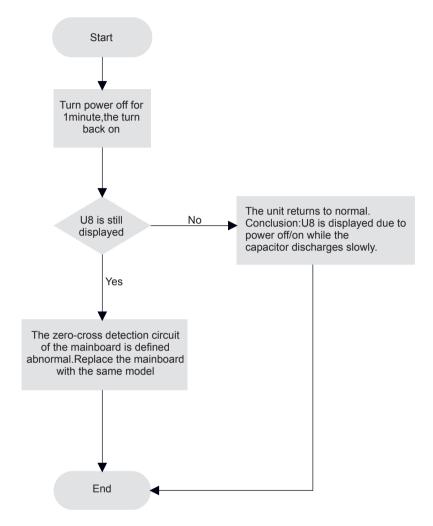


4. Malfunction of Zero-crossing Inspection Circuit Malfunction of the IDU Fan Motor U8

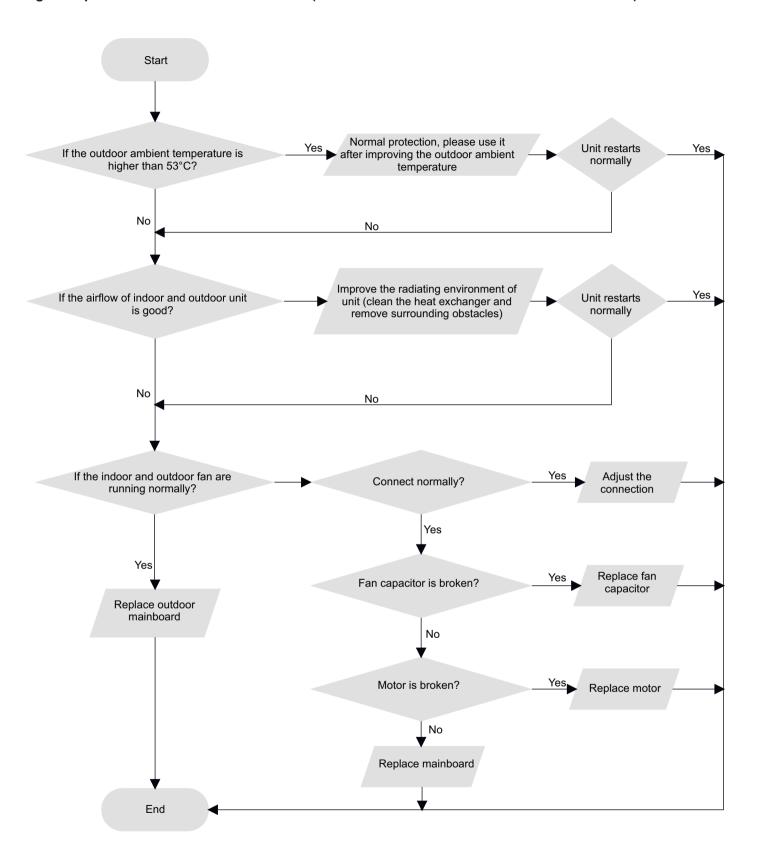
Main detection points:

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

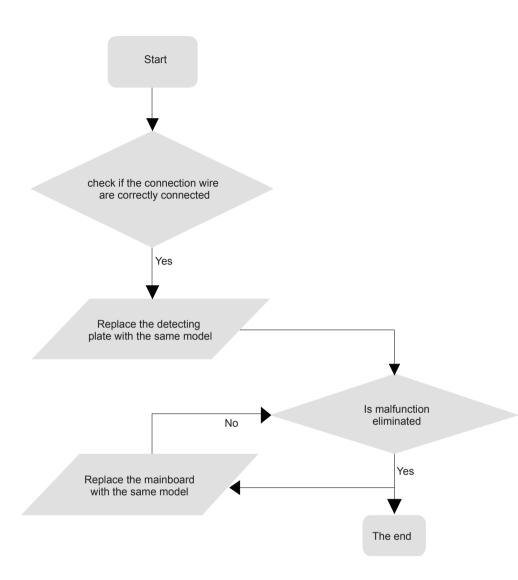
Malfunction diagnosis process:



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



6. Malfunction of detecting plate(WIFI) JF



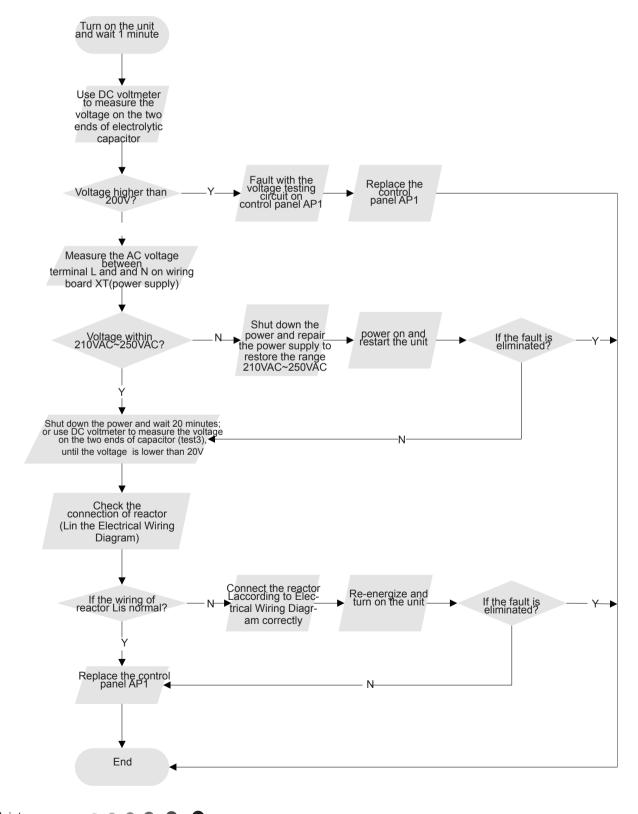
Outdoor unit:

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:

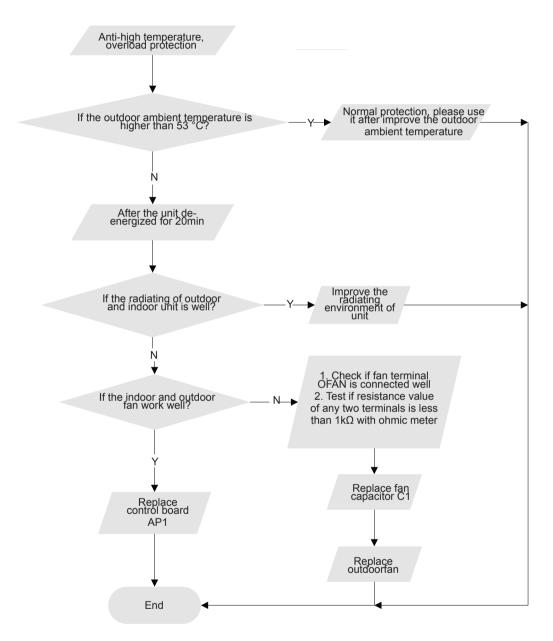


2. Diagnosis for anti-high temperature, overload protection (AP1 below is control board of outdoor unit)

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.

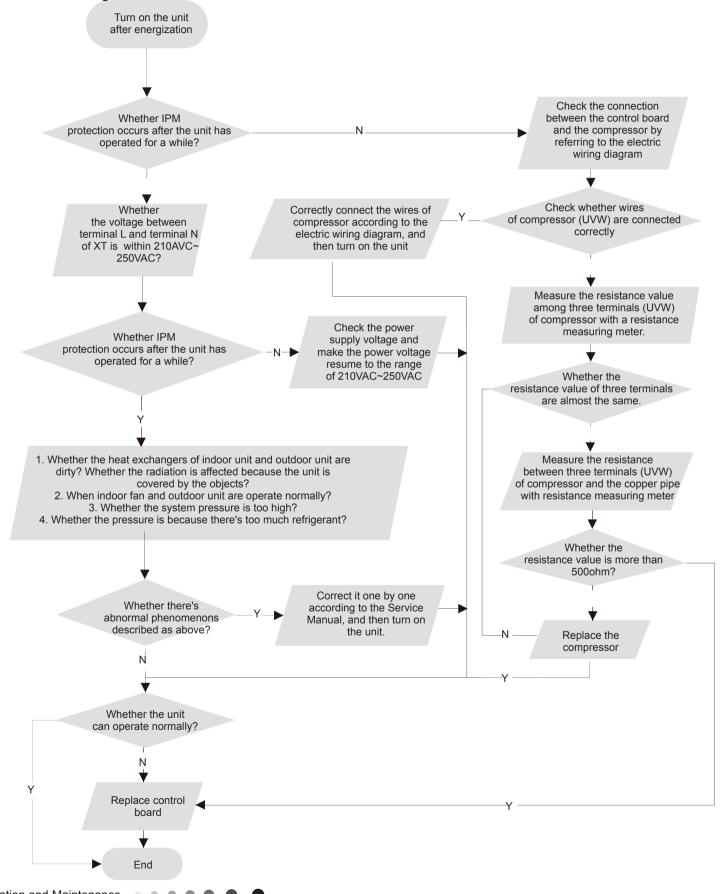
Malfunction diagnosis process:



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:

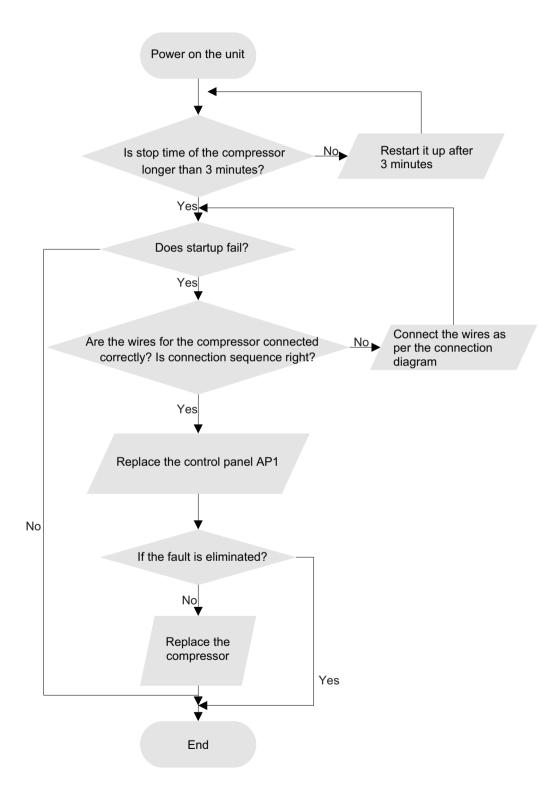


4. Start-up failure (following AP1 for outdoor unit control board)

Mainly detect:

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

Fault diagnosis process:

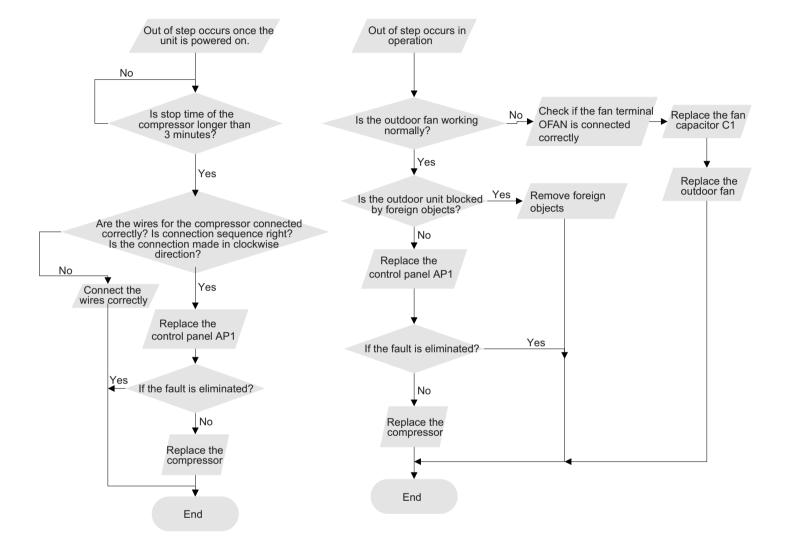


5. Out of step diagnosis for the compressor (AP1 hereinafter refers to the control board of the outdoor unit)

Mainly detect:

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

Fault diagnosis process:

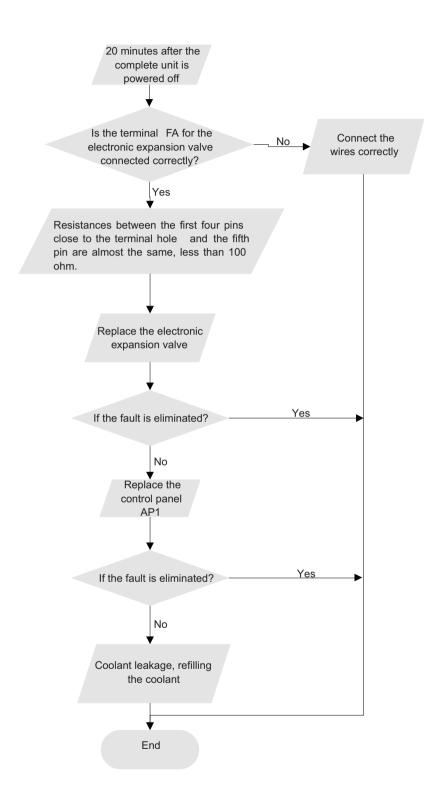


6. Overload and air exhaust malfunction diagnosis (following AP1 for outdoor unit control board)

Mainly detect:

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

Fault diagnosis process:



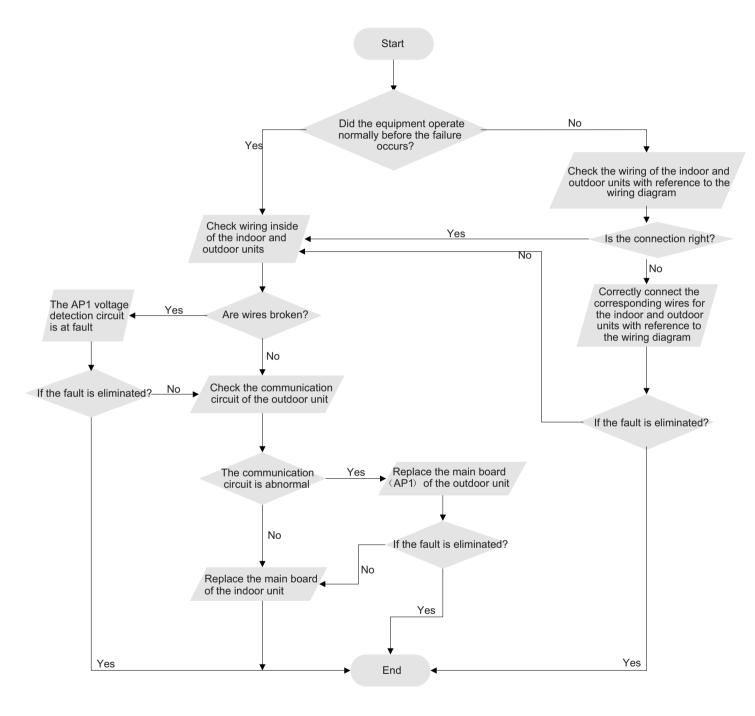
7. Communication malfunction: (following AP1 for outdoor unit control board)

Mainly detect:

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

damage?

Fault diagnosis process:

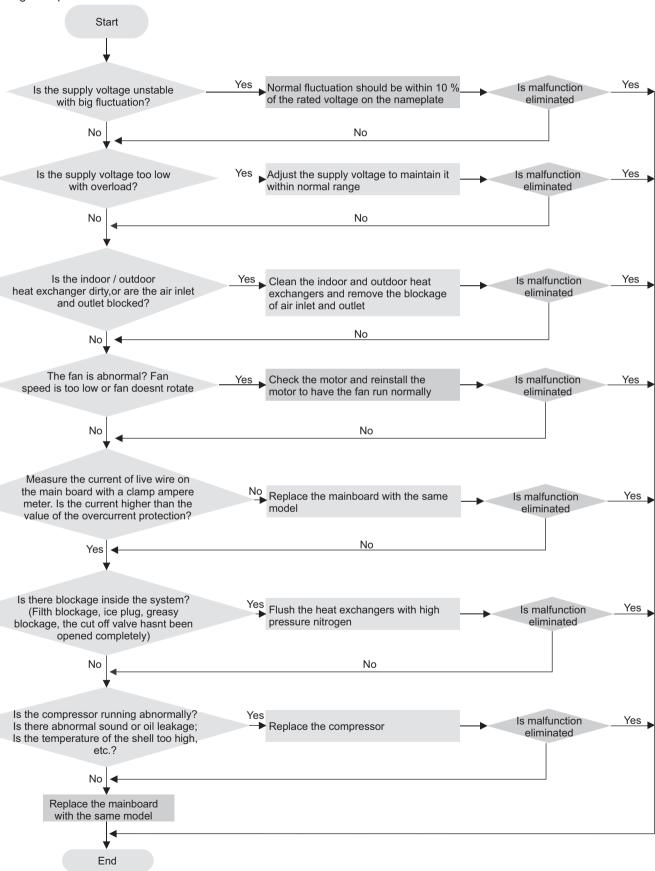


8. Malfunction of Overcurrent Protection

Main detection points:

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

Malfunction diagnosis process:



9.3 Troubleshooting for Normal Malfunction

1. Air Conditioner Can't be Started Up

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
	After energization, operation indicator isn't bright and the buzzer can't give out sound	Confirm whether it's due to power failure. If yes, wait for power recovery. If not, check power supply circuit and make sure the power plug is connected well.
Wrong wire connection between indoor unit and outdoor unit, or poor connection for wiring terminals	oneration indicator isn't bright after energization	Check the circuit according to circuit diagram and connect wires correctly. Make sure all wiring terminals are connected firmly
Electric leakage for air conditioner	After energization, room circuit breaker trips off at once	Make sure the air conditioner is grounded reliably Make sure wires of air conditioner is connected correctly Check the wiring inside air conditioner. Check whether the insulation layer of power cord is damaged; if yes, place the power cord.
Model selection for air switch is improper	After energization, air switch trips off	Select proper air switch
		Replace batteries for remote controller Repair or replace remote controller

2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see its blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation 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 isn't leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver can't swing	Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor	The IDU fan motor can't operate	Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor	The ODU fan motor can't operate	Refer to point 4 of maintenance method for details
Malfunction of compressor	Compressor can't operate	Refer to point 5 of maintenance method for details

3. Horizontal Louver Can't Swing

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Stepping motor is damaged	Stepping motor can't operate	Repair or replace stepping motor
Main board is damaged	Others are all normal, while horizontal louver can't operate	Replace the main board with the same model

4. ODU Fan Motor Can't Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
		Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of the ODU fan motor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Motor of outdoor unit is damaged		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
	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
Wyranning is not tight	Water leaking from the pipe connection place of indoor unit	Wrap it again and bundle it tightly

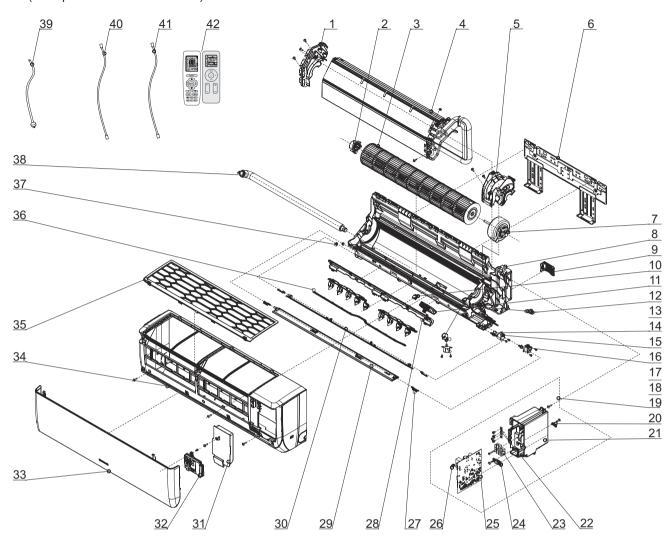
7. Abnormal Sound and Vibration

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

10. Exploded View and Parts List

10.1 Indoor Unit

AGA/AGB (Sweep the wind in all directions)



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

NO.	Description
1	Evaporator Support
2	Axile Bush Sub-assy
3	Cross Flow Fan
4	Evaporator Assy
5	Motor Press Plate
6	Wall Mounting Frame Sub-assy
7	Fan Motor
8	Rear Case
9	Connecting pipe clamp
10	Screw Cover
11	Plasmacluster Ion
12	Rubber Plug (Water Tray)
13	Air Louver
14	Crank

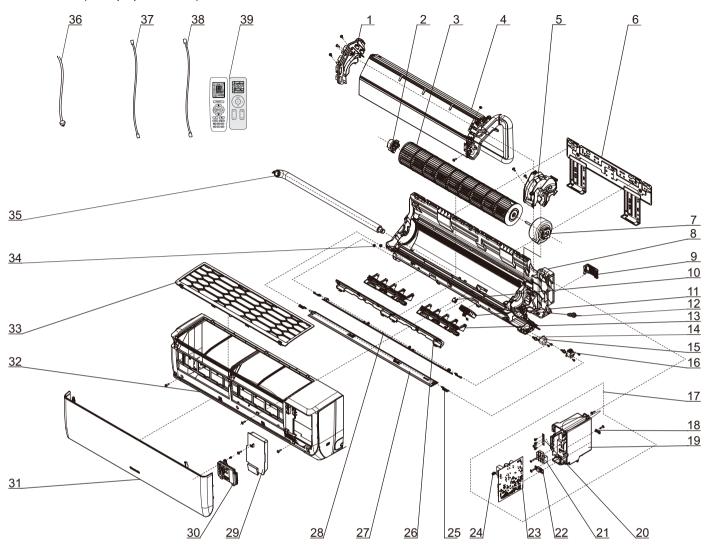
NO.	Description
15	Stepping Motor
16	Stepping Motor
17	Air Louver (Auto)
18	Stepping Motor
19	Electric Box Assy
20	Wire Clamp
21	Electric Box
22	Earthing
23	Terminal Board
24	Cable Clamp 2
25	Main Board
26	Jumper
27	Plug Pin
28	Helicoid Tongue

NO.	Description
29	Guide Louver (lower)
30	Guide Louver (upper)
31	Electric Box Cover 2
32	Display Board
33	Front Panel
34	Front Case
35	Filter Sub-Assy
36	Swing Lever
37	Left Axile Bush
38	Drainage Hose
39	Power Cord
40	Connecting Cable
41	Connecting Cable
42	Remote Controller

99

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

AGA/AGB (Sweep up and down)



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

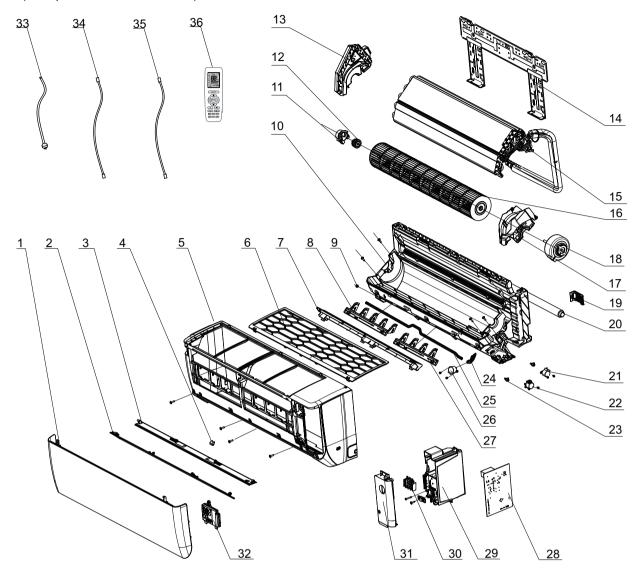
NO.	Description
1	Evaporator Support
2	Axile Bush Sub-assy
3	Cross Flow Fan
4	Evaporator Assy
5	Motor Press Plate
6	Wall Mounting Frame Sub-assy
7	Fan Motor
8	Rear Case
9	Connecting pipe clamp
10	Screw Cover
11	Plasmacluster Ion
12	Rubber Plug (Water Tray)
13	Air Louver

NO.	Description
14	Crank
15	Stepping Motor
16	Stepping Motor
17	Electric Box Assy
18	Wire Clamp
19	Electric Box
20	Earthing
21	Terminal Board
22	Cable Clamp 2
23	Main Board
24	Jumper
25	Plug Pin
26	Helicoid Tongue

NO.	Description
27	Guide Louver (lower)
28	Guide Louver (upper)
29	Electric Box Cover2
30	Display Board
31	Front Panel
32	Front Case
33	Filter Sub-Assy
34	Left Axile Bush
35	Drainage Hose
36	Power Cord
37	Connecting Cable
38	Connecting Cable
39	Remote Controller

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

AGC (Sweep the wind in all directions)



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

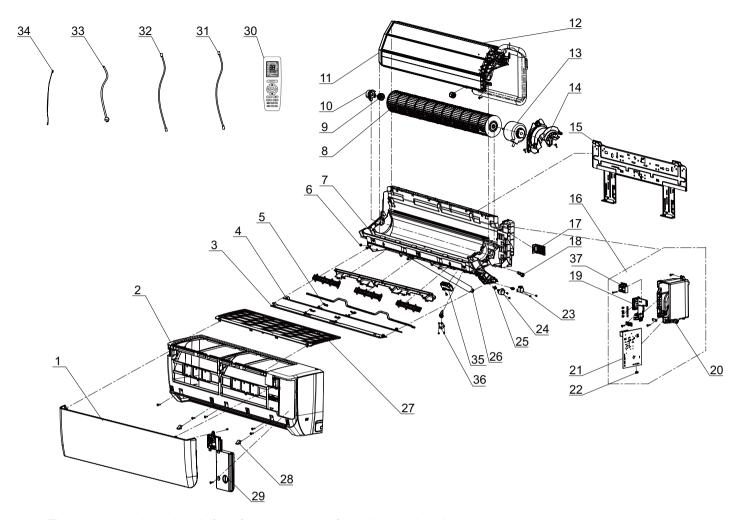
NO.	Description
1	Front Panel
2	Guide Louver (upper)
3	Guide Louver (lower)
4	Screw Cover
5	Front Case
6	Filter Sub-Assy
7	Helicoid Tongue
8	Air Louver(left)
9	Left Axile Bush
10	Rear Case assy
11	Ring of Bearing
12	O-Gasket sub-assy of Bearing

NO.	Description
13	Evaporator Support
14	Wall Mounting Frame
15	Evaporator Assy
16	Cross Flow Fan
17	Motor Press Plate
18	Fan Motor
19	Connecting pipe clamp
20	Drainage Hose
21	Stepping Motor
22	Stepping Motor
23	Crank
24	Air Louver(auto)

NO.	Description
25	Sweeping connecting rod
26	Stepping Motor
27	Air Louver(right)
28	Main Board
29	Electric Box Assy
30	Terminal Board
31	Electric Box Cover
32	Display Board
33	Power Cord
34	Connecting Cable
35	Connecting Cable
36	Remote Controller

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

AGD (Sweep the wind in all directions)



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

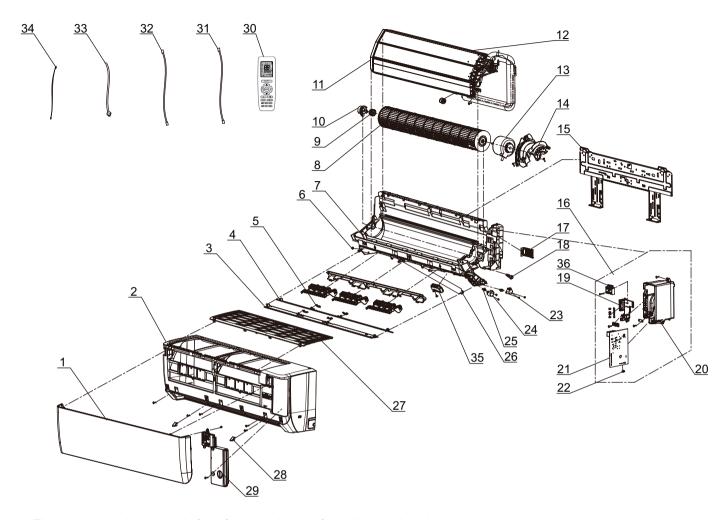
NO.	Description
1	Front Panel
2	Front Case Assy
3	Guide Louver Sub-assy 1
4	Guide Louver Sub-assy 2
5	Plug Pin
6	Left Axile Bush
7	Rear Case assy
8	Cross Flow Fan
9	Ring of Bearing
10	O-Gasket sub-assy of Bearing
11	Evaporator Support
12	Evaporator Assy
13	Fan Motor

NO.	Description
14	Motor Press Plate
15	Wall Mounting Frame Sub-assy
16	Electric Box Assy
17	Connecting pipe clamp
18	Rubber Plug (Water Tray)
19	Supporter
20	Electric Box
21	Main Board
22	Jumper
23	Stepping Motor
24	Stepping Motor
25	Crank
26	Drainage Hose

NO.	Description
27	Filter Sub-Assy
28	Screw Cover
29	Electric Box Cover
30	Remote Controller
31	Connecting Cable
32	Connecting Cable
33	Power Cord
34	Temperature Sensor
35	Plasmacluster Ion
36	Stepping Motor
37	Teminal Board

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

AGD (Sweep up and down)



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

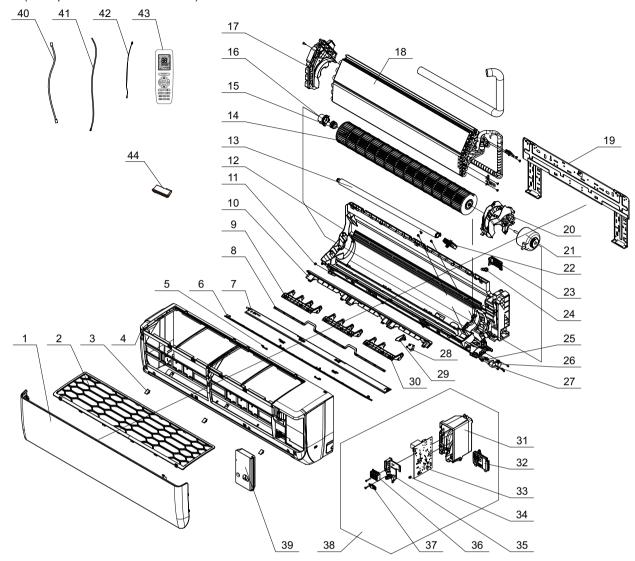
NO.	Description
1	Front Panel
2	Front Case Assy
3	Guide Louver Sub-assy 1
4	Guide Louver Sub-assy 2
5	Plug Pin
6	Left Axile Bush
7	Rear Case
8	Cross Flow Fan
9	Ring of Bearing
10	O-Gasket sub-assy of Bearing
11	Evaporator Support
12	Evaporator Assy
13	Fan Motor

NO.	Description
14	Motor Press Plate
15	Wall Mounting Frame Sub-assy
16	Electric Box Assy
17	Connecting pipe clamp
18	Rubber Plug (Water Tray)
19	Supporter
20	Electric Box
21	Main Board
22	Jumper
23	Stepping Motor
24	Stepping Motor
25	Crank
26	Drainage Hose

NO.	Description
27	Filter Sub-Assy
28	Screw Cover
29	Electric Box Cover
30	Remote Controller
31	Connecting Cable
32	Connecting Cable
33	Power Cord
34	Temperature Sensor
35	Plasmacluster Ion
36	Terminal Board

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

AGE (Sweep the wind in all directions)



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	Front Case
5	Plug Pin
6	Guide Louver Sub-assy 1
7	Guide Louver Sub-assy 2
8	Sweeping Connecting Rod
9	Air Louver(Automatic)
10	Helicoid Tongue
11	Left Axile Bush
12	Rear Case
13	Drainage Hose
14	Cross Flow Fan
15	O-Gasket sub-assy of Bearing

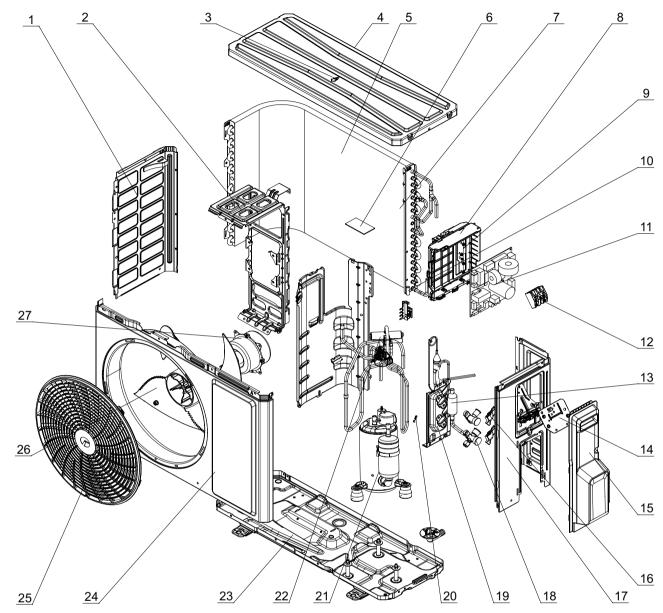
NO.	Description
16	Ring of Bearing
17	Evaporator Support
18	Evaporator Assy
19	Wall Mounting Frame
20	Motor Press Plate
21	Fan Motor
22	Plasmacluster Ion
23	Connecting pipe clamp
24	Rubber Plug (Water Tray)
25	Crank
26	Stepping Motor
27	Stepping Motor
28	Stepping Motor
29	Sweep Blade
30	Air Louver(Automatic)

NO.	Description
31	Electric Box
32	Display Board
33	Main Board
34	Jumper
35	Supporter
36	Terminal Board
37	Cable Clamp
38	Electric Box Assy
39	Electric Box Cover
40	Connecting Cable
41	Power Cord
42	Temperature Sensor
43	Remote Controller
44	Detecting Plate

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

10.2 Outdoor Unit

GWH07AGA-K6DNA1A/O



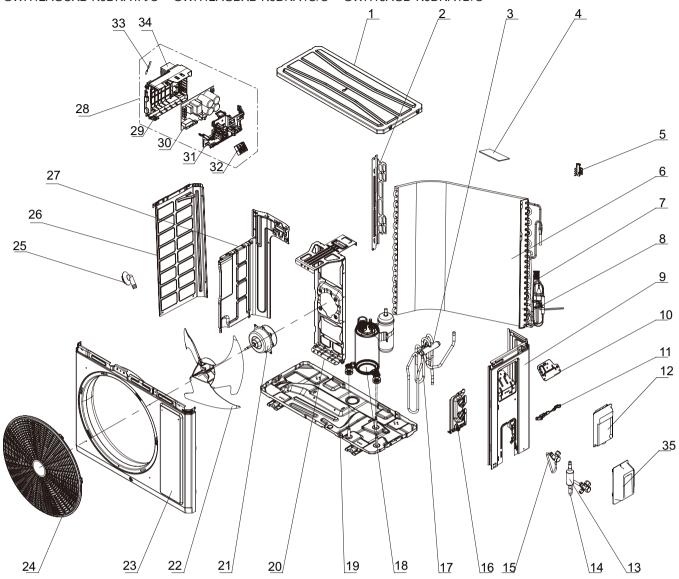
The component is only for rererence; please refer to the actual product

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	Electric Box

NO.	Description
10	Temp Sensor Sleeving
11	Main Board
12	Terminal Board
13	Silencer
14	Earthing Plate Sub-Assy
15	Handle
16	Valve Support Block
17	Right Side Plate
18	Cut off Valve 1/4

Description
Valve Support
Sensor Insert
Compressor and Fittings
4-Way Valve Assy
Chassis Sub-Assy
Cabinet
Front Grill
Axial Flow Fan
Fan Motor

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



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

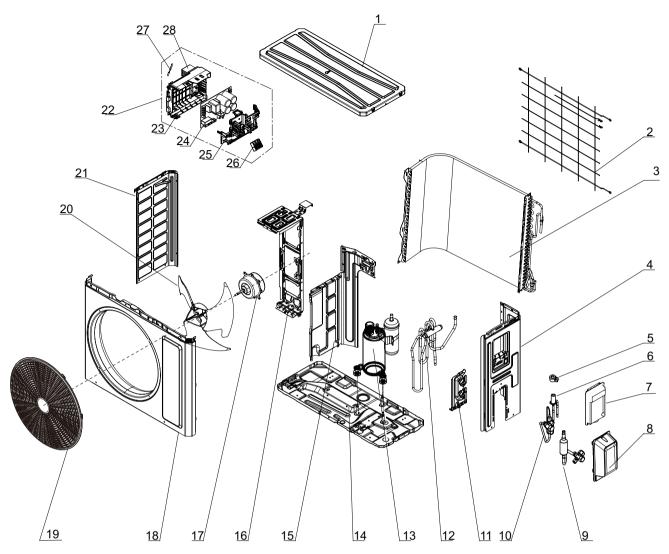
NO.	Description
1	Coping
2	Support Board(Condenser)
3	4-Way Valve Assy
4	Sponge(Condenser)
5	Temperature Sensor Support
6	Condenser Assy
7	Capillary Sub-assy
8	Sensor Insert
9	Right Side Plate
10	Earthing Plate Sub-Assy
11	Wire Clamp
12	Handle (Right)

NO.	Description
13	Silencer
14	Cut off Valve Sub-Assy
15	Cut off Valve
16	Valve Support
17	4-Way Valve
18	Compressor and Fittings
19	Chassis Sub-assy
20	Motor Support
21	Fan Motor
22	Axial Flow Fan
23	Cabinet
24	Front Grill

NO.	Description
25	Drainage Joint(ODU)
26	Left Side Plate
27	Clapboard
28	Electric Box Assy
29	Electric Box
30	Main Board
31	Electric Box Cover
32	Terminal Board
33	Temperature Sensor
34	Raidator
35	Valve Cover

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

GWH12AFC-K6DNA2F/O



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

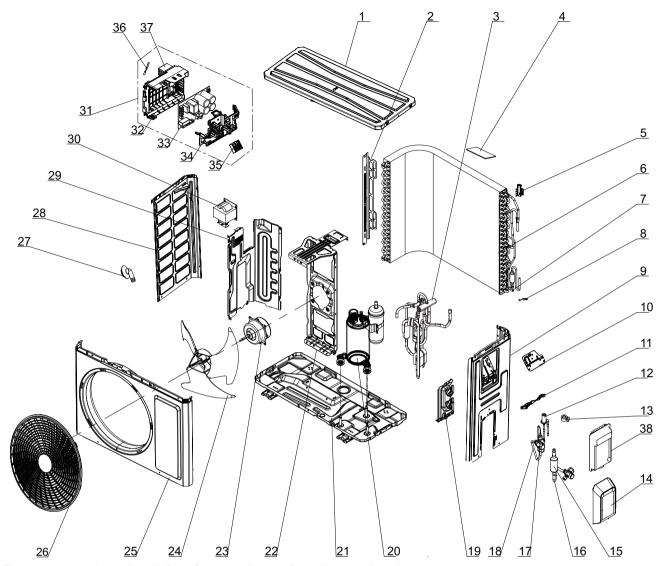
NO.	Description
1	Coping
2	Rear Grill
3	Condenser Assy
4	Right Side Plate
5	Electric Expand Valve Fitting
6	Electronic Expansion Valve
7	Handle
8	Valve Cover
9	Cut-off valve Sub-Assy
10	Cut-off valve

NO.	Description
11	Valve Support
12	4-way valve assy
13	Compressor and Fittings
14	Chassis Sub-Assy
15	Clapboard
16	Motor Support
17	Brushless DC Motor
18	Cabinet
19	Front Grill
20	Axial Flow Fan

NO.	Description
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.

GWH18AGD-K6DNA1E/O



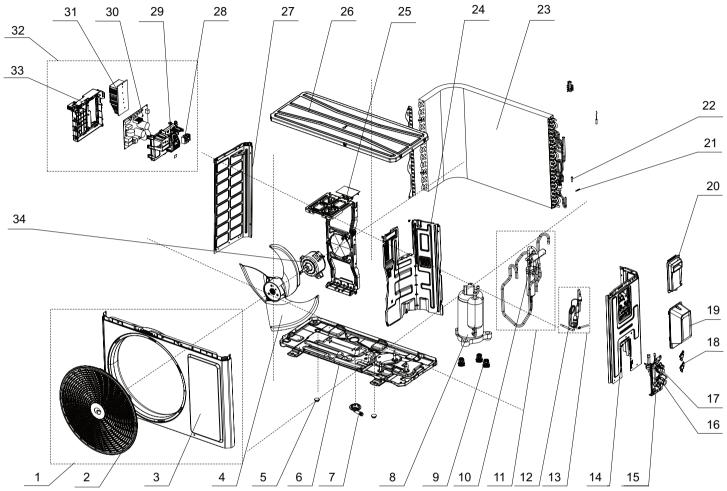
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Top Cover Assy
2	Support Board(Condenser)
3	Inhalation Tube Sub-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

NO.	Description
14	Valve Cover
15	Silencer
16	Cut off Valve Sub-Assy
17	Strainer
18	Cut off Valve Assy
19	Valve Support
20	Compressor and Fittings
21	Chassis Sub-assy
22	Motor Support
23	Brushless DC Motor
24	Axial Flow Fan
25	Cabinet
26	Front Grill

NO.	Description
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.



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

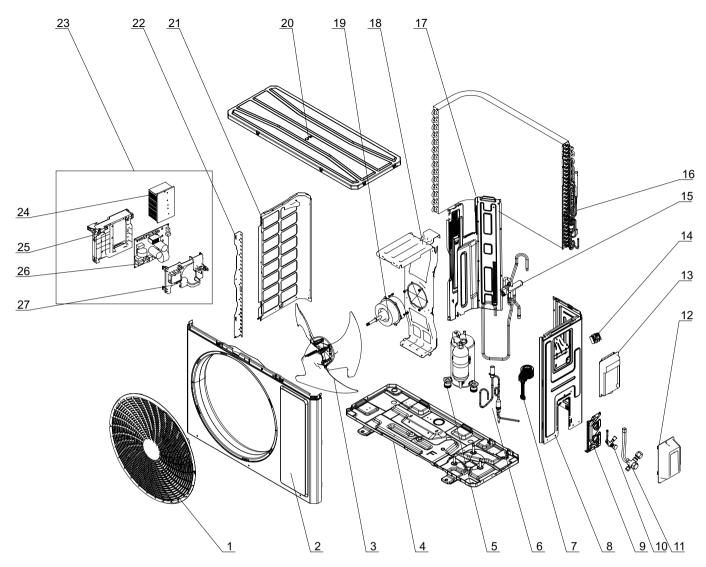
NO.	Description
1	Front Panel Assy
2	Front grill
3	Front Panel
4	Axial Flow Fan
5	Drainage hole Cap
6	Chassis Sub-assy
7	Drainage Joint
8	Compressor and Fittings
9	Compressor Gasket
10	4-Way Valve
11	4-Way Valve Assy
12	Capillary Tube

NO.	Description
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)
18	Valve Support Block
19	Valve Cover
20	handle
21	Sensor Insert
22	Temp Sensor Sleeving
23	Condenser Assy
24	Clapboard Sub-Assy

NO.	Description
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

NO.	Description
10	Cut-off Valve
11	Cut-off Valve
12	Valve Cover
13	Handle
14	Terminal Board
15	4-way valve assy
16	Condenser Assy
17	Clapboard Assy
18	Motor Support Sub-Assy

NO.	Description
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.

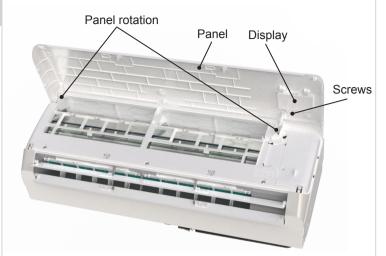
Note: Take AGD model for example.				
Step	Procedure			
Before disassemble				
Turn off the air conditioner and disconnect the power before disassemble the air conditioner.				
1. Remove filter				
Hold the handle on the filter, pull it upwards to let the clasp at the top part of the filter loose, push it forwards and then the filter can be pulled out.	Filter Handle			
2.Remove upper and lower guide louver				
Push out the plug pin on upper and lower guide louver, Bend the guide louver with hand and then separate the guide louver from the crank shaft of step motor to remove it.				

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.

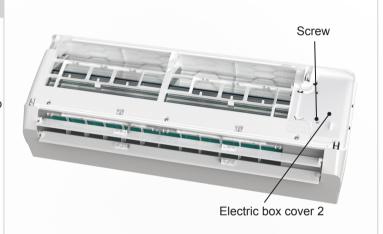
Note:

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

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Remove the screws fixing front case.

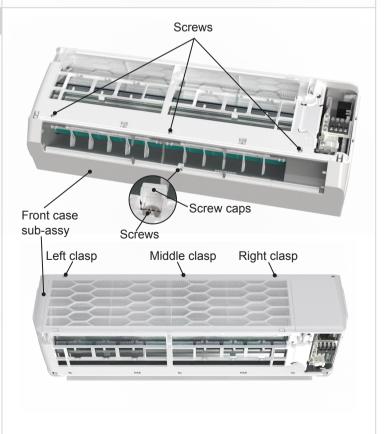
Note:

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

b

112

Loosen the clasps at left, middle and right sides of front case. Life the front case sub-assy upwards to remove it.



Step Procedure 6.Remove electric box assy Remove the screw fixing electric box assy. Step motor Electric box Indoor tube Screws assy ① Cut off the wire binder and pull out the temperature sensor b indoor tube temperature sensor. Main 2 Screw off one grounding screw. board 3 Remove the wiring terminals of motor, cold plasma generator and stepping motor. Wiring terminal of motor 4 Remove the electric box assy. ⑤ Screw off the screws that are locking each. Wire binder Wiring terminal of cold plasma generator Wiring terminal Grounding of stepping motor screw Rotate the electric box assy. Twist off the screws that are locking the wire clip and loosen the power cord. С Remove the wiring terminal of power cord. Lift up the main board and take it off. Power cord Instruction:Some wiring terminal of this products is with lock catch and other devices. The pulling method is as below: Screw Wire clip 1.Remove the soft sheath for some terminals at first, Circlip Holder 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

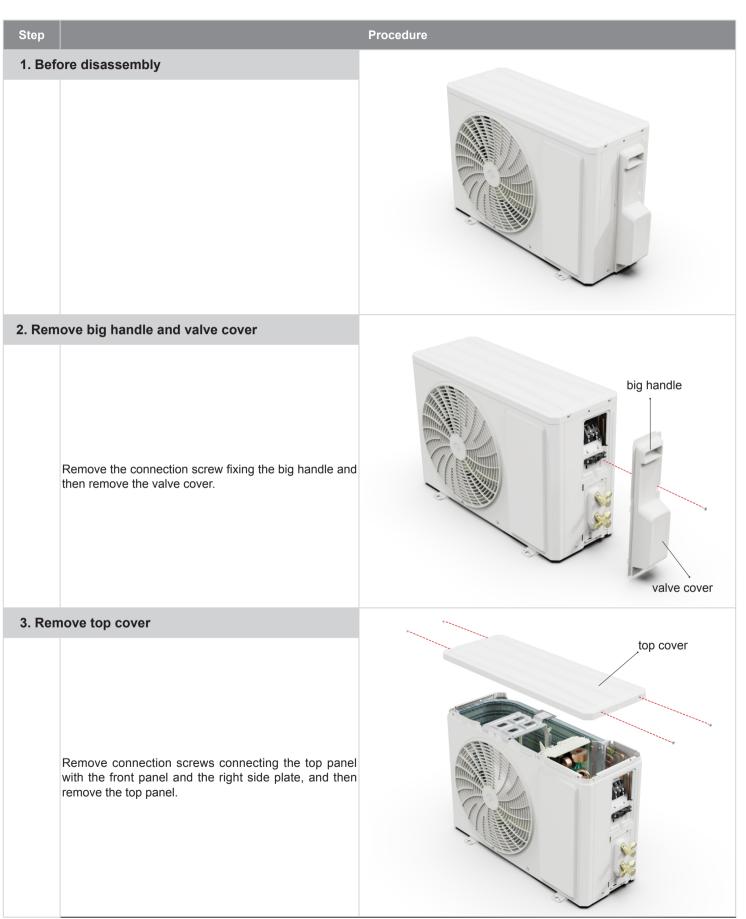
Step Procedure 7.Remove panel Remove 3 screws fixing evaporator assy. b At the back of the unit, Loosen the clasp of the connection pipe clamp and then remove the connection pipe clamp. First remove the left side of evaporator from С the groove of bottom shell and then remove the right side from the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

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

11.2 Removal Procedure of Outdoor Unit

Caution: discharge the refrigerant completely before removal.

GWH07AGA-K6DNA1A/O



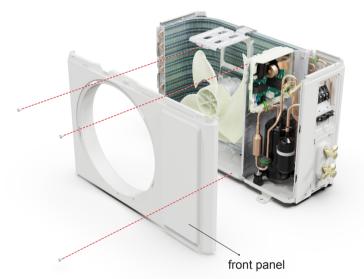
4. Remove grille

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.



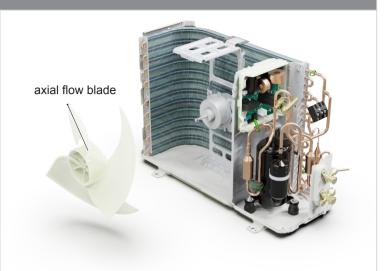
6. Remove right side plate

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

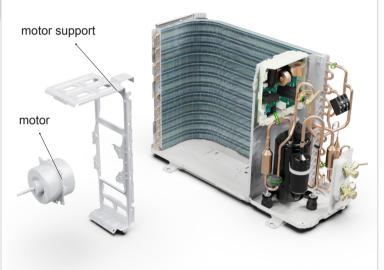
Remove the nut on the blade and then remove the axial flow blade.



8. Remove motor and motor support

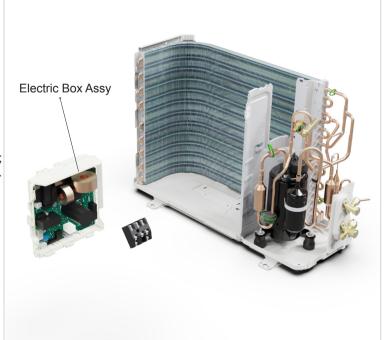
Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor.

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.

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.

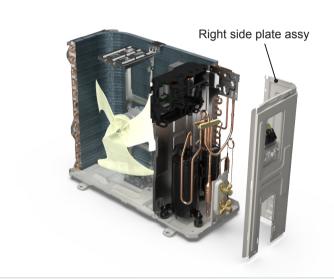
4. Remove front panel assy

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



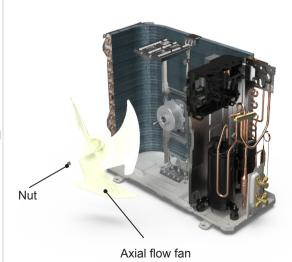
5. Remove right side plate assy

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

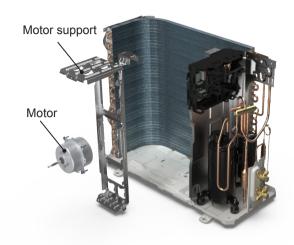
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

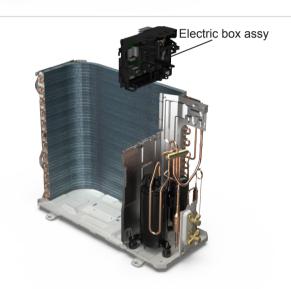
Remove the screws fixing the motor support and lift the motor support to remove it.

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



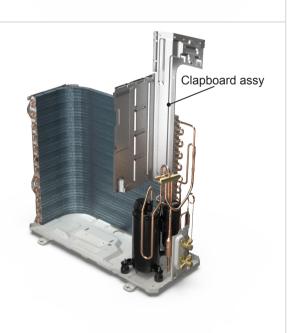
8. Remove electric box assy

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.

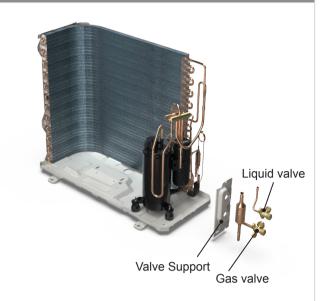


10. Remove gas valve and liquid valve

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.



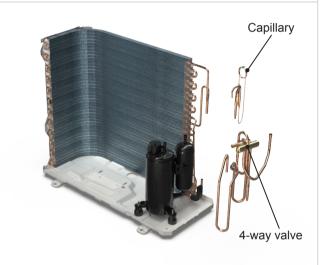
11. Remove 4-way valve and capillary

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.



Step Procedure 1. Before disassembly 2. Remove big handle and valve cover Big handle Remove the screws fixing big handle, valve cover and Valve cover then remove them. 3. Remove top cover Top cover Remove the screws fixing top panel and then remove the top panel.

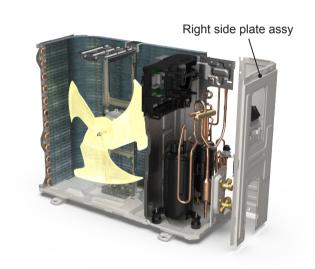
4. Remove front panel assy

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



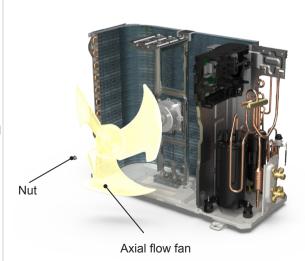
5. Remove right side plate assy

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

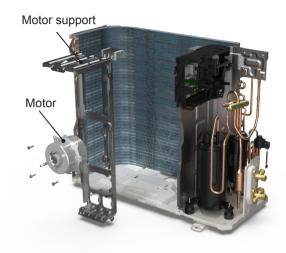
Remove the nut on the fan and then remove the axial flow fan.



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.



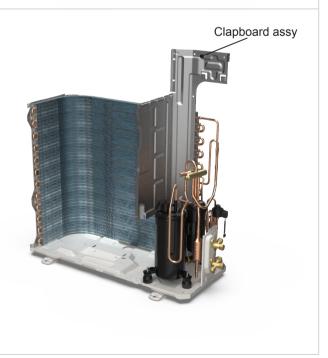
8. Remove electric box assy

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.

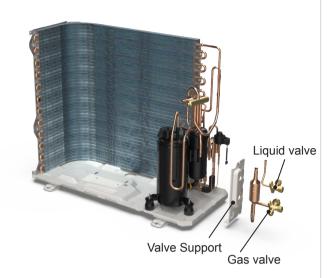


10. Remove gas valve and liquid valve

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 electric expansion valve sub-Assy

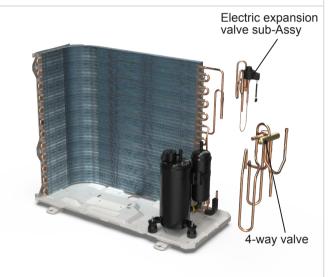
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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

Note:

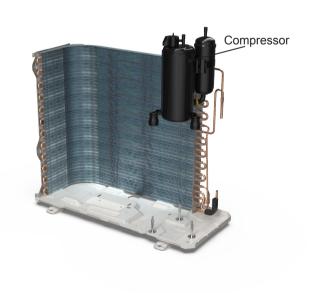
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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.



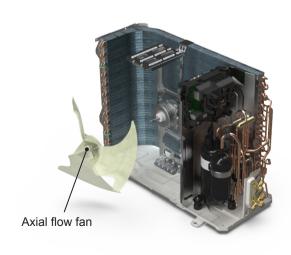
5. Remove right side plate assy

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

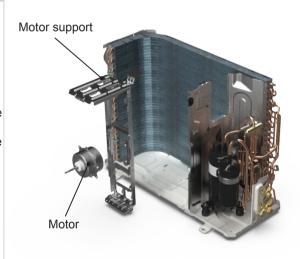
Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.



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.



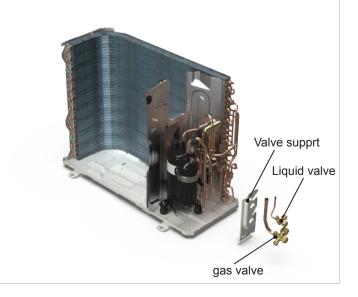
9. Remove gas valve, liquid valve and valve suppprt

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.

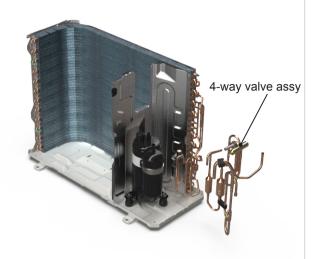


10. Remove 4-way valve assy

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.

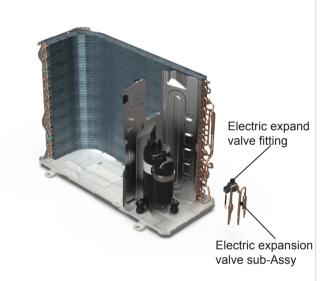


11. Remove electric expansion valve sub-Assy

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

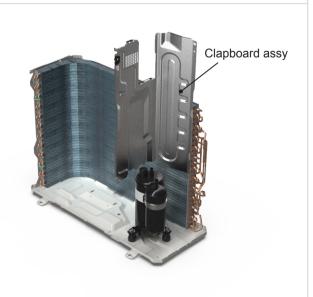
Note:

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.





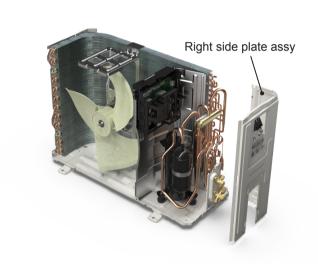
4. Remove front panel assy

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



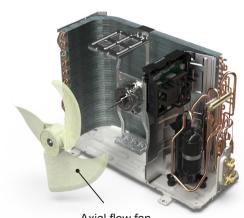
5. Remove right side plate assy

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

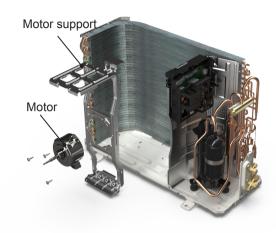
Remove the nut on the fan and then remove the axial flow fan.



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.



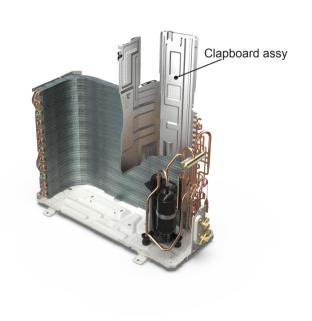
8. Remove electric box assy

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.

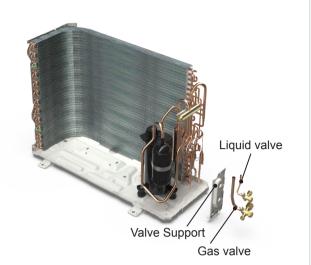


10. Remove gas valve and liquid valve

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.



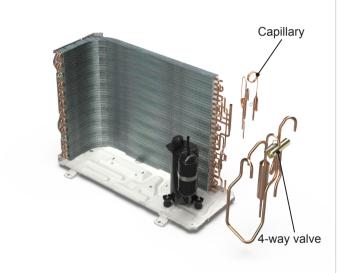
11. Remove 4-way valve and capillary

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.





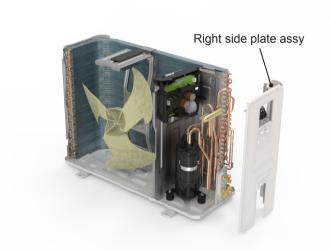
4. Remove front panel assy

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



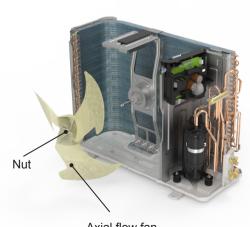
5. Remove right side plate assy

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.

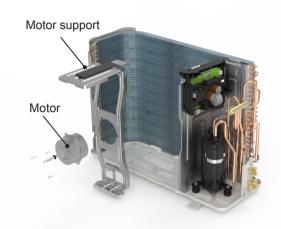


Axial flow fan

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.



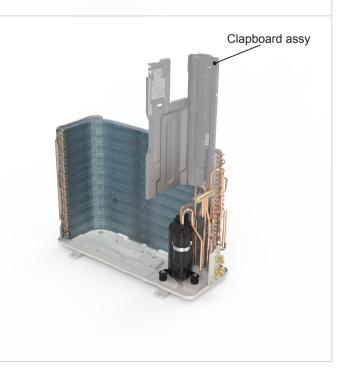
8. Remove electric box assy

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.

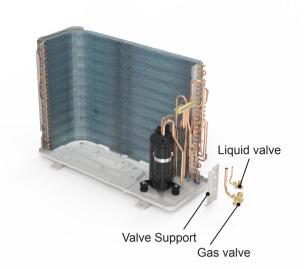


10. Remove gas valve and liquid valve

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

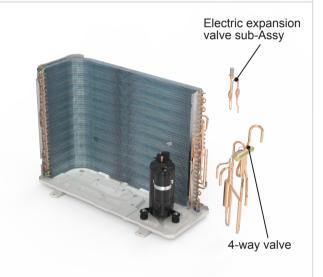
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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

Note:

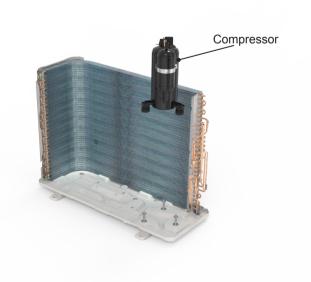
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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

•		
Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
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 temperature (°F)	Fahrenheit (°F)	Celsius (°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 temperature (°F)	Fahrenheit (°F)	Celsius (°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 themin length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.
- 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				
Piping size		Indoor unit throttle	Outdoor unit throttle	
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only(g/m)	Cooling and heating(g/m)
1/4"	3/8" or 1/2"	16	12	16
1/4" or 3/8"	5/8" or 3/4"	40	12	40
1/2"	3/4" or 7/8"	80	24	96
5/8"	1" or 1 1/4"	136	48	96
3/4"	1	200	200	200
7/8"	1	280	280	280

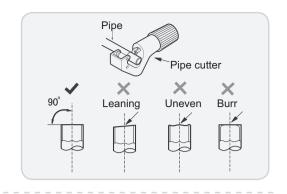
Appendix 3: Pipe Expanding Method

⚠ Note:

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

A:Cut the pip

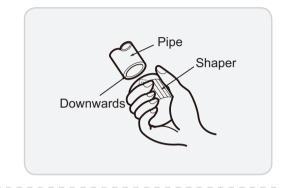
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B:Remove the burrs

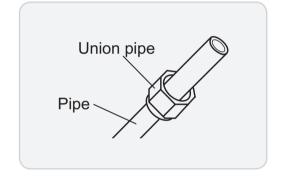
• Remove the burrs with shaper and prevent the burrs from getting into the pipe.

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.



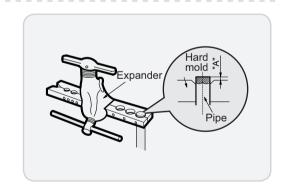
E:Expand the port

• Expand the port with expander.

⚠ Note:

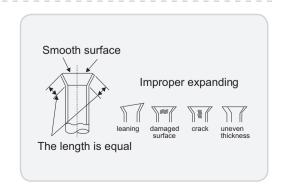
• "A" is different according to the diameter, please refer to the sheet below:

Outer diameter(mm)	A(mr	n)
Outer diameter(mm)	Max	Min
Ф6 - 6.35 (1/4")	1.3	0.7
Ф9 - 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.