



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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1. Summary

Indoor Unit:







A4 panel (Sliver)





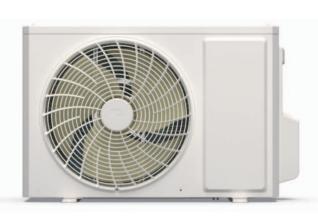


A4 panel (Black)



Outdoor Unit:

GWH07AGA-K6DNA1A/O



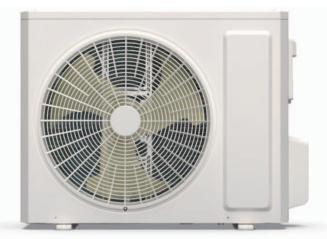
GWH09AGBXB-K6DNA1A/O GWH09AFC-K6DNA2F/O GWH09AGBXB-K6DNA1E/O GWH12ATCXB-K6DNA4G/O GWH18AGDXB-K6DNA1Z/O

GWH09AGAXB-K6DNA1B/O GWH12AFC-K6DNA2F/O GWH09ACCXB-K6DNA1G/O GWH18AGD-K6DNA1D/O



Technical Information

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



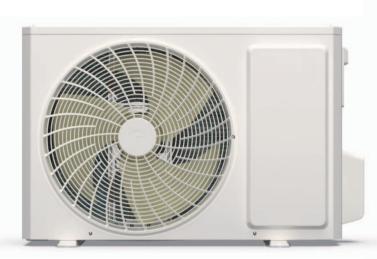
GWH18AGD-K6DNA1E/O



GWH24AGD-K6DNA1C/O

GWH24AGDXE-K6DNA1Z/O







Remote Controller:

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YAP1F7(WiFi)

YAY1F

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Model list:

IVIO	iei iist:						
No.	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1	GWH07AGA-K6DNA1A	CB385001101	GWH07AGA-K6DNA1A/I	CB385N01101	014/11074 0 4 1/0001444 /0	000514/04400	
2	GWH07AGAXA-K6DNA4A	CB558009900	GWH07AGAXA-K6DNA4A/I	CB558N09900	GWH07AGA-K6DNA1A/O	CB385W01100	
3		CB385009900		CB385N09900			
4	GWH09AGAXB-K6DNA1B	CB385009901	GWH09AGAXB-K6DNA1B/I	CB385N09901			
5		CB385009902		CB385N09902	GWH09AGAXB-K6DNA1B/O	CB385W09900	
6	GWH09AGAXB-K6DNA2B	CB543007800	GWH09AGAXB-K6DNA2B/I	CB543N07800	_		
7	GWH09AGAXB-K6DNA4B	CB558010000	GWH09AGAXB-K6DNA4B/I	CB558N10000			
8	GWH09AGBXB-K6DNA1A	CB385017100	GWH09AGBXB-K6DNA1A/I	CB385N17100	GWH09AGBXB-K6DNA1A/O	CB385W17100	
9		CB558009801		CB558N09800			
10	GWH09AGCXB-K6DNA4F	CB558009802	GWH09AGCXB-K6DNA4F/I	CB558N09802	GWH09AFC-K6DNA2F/O	CB363W02901	YAP1F7 (WiFi)
11		CB558009803		CB558N09803			(,
12	GWH09AGCXB-K6DNA1G	CB385021001	GWH09AGCXB-K6DNA1G/I	CB385N21000	CVALLOOV COVE INCENTATOR	CD 407\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
13	GWH09AGCXB-K6DNA2G	CB543009101	GWH09AGCXB-K6DNA2G/I	CB543N09100	GWH09ACCXB-K6DNA1G/O	CB497 W20001	
14		CB385017900		CB385N17900			
15	GWH12AGBXB-K6DNA1A	CB385017901	GWH12AGBXB-K6DNA1A/I	CB385N17901			
16		CB385017902		CB385N17902	GWH12AGBXB-K6DNA1A/O	CB385W17900	
17	GWH12AGBXB-K6DNA2A	CB543007700	GWH12AGBXB-K6DNA2A/I	CB543N07700			
18	GWH12AGBXB-K6DNA4A	CB558009500	GWH12AGBXB-K6DNA4A/I	CB558N09500			
19	GWH09AGBXB-K6DNA1E	CB385021200	GWH09AGBXB-K6DNA1E/I	CB385N21200	GWH09AGBXB-K6DNA1E/O	CB385W21200	
20	CW/I IAOA CRVR I/CRNIAOC	CB543005400	CMUMOA CDVD KCDNIA OC/I	CB543N05400	GWH12AGBXB-K6DNA4C/O	CB558W02600	
21	GWH12AGBXB-K6DNA2C	CB543005401	GWH12AGBXB-K6DNA2C/I	CB543N05401			YAY1F
22	GWH12AGBXB-K6DNA4C	CB558002601	GWH12AGBXB-K6DNA4C/I	CB558N02601			
23	GWH12AGBXB-K6DNA1Z	CB385020500	GWH12AGBXB-K6DNA1Z/I	CB385N20500	GWH12AGBXB-K6DNA1Z/O	CB385W20500	
24	GWH12AGCXB-K6DNA1A	CB385018000	GWH12AGCXB-K6DNA1A/I	CB385N18000	GWH12AGCXB-K6DNA1A/O	CB385W18000	
25	GWH12AGCXB-K6DNA1G	CB385021100	GWH12AGCXB-K6DNA1G/I	CB385N21100	GWH12ATCXB-K6DNA4G/O	CREOEWO6700	
26	GWH12AGCXB-K6DNA2G	CB543009200	GWH12AGCXB-K6DNA2G/I	CB543N09200	GWH12A1CAB-RODINA4G/O	CB595W06700	
27		CB558002401		CB558N02401			
28	GWH12AGC-K6DNA4F	CB558002402	GWH12AGC-K6DNA4F/I	CB558N02402		CB363W03600	
29	GWH12AGC-RODNA4F	CB558002403	GWH12AGC-RODINA4F/I	CB558N02403	GWH12AFC-K6DNA2F/O		
30		CB558002404		CB558N02400		CB363W03605	
31	GWH18AGDXB-K6DNA1Z	CB385020600	GWH18AGDXB-K6DNA1Z/I	CB385N20600	GWH18AGDXB-K6DNA1Z/O	CB385W20600	
32	CWH10ACDVB K6DNA2D	CB543004701	CWH10ACDYD K6DNA3D/I	CB543N04701			
33	GWH18AGDXB-K6DNA2D	CB543004702	GWH18AGDXB-K6DNA2D/I	CB543N04702	GWH18AGD-K6DNA1D/O	CB385W08300	YAP1F7
34	GWH18AGD-K6DNA4D	CB558000901	GWH18AGD-K6DNA4D/I	CB558N00901			(WiFi)
35		CB558009601		CB558N09600			
36	GWH18AGDXD-K6DNA4E	CB558009602	GWH18AGDXD-K6DNA4E/I	CB558N09602	GWH18AGD-K6DNA1E/O	CB385W09101	
37		CB558009603		CB558N09603			
38	CW/IIO44 CDVE I/CDNIA OC	CB543004800	CMUIOAA CDVE KODNIA OCAL	CB543N04800			
39	GWH24AGDXE-K6DNA2C	DNA2C CB543004801 GWH24AGDXE-K6DNA2C/I		CB543N04801	GWH24AGD-K6DNA1C/O	CB385W08600	
40	GWH24AGD-K6DNA4C	CB558001001	GWH24AGD-K6DNA4C/I	CB558N01001			
41	GWH24AGDXE-K6DNA1Z	CB385020700	GWH24AGDXE-K6DNA1Z/I	CB385N20700	GWH24AGDXE-K6DNA1Z/O	CB385W20700	
42		CB558009703		CB558N09700			
43	GWH24AGEXF-K6DNA4A	CB558009704	GWH24AGEXF-K6DNA4A/I	CB558N09701	GWH24AFE-K6DNA2I/O CB363W04101		
44		CB558009705	1	CB558N09702			

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

2. Specifications

2.1 Specification Sheet

Model			GWH07AGA-K6DNA1A GWH07AGAXA-K6DNA4		
Product Code			CB385001101	CB558009900	
Rated Voltage		V~	220-	240	
Power Supply	Rated Frequency	Hz	50	0	
O 0 P P .)	Phases		1		
Power Supply	y Mode		Outdoor		
Cooling Capa	acity	W	220	00	
Heating Capa	acity	W	240	00	
Cooling Powe	er Input	W	59	00	
Heating Powe	er Input	W	59	00	
Cooling Curre	ent Input	А	2.	9	
Heating Curre	ent Input	Α	2.	9	
Rated Input		W	130	00	
Rated Coolin	g Current	А	5	j	
Rated Heatin	g Current	А	6	3	
Air Flow Volu	ime	m³/h	500/470/450/42	20/310/290/250	
Dehumidifyin	g Volume	L/h	0.	6	
EER		W/W	3.7	73	
COP		W/W	4.0	07	
SEER			6.	6	
SCOP(Avera	ge/Warmer/Colder)		4.0/4.8/-		
Application Area		m ²	10-16		
	Model		GWH07AGA-K6DNA1A/I	GWH07AGAXA-K6DNA4A/I	
	Product Code		CB385N01101	CB558N09900	
	Fan Type		Cross-flow		
	Fan Diameter Length(DXL)	mm	Ф93>	¢505	
	Cooling Speed	r/min	1300/1200/1120/1	050/920/800/750	
	Heating Speed	r/min	1300/1200/1120/1	050/950/850/800	
	Fan Motor Power Output	W	20	0	
	Fan Motor RLA	А	0.2	22	
	Fan Motor Capacitor	μF	1		
	Evaporator Form		Aluminum Fin-copper Tube		
	Evaporator Pipe Diameter	mm	Φ	5	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1	.4	
	Evaporator Coil Length (LXDXW)	mm	509×22.	8×266.7	
	Swing Motor Model		MP24AK/MP24BA	MP24AK/MP24BA/MP24HF	
	Swing Motor Power Output	W	1.5/1.5	1.5/1.5/1.5	
	Fuse Current	Α	3.1	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	704X26	-	
	Dimension of Carton Box (LXWXH)	mm	748X31	6X247	
	Dimension of Package (LXWXH)	mm	753X33		
	Net Weight	kg	7.		
	Gross Weight	kg	9		

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	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.	А	1
	Compressor RLA	А	3
	Compressor Power Input	W	633
	Compressor Overload Protector		1
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	950
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	А	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	1400
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф350
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		1
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X525
	Net Weight	kg	21
	Gross Weight	kg	23
	Refrigerant		R32
	Refrigerant Charge	kg	0.45
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Pipe	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

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Model			GWH09AGAXB-K6DNA1B GWH09AGAXB-K6DNA2B GWH09AGAXB-K6DNA4B	GWH09AGAXB-K6DNA1B	
Product Code	9		CB385009900/CB385009902 CB543007800 CB558010000	CB385009901	
	Rated Voltage	V~	220-	240	
Power Supply	Rated Frequency	Hz	50)	
Оцрріу	Phases		1		
Power Supply	y Mode		Outd	loor	
Cooling Capa	acity	W	250	00	
Heating Capa	acity	W	280	00	
Cooling Powe	er Input	W	68	0	
Heating Pow	er Input	W	73	0	
Cooling Curre	ent Input	А	3.	1	
Heating Curre	ent Input	А	3.:	2	
Rated Input		W	150	00	
Rated Coolin	g Current	А	6		
Rated Heatin	g Current	А	7.:	5	
Air Flow Volu	ime	m³/h	500/470/430/39	0/320/270/250	
Dehumidifyin	g Volume	L/h	0.	6	
EER	-	W/W	3.6	88	
СОР		W/W	3.8	34	
SEER			6.	6	
SCOP(Avera	ge/Warmer/Colder)		4.1/5.1/-		
Application A	rea	m ²	10-	16	
	Model		GWH09AGAXB-K6DNA1B/I GWH09AGAXB-K6DNA2B/I GWH09AGAXB-K6DNA4B/I	GWH09AGAXB-K6DNA1B/I	
	Product Code		CB385N09900/CB385N09902 CB543N07800 CB558N10000	CB385N09901	
	Fan Type		Cross	-flow	
	Fan Diameter Length(DXL)	mm	Ф93×	505	
	Cooling Speed	r/min	1300/1200/1120/1	050/920/800/750	
	Heating Speed	r/min	1300/1200/1120/1	050/950/850/800	
	Fan Motor Power Output	W	20)	
	Fan Motor RLA	Α	0.2	22	
	Fan Motor Capacitor	μF	1		
	Evaporator Form		Aluminum Fin-	-copper Tube	
Indoor Unit	Evaporator Pipe Diameter	mm	Ф:	• • •	
	Evaporator Row-fin Gap	mm	2-1	.4	
	Evaporator Coil Length (LXDXW)	mm	509×22.8		
	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: 38/36/34/32/28/25/21		
	Sound Power Level	dB (A)	Cooling: 55/48/46/44/40/37/33	<u> </u>	
	Dimension (WXHXD)	mm	704X26	-	
	Dimension of Carton Box (LXWXH)	mm	748X31		
	Dimension of Package (LXWXH)	mm	753X33		
	Net Weight	kg	7.5		
		9	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.	A	15
	Compressor RLA	A	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter		Aluminum Fin-copper Tube Φ7
		mm	
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	A	0.4
	Fan Motor Capacitor	μF	1050
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for 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
Com: - ::	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
50	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model			GWH09AGBXB-K6DNA1A
Product Code	Product Code		CB385017100
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
- Cupp.y	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	2700
Heating Capa	acity	W	2800
Cooling Powe	er Input	W	725
Heating Power	er Input	W	685
Cooling Curre	ent Input	А	3.45
Heating Curre	ent Input	А	3.19
Rated Input		W	1500
Rated Coolin	g Current	А	6
Rated Heatin	g Current	А	7.5
Air Flow Volu	me	m³/h	550/520/480/400/340/310/280
Dehumidifyin	g Volume	L/h	0.8
EER	-	W/W	3.72
COP		W/W	4.09
SEER			6.8
SCOP(Avera	ge/Warmer/Colder)		4.2/5.3/-
Application A	rea	m ²	10-16
	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
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling: 40/37/35/33/29/26/21 Heating: 40/37/35/33/30/26/24
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/41/37/34 Heating: 55/49/47/45/42/38/35
	Dimension (WXHXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

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	Outdoor Unit Model		GWH09AGBXB-K6DNA1A/O
	Outdoor Unit Product Code		CB385W17100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	15
	Compressor RLA	A	2.56
	-	W	757
	Compressor Power Input		/5/
	Compressor Overload Protector		,
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.4
	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		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
	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-K6DNA1E
Product Code			CB385021200
Rated Voltage		V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	2700
Heating Capa	acity	W	2800
Cooling Powe	er Input	W	725
Heating Power	er Input	W	685
Cooling Curre	ent Input	Α	3.45
Heating Curre	ent Input	Α	3.19
Rated Input		W	1500
Rated Cooling	g Current	Α	6
Rated Heating	g Current	Α	7.5
Air Flow Volu	me	m³/h	550/520/480/400/340/310/280
Dehumidifying	g Volume	L/h	0.8
EER		W/W	3.72
COP		W/W	4.09
SEER			6.8
SCOP(Average	ge/Warmer/Colder)		4.2/5.3/-
Application A	•	m ²	10-16
	Model		GWH09AGBXB-K6DNA1E/I
	Product Code		CB385N21200
	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	Α	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
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:40/37/35/33/29/26/21 Heating:40/37/35/33/30/26/24
	Sound Power Level	dB (A)	Cooling:57/49/47/45/41/37/34 Heating:57/49/47/45/42/38/35
	Dimension (WXHXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	, , ,		
	Net Weight	kg	8

	Outdoor Unit Model		GWH09AGBXB-K6DNA1E/O
	Outdoor Unit Product Code		CB385W21200
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	15.00
	Compressor RLA	A	2.56
	•	W	757
	Compressor Overload Protector		/5/
	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	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.40
	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		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
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
i ibe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model			GWH09AGCXB-K6DNA4F
Product Code			CB558009801/CB558009802/CB558009803
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
ouppi,	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	2700
Heating Capa	acity	W	3000
Cooling Powe	er Input	W	695
Heating Powe	er Input	W	700
Cooling Curre	ent Input	А	3.1
Heating Curre	ent Input	А	3.2
Rated Input		W	1400
Rated Cooling	g Current	А	6
Rated Heatin	g Current	А	6.2
Air Flow Volu	me	m³/h	610/570/540/470/440/420/390
Dehumidifying	g Volume	L/h	0.8
EER		W/W	3.89
COP		W/W	4.29
SEER			7.5
SCOP(Average	ge/Warmer/Colder)		4.2/5.3/3.4
Application A		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	А	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	А	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
	J ()		
	Net Weight	kg	9.5

	Outdoor Unit Model		GWH09AFC-K6DNA2F/O
	Outdoor Unit Product Code		CB363W02901
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	15
	Compressor RLA	A	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/ 30.0
	Throttling Method		, Capillary
	Set Temperature Range	°C	16~30
		°C	-15~50
	Cooling Operation Ambient Temperature Range	°C	-25~30
	Heating Operation Ambient Temperature Range		
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.4
	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)	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
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
i ipe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Technical Information • • • • • • • • 13

Model			GWH09AGCXB-K6DNA1G GWH09AGCXB-K6DNA2G
Product Code	e		CB385021001 CB543009101
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Suppl	y Mode		Outdoor
Cooling Capa	-	W	2700
Heating Capa	acity	W	3000
Cooling Pow	er Input	W	670
Heating Pow	er Input	W	674
Cooling Curr	ent Input	А	3.5
Heating Curr	ent Input	А	3.5
Rated Input		W	1400
Rated Coolin	ng Current	А	6
Rated Heatin	ng Current	А	6.5
Air Flow Volu	ıme	m³/h	580/530/500/450/350/290/230/180
Dehumidifyin	ng Volume	L/h	0.8
EER		W/W	4.03
COP		W/W	4.45
SEER			8.5
SCOP(Average/Warmer/Colder)			4.6/5.7/-
Application A	rea	m ²	12-18
	Model		GWH09AGCXB-K6DNA1G/I GWH09AGCXB-K6DNA2G/I
	Product Code		CB385N21000 CB543N09100
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98×630
	Cooling Speed	r/min	1200/1100/1050/950/800/700/650/500
	Heating Speed	r/min	1200/1100/1040/950/900/880/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	А	0.22
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/26/23/22/18 Heating:38/36/34/30/28/27/26
	Sound Power Level	dB (A)	Cooling:54/50/48/45/40/37/36/32 Heating:54/50/48/44/42/41/40
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

	Outdoor Unit Model		GWH09ACCXB-K6DNA1G/O
	Outdoor Unit Product Code		CB497W26501
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-N082zC170
	Compressor Oil		RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.4
	Compressor Power Input	W	630
	Compressor Overload Protector		/
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
		°C	-15~50
	Cooling Operation Ambient Temperature Range	°C	
	Heating Operation Ambient Temperature Range		-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.4
	Fan Motor Capacitor	μF	<u> </u>
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		l
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	23.5
	Gross Weight	kg	26
	Refrigerant		R32
	Refrigerant Charge	kg	0.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
ı ıhe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Technical Information • • • • • • • • 15

Model			GWH12AGBXB-K6DNA1A GWH12AGBXB-K6DNA2A GWH12AGBXB-K6DNA4A	GWH12AGBXB-K6DNA1A
Product Code			CB385017900/CB385017902 CB543007700 CB558009500	CB385017901
Rated Voltage		V~	220-	240
Power Supply	Rated Frequency	Hz	50)
Оирріу	Phases		1	
Power Supply	y Mode		Outd	oor
Cooling Capa	acity	W	320	00
Heating Capa	acity	W	340	00
Cooling Powe	er Input	W	99	1
Heating Pow	er Input	W	91	6
Cooling Curre	ent Input	А	4.4	4
Heating Curre	ent Input	А	4	
Rated Input		W	150	00
Rated Coolin	g Current	А	6	
Rated Heatin		Α	7.5	5
Air Flow Volu	•	m³/h	590/520/480/40	
Dehumidifyin		L/h	1.4	
EER	_	W/W	3.2	
COP		W/W	3.7	
SEER			6.	1
	ge/Warmer/Colder)		4.0/5.1/-	
Application A		m ²	15-22	
11	Model		GWH12AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA2A/I GWH12AGBXB-K6DNA	
			GWH12AGBXB-K6DNA4A/I	
	Product Code		CB385N17900/CB385N17902 CB543N07700 CB558N09500	CB385N17901
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф93×580	
	Cooling Speed	r/min	1350/1200/1120/1050 /950/850/750	
	Heating Speed	r/min	1350/1200/1120/1	050/990/920/850
	Fan Motor Power Output	W	20)
	Fan Motor RLA	А	0.2	2
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin-	copper Tube
Indoor Unit	Evaporator Pipe Diameter	mm	Ф!	5
	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/	
	Dimension (WXHXD)	mm	779X260X185	
	Dimension of Carton Box (LXWXH)	mm	823X31	
	Dimension of Package (LXWXH)	mm	828X33	
	Net Weight	kg	8	
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	Outdoor Unit Model		GWH12AGBXB-K6DNA1A/O
	Outdoor Unit Product Code		CB385W17900
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO,LTD.
	Compressor Model		QXF-N088zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	A	3.60
	Compressor Power Input	W	758
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
		°C	-15~43
	Cooling Operation Ambient Temperature Range Heating Operation Ambient Temperature Range	°C	-15~43 -15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
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	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4"
Connection	Outer Diameter Gas Pipe	inch	3/8"
Pipe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12AGBXB-K6DNA4C GWH12AGBXB-K6DNA2C	GWH12AGBXB-K6DNA2C	
Product Code)		CB558002601 CB543005401	CB543005400	
Rated Voltage		V~	220-240		
Power Supply	Rated Frequency	Hz	50		
Cuppiy	Phases		1		
Power Supply	y Mode		Outo	loor	
Cooling Capa	acity	W	350	00	
leating Capa	acity	W	350	00	
Cooling Power	er Input	W	108	33	
leating Pow	er Input	W	91	8	
Cooling Curre	ent Input	Α	4.9	97	
leating Curr	•	Α	4,2	22	
ated Input	·	W	155	 50	
Rated Coolin	a Current	А	6.2	21	
ated Heatin	-	Α	6.8		
ir Flow Volu	-	m³/h	590/520/480/40		
ehumidifyin		L/h	1.		
ER	g voidino	W/W	3.2		
OP		W/W	3.8		
SEER) i	
	ge/Warmer/Colder)				
application A		m ²		22	
урпсаноп А			GWH12AGBXB-K6DNA4C/I		
	Model		GWH12AGBXB-K6DNA2C/I	GWH12AGBXB-K6DNA2C/I	
	Product Code		CB558N02601 CB543N05401	CB543N05400	
	Fan Type		Cross	-flow	
	Fan Diameter Length(DXL)	mm	Ф93×	580	
	Cooling Speed	r/min	1350/1200/1120/1050/950/850/750		
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850		
	Fan Motor Power Output	W	20)	
	Fan Motor RLA	А	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		MP24HF/MP24BA/MP24AK	MP24BA/MP24AK	
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5	
	Fuse Current	A	3.1		
	Sound Pressure Level	dB (A)			
	Sound Power Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 43/39/37/34/33/30/2 Cooling: 56/49/47/45/42/38/36 Heating: 53/49/47/44/43/40/3		
	Dimension (WXHXD)	mm	779X26		
	Dimension of Carton Box (LXWXH)	mm	823X31		
	Dimension of Package (LXWXH)	mm	828X33		
	Net Weight		8.		
	-	kg			
	Gross Weight	kg	1(J	

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	Outdoor Unit Model		GWH12AGBXB-K6DNA4C/O
	Outdoor Unit Product Code		CB558W02600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.4
	Compressor Power Input	W	/
	Compressor Overload Protector		1
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~45 -15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	 mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	·	mm	· · · · -
	Condenser Coil Length (LXDXW)	mm	677×19.05×528
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	28
Unit	Fan Motor RLA	A	0.35
	Fan Motor Capacitor	μF	2.5
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	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
Connactic	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-K6DNA1Z
Product Code	Product Code		CB385020500
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Сарріу	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	3200
Heating Capa	acity	W	3400
Cooling Power	er Input	W	991
Heating Powe	er Input	W	916
Cooling Curre	ent Input	Α	4.4
Heating Curre	ent Input	А	4
Rated Input		W	1500
Rated Cooling	g Current	Α	6
Rated Heatin	g Current	Α	7.5
Air Flow Volu	me	m³/h	590/520/480/400/350/320/280
Dehumidifyin	g Volume	L/h	1.4
EER	-	W/W	3.23
COP		W/W	3.71
SEER			6.1
SCOP(Avera	SCOP(Average/Warmer/Colder)		4.0/5.1/-
Application A	rea	m ²	15-22
	Model		GWH12AGBXB-K6DNA1Z/I
	Product Code		CB385N20500
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф93×580
	Cooling Speed	r/min	1350/1200/1120/1050/950/850/750
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
	Swing Motor Model		MP24BA/MP24AK
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 41/37/35/33/31/28/25
	Sound Power Level	dB (A)	Cooling: 57/49/47/45/42/38/36 Heating: 53/49/47/45/43/40/37
	Dimension (WXHXD)	mm	779X260X185
	Dimension of Carton Box (LXWXH)	mm	823X316X247
	Dimension of Package (LXWXH)	mm	828X332X258
	Net Weight	kg	8
	Gross Weight	kg	9.5

	Outdoor Unit Model		GWH12AGBXB-K6DNA1Z/O
	Outdoor Unit Product Code		CB385W20500
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXF-N088zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	А	1
	Compressor RLA	A	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	Ф7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor	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		Ф400
		mm	
	Defrosting Method Climate Type		Automatic Defrosting T1
	Isolation		
			IDV4
	Moisture Protection Permissible Excessive Operating Pressure for		IPX4
	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	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
-r-*	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12AGCXB-K6DNA1A
Product Code	Product Code		CB385018000
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Сарріу	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	3200
Heating Capa	acity	W	3400
Cooling Powe	er Input	W	933
Heating Powe	er Input	W	872
Cooling Curre	ent Input	А	4.14
Heating Curre	ent Input	А	3.87
Rated Input		W	1500
Rated Cooling	g Current	А	6.5
Rated Heatin	g Current	А	7.5
Air Flow Volu	me	m³/h	680/620/560/490/450/420/390
Dehumidifyin	g Volume	L/h	1.4
EER		W/W	3.43
СОР		W/W	3.9
SEER			6.5
SCOP(Avera	SCOP(Average/Warmer/Colder)		4.1/5.1/-
Application A		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	А	0.3
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/1.5
	Fuse Current	А	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

	Outdoor Unit Model		GWH12AGCXB-K6DNA1A/O
	Outdoor Unit Product Code		CB385W18000
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXF-N088zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3.60
	Compressor Power Input	W	758
	Compressor Overload Protector		/ /
	Throttling Method		
	Set Temperature Range	°C	16~30
		°C	-15~43
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range		
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.40
	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow Axial-flow
	Fan Diameter	mm	400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.57
	Connection Pipe 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 ihe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

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Model			GWH12AGCXB-K6DNA1G GWH12AGCXB-K6DNA2G
Product Cod	e		CB385021100 CB543009200
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supp	ly Mode		Outdoor
Cooling Cap	acity	W	3200
Heating Cap	acity	W	3400
Cooling Pow	er Input	W	842
Heating Pow	er Input	W	895
Cooling Curr	ent Input	Α	4.1
Heating Curr	ent Input	А	4.3
Rated Input		W	1500
Rated Coolir	ng Current	А	6.3
Rated Heatir	ng Current	А	7.2
Air Flow Volu	ume	m³/h	680/620/560/490/450/420/390/220
Dehumidifyir	ng Volume	L/h	1.4
EER		W/W	3.80
COP		W/W	3.80
SEER			8.5
SCOP(Average/Warmer/Colder)			4.1/5.1/-
Application A	Area	m ²	15-22
	Model		GWH12AGCXB-K6DNA1G/I GWH12AGCXB-K6DNA2G/I
	Product Code		CB385N21100 CB543N09200
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98×630
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/750/500
	Heating Speed	r/min	1350/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	15
	Fan Motor RLA	А	0.4
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8
	Swing Motor Model		MP24BA/MP24AK/MP24HF
	Swing Motor Power Output	W	1.5/1.5/
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling:42/38/35/32/29/27/24/19 Heating:41/38/35/32/30/27/25
	Sound Power Level	dB (A)	Cooling:60/52/47/44/41/39/36/31 Heating:58/50/47/44/42/39/37
	Dimension (WXHXD)	mm	825X293X196
	Dimension of Carton Box (LXWXH)	mm	870X349X257
	Dimension of Package (LXWXH)	mm	875X365X268
	Net Weight	kg	9.5
	Gross Weight	kg	11.5

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	Outdoor Unit Model		GWH12ATCXB-K6DNA4G/O
	Outdoor Unit Product Code		CB595W06700
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXF-A098zC170H(Improvement)
	Compressor Oil		RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	4.2
	Compressor Power Input	W	885
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	Cooling:16~30 Heating:8~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
		°C	-15~30
	Heating Operation Ambient Temperature Range		
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	810
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.4
	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)	52
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	27
	Gross Weight	kg	29.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.75
	Connection Pipe 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 ipe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12AGC-K6DNA4F	
Product Code			CB558002401/CB558002402/CB558002403	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Phases			1	
Power Supply	y Mode		Outdoor	
Cooling Capa	acity	W	3510	
Heating Capa	acity	W	3810	
Cooling Power	er Input	W	962	
Heating Powe	er Input	W	953	
Cooling Curre	ent Input	А	4.3	
Heating Curre	ent Input	А	4.6	
Rated Input		W	1550	
Rated Cooling	g Current	А	6.2	
Rated Heatin	g Current	А	6.9	
Air Flow Volu	me	m³/h	680/620/560/490/450/420/390	
Dehumidifying	g Volume	L/h	1.4	
EER		W/W	3.65	
COP		W/W	4.00	
SEER			7.1	
SCOP(Average	ge/Warmer/Colder)		4.1/5.2/3.1	
Application A		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	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8	
	Swing Motor Model		MP24BA/MP24AK/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/1.5	
	Fuse Current	А	3.15	
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/32/30/27/24 Heating: 40/36/34/32/30/27/24	
	Sound Power Level	dB (A)	Cooling: 56/49/47/44/42/39/36 Heating: 51/46/44/42/40/37/34	
	Dimension (WXHXD)	mm	825X293X196	
	Dimension of Carton Box (LXWXH)	mm	870X349X257	
	Dimension of Package (LXWXH)	mm	875X365X268	
	, , , , ,			
	Net Weight	kg	9.5	

	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	Rolary /
	Compressor RLA	A	4.4
		W	/
	Compressor Power Input Compressor Overload Protector		1
	·		Cleatron evancion valvo
	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
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	Α	0.4
	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)	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
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
i ipe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12AGC-K6DNA4F	
Product Code			CB558002404	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
очры	Phases		1	
Power Supply	y Mode		Outdoor	
Cooling Capa	acity	W	3510	
Heating Capa	acity	W	3810	
Cooling Powe	er Input	W	962	
Heating Powe	er Input	W	953	
Cooling Curre	ent Input	А	4.3	
Heating Curre	ent Input	А	4.6	
Rated Input		W	1550	
Rated Cooling	g Current	А	6.2	
Rated Heatin	g Current	А	6.9	
Air Flow Volu	me	m³/h	680/620/560/490/450/420/390	
Dehumidifyin	g Volume	L/h	1.40	
EER		W/W	3.649	
COP		W/W	3.998	
SEER			7.1	
SCOP(Average/Warmer/Colder)			4.1/5.2/3.1	
Application Area		m ²	16-24	
	Model		GWH12AGC-K6DNA4F/I	
	Product Code		CB558N02400	
	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	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	
	Evaporator Coil Length (LXDXW)	mm	634×22.8×304.8	
	Swing Motor Model		MP24BA/MP24AK/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/	
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling:41/37/35/32/30/27/24 Heating:40/36/34/32/30/27/24	
	Sound Power Level	dB (A)	Cooling:56/49/47/44/42/39/36 Heating:51/46/44/42/40/37/34	
	Dimension (WXHXD)	mm	825X293X196	
	Dimension of Carton Box (LXWXH)	mm	870X349X257	
	Dimension of Package (LXWXH)	mm	875X365X268	
	Net Weight	kg	9.5	
	Gross Weight	kg	9.5	

	Outdoor Unit Model		GWH12AFC-K6DNA2F/O
	Outdoor Unit Product Code		CB363W03605
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	
	Compressor RLA	A	4.4
	Compressor Power Input	W	
	Compressor Overload Protector		, , , , , , , , , , , , , , , , , , ,
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter		Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	·	mm	
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	A	0.40
	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		l l
	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
0	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
i ipo	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

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Model			GWH18AGDXB-K6DNA1Z	
Product Code			CB385020600	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases		1	
Power Supply	/ Mode		Outdoor	
Cooling Capa	city	W	4600	
Heating Capa	icity	W	5200	
Cooling Powe	er Input	W	1355	
Heating Powe	er Input	W	1340	
Cooling Curre	ent Input	Α	5.9	
Heating Curre	ent Input	А	5.8	
Rated Input		W	1900	
Rated Cooling	g Current	А	8	
Rated Heating	g Current	Α	9	
Air Flow Volur	me	m³/h	910/850/780/740/700/650/610	
Dehumidifying	g Volume	L/h	1.80	
EER		W/W	3.39	
COP		W/W	3.88	
SEER			6.4	
SCOP(Average	ge/Warmer/Colder)		4.0/5.1/-	
Application Ar		m ²	21-31	
	Model		GWH18AGDXB-K6DNA1Z/I	
	Product Code		CB385N20600	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	106×739	
-	Cooling Speed	r/min	1230/1050/980/900/850/800/750	
	Heating Speed	r/min	1200/1050/980/900/850/800/750	
	Fan Motor Power Output	W	35	
-	Fan Motor RLA	Α	0.45	
-	Fan Motor Capacitor	μF	2.5	
-	Evaporator Form		Aluminum Fin-copper Tube	
-	Evaporator Pipe Diameter	mm	Φ5	
	Evaporator Row-fin Gap	mm	2-1.3	
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9	
	Swing Motor Model		MP24AK/MP24BA/MP24HF	
	Swing Motor Power Output	W	1.5/1.5 /1.5	
	Fuse Current	Α	3.15A	
	Sound Pressure Level	dB (A)	Cooling:44/39/37/34/32/30/29 Heating:44/40/37/34/32/30/29	
	Sound Power Level	dB (A)	Cooling:59/54/52/49/47/45/44 Heating:59/55/52/49/47/45/44	
	Dimension (WXHXD)	mm	982X311X221	
	Dimension of Carton Box (LXWXH)	mm	1039X377X287	
	Dimension of Package (LXWXH)	mm	1044X385X297	
	J (/			
	Net Weight	kg	13.5	

Outdoor Unit Model		GWH18AGDXB-K6DNA1Z/O
		CB385W20600
		ZHUHAI LANDA COMPRESSOR CO. LTD.
•		FTz-AN108ACBD
· · · · · · · · · · · · · · · · · · ·		FW68DA or equivalent
· · · · · · · · · · · · · · · · · · ·		Rotary
		19
•		4.4
· · · · · · · · · · · · · · · · · · ·		952
		/
<u>'</u>		Capillary
-		16~30
· · · · · · · · · · · · · · · · · · ·	-	-15~43
		-15~24
		Aluminum Fin-copper Tube
		Φ7
·		2-1.4
•		
		700×38.1×528
•		900
<u> </u>		30.00
		0.4
•	-	/
		1950
		Axial-flow
	mm	Ф400
-		Automatic Defrosting
		T1
		<u> </u>
		IPX4
the Discharge Side	MPa	4.3
the Suction Side	MPa	2.5
		55
	dB (A)	65
	mm	732X555X330
·	mm	791X373X590
	mm	794X376X615
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
Outer Diameter Gas Pipe	inch	3/8
Max Distance Height	m	10
Max Distance Height Max Distance Length	m m	10 25
	Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level Sound Power Level Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe	Outdoor Unit Product Code Compressor Manufacturer Compressor Model Compressor Oil Compressor Type Compressor LRA. A Compressor Power Input Compressor Overload Protector Throttling Method Set Temperature Range Cooling Operation Ambient Temperature Range Cooldenser Form Condenser Form Condenser Pipe Diameter Condenser Rows-fin Gap Condenser Coil Length (LXDXW) Fan Motor Speed Fan Motor RLA Fan Motor Capacitor Outdoor Unit Air Flow Volume Fan Type Fan Diameter Defrosting Method Climate Type Isolation Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Power Level Dimension of Carton Box (LXWXH) mm Net Weight Refrigerant Refrigerant Charge Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe inch Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe inch A A A A A A A A A A A A A

Model			GWH18AGD-K6DNA4D GWH18AGDXB-K6DNA2D	GWH18AGDXB-K6DNA2D	
Product Code			CB558000901 CB543004702	CB543004701	
	Rated Voltage	V~	220-240		
Power Supply	Rated Frequency	Hz	50		
	Phases		1		
Power Supply	y Mode		Outo	loor	
Cooling Capa	acity	W	460	00	
Heating Capa	acity	W	5200		
Cooling Powe	er Input	W	1355		
Heating Pow	er Input	W	134	40	
Cooling Curre	ent Input	А	5.	9	
leating Curr	ent Input	А	5.	8	
Rated Input		W	190	00	
Rated Coolin	g Current	A	8	l	
Rated Heatin		A	9		
ir Flow Volu		m³/h	910/850/780/74	.0/700/650/610	
Dehumidifyin		L/h	1.		
ER	g voidino	W/W	3.3		
OP		W/W	3.8		
SEER			6.		
	ge/Warmer/Colder)		4.0/5.1/-		
Application A		m ²	21-31		
Application A		111	GWH18AGD-K6DNA4D/I		
	Model		GWH18AGDXB-K6DNA2D/I		
	Product Code		CB558N00901 CB543N04702	CB543N04701	
	Fan Type		Cross-flow		
	Fan Diameter Length(DXL)	mm	Ф106×739		
	Cooling Speed	r/min	1230/1050/980/900/850/800/750		
	Heating Speed	r/min	1200/1050/980/900/850/800/750		
	Fan Motor Power Output	W	35		
	Fan Motor RLA	А	0.45		
	Fan Motor Capacitor	μF	2.5		
	Evaporator Form		Aluminum Fin-copper Tube		
	Evaporator Pipe Diameter	mm	Ф5		
Indoor Unit		mm	2-1.3		
	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9		
	Swing Motor Model		MP24AK/MP24BA/MP24HF	MP24AK/MP24BA	
	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5	
	Fuse Current	A	3.15		
	Sound Pressure Level	dB (A)	Cooling: 44/39/37/34/32/30/29 Heating: 44/40/37/34/32/30/29		
	Sound Power Level	dB (A)	Cooling: 57/52/50/47/45/43/42 Heating: 57/53/50/47/45/43/42		
	Dimension (WXHXD)	mm			
	Dimension of Carton Box (LXWXH)		982X311X221 1039X377X287		
		mm			
	Dimension of Package (LXWXH)	mm	1044X38		
	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.	A	19
	Compressor RLA	A	4.4
	Compressor Power Input	W	952
	Compressor Overload Protector		
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
		°C	-15~43
	Cooling Operation Ambient Temperature Range Heating Operation Ambient Temperature Range	°C	-15~43 -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
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	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		l
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	55
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X605
	Net Weight	kg	26.5
	Gross Weight	kg	29
	Refrigerant		R32
	Refrigerant Charge	kg	0.75
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
_	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model			GWH18AGDXD-K6DNA4E	
Product Code	е		CB558009601/CB558009602/CB558009603	
	Rated Voltage		220-240	
Power Supply	Rated Frequency	Hz	50	
Сарріу	Phases		1	
Power Supply	y Mode		Outdoor	
Cooling Capa	Cooling Capacity W		5300	
Heating Capa	acity	W	5600	
Cooling Powe	er Input	W	1501	
Heating Power	er Input	W	1393	
Cooling Curre	ent Input	А	7.2	
Heating Curre	ent Input	А	6.3	
Rated Input		W	2350	
Rated Coolin	g Current	Α	10	
Rated Heatin	ng Current	А	10.5	
Air Flow Volu	ıme	m³/h	1000/850/760/650/580/520/450	
Dehumidifyin	g Volume	L/h	1.9	
EER	3	W/W	3.53	
COP		W/W	4.02	
SEER			7.3	
	SCOP(Average/Warmer/Colder)		4.2/5.7/3.5	
	Application Area		23-34	
111111111111111111111111111111111111111	Model	m²	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	A	0.25	
	Fan Motor Capacitor	μF		
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.3	
middor orne	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	
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 45/42/41/37/34/29/26/23 Heating: 48/44/42/37/36/35/32	
	Sound Power Level	dB (A)	Cooling: 60/55/54/50/47/42/39/36 Heating: 60/57/55/50/49/48/45	
	Dimension (WXHXD)	mm	982X311X221	
	Dimension of Carton Box (LXWXH)		1039X377X287	
		mm		
	Dimension of Package (LXWXH)	mm	1044X385X297	
	Net Weight	kg	12.5	
	Gross Weight	kg	15	

34 <u>Technical Information</u>

	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.	А	18
	Compressor RLA	A	5
	Compressor Power Input	W	1096
	Compressor Overload Protector		HPC115/95U1/KSD115°C
	Throttling Method		
	-	•C	Electron expansion valve 16~30
	Set Temperature Range	°C	
	Cooling Operation Ambient Temperature Range		-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
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	А	0.4
	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
	Outer Diameter Liquid Pipe	inch	1/4
Connection		inch	1/2
Pipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter		

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

Power Supply	ity ity Input Input it Input it Input Current	V~ Hz W W W W A A W	CB543004800 CB558001001 220-2 50 1 Outd 620 650 178 164 7.6	00000000000000000000000000000000000000		
Power Supply No Power Supply Supply Supply No Power Supply Su	Rated Frequency Phases Mode ity ity Input Input Input of Input Current	Hz W W W A A W	50 1 Outd 620 650 178 164 7.6	00000000000000000000000000000000000000		
Supply Power Supply M Cooling Capaci Heating Capaci Cooling Power Heating Power Cooling Curren Heating Curren Rated Input Rated Cooling Capaci	Phases Mode ity ity Input Input Input ot Input Current	W W W A A W	1 Outd 620 650 178 164 7.6	oor 00 00 36 45		
Power Supply Magnetic Cooling Capacing Power Heating Power Cooling Current Heating Current Rated Input Rated Cooling Cated Heating Capacing Cated Heating Capacing Cated Heating Capacing Cated Heating Capacing Capaci	Mode ity ity Input Input it Input of Input Current	W W W A A W	Outd 620 650 178 164 7.6	00 00 36 45		
Cooling Capaci Heating Capaci Cooling Power Heating Power Cooling Curren Heating Curren Rated Input Rated Cooling Cated	ity ity Input Input it Input it Input Current	W W W A A W	620 650 178 164 7.6	00 00 36 45		
Heating Capaci Cooling Power Heating Power Cooling Curren Heating Curren Rated Input Rated Cooling Cated Heating	Input Input Input Input Int Input Outrent	W W A A W	650 178 164 7.6	00 36 45 6		
Cooling Power Heating Power Cooling Curren Heating Curren Rated Input Rated Cooling (Rated Heating (Input Input Input Int Input Int Input Current	W W A A W	178 164 7.6 7.6	36 45 6		
Heating Power Cooling Curren Heating Curren Rated Input Rated Cooling (Rated Heating (Input it Input it Input Current	W A A W	164 7.6 7.6	45 6		
Cooling Current Heating Current Rated Input Rated Cooling (Rated Heating)	nt Input nt Input Current	A A W	7.6 7.6	6		
Heating Curren Rated Input Rated Cooling (Rated Heating (Current	A W	7.6			
Rated Input Rated Cooling (Rated Heating (Current	W		6		
Rated Cooling (Rated Heating)			220			
Rated Heating				00		
	Current	Α	9.3	3		
ir Flow Volum	Carron	Α	9.7	7		
		m³/h	1050/950/800/750/	/700/650/600/550		
Dehumidifying \	Volume	L/h	1.8	 B		
ER		W/W	3.4	.7		
COP		W/W	3.95			
SEER			6.8			
SCOP(Average/Warmer/Colder)			4.0/5			
pplication Area		m ²	23-3			
	Model		GWH24AGDXE-K6DNA2C/I GWH24AGDXE-K6			
P	Product Code		CB543N04800 CB558N01001	CB543N04801		
F	an Type		Cross-flow			
	an Diameter Length(DXL)	mm	Φ106×739			
	Cooling Speed	r/min	1350/1200/1100/1	000/900/850/800		
	Heating Speed	r/min	1350/1200/1100/1	000/900/850/800		
_	an Motor Power Output	W	35			
_	an Motor RLA	Α	0.4			
	an Motor Capacitor	μF	3			
	Evaporator Form		Aluminum Fin-	copper Tube		
	Evaporator Pipe Diameter	mm	Φ7	· ·		
ndoor I Init	Evaporator Row-fin Gap	mm	2-1			
<u> </u>	Evaporator Coil Length (LXDXW)	mm	745×22.8			
	Swing Motor Model		MP24BA/MP24AK/MP24HF	MP24BA MP24AK		
_	Swing Motor Power Output	W	1.5/1.5/1.5	1.5/1.5		
_	Fuse Current	A	3.1			
	Sound Pressure Level	dB (A)	Cooling: 46/42/40/37/35/32/30			
	Sound Power Level	dB (A)	Cooling: 63/59/57/54/53/49/47	<u> </u>		
	Dimension (WXHXD)	mm	982X31			
<u> </u>	Dimension of Carton Box (LXWXH)	mm	1039X37			
	Dimension of Package (LXWXH)	mm	1044X38			
<u> </u>	Net Weight	kg	1044,736			
_	Gross Weight	kg	16.			

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

	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.	A	/
	Compressor RLA	A	6.06
	Compressor Power Input	W	1330
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	-	°C	-15~43
	Cooling Operation Ambient Temperature Range Heating Operation Ambient Temperature Range	°C	-15~43 -15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	848x38.1x528
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	40
Unit	Fan Motor RLA	A	0.7
	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	2800
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф445
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		l
	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
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
i ipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

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

Model			GWH24AGDXE-K6DNA1Z	
Product Code			CB385020700	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases		1	
Power Supply	y Mode		Outdoor	
Cooling Capa	city W 6200		6200	
Heating Capa	acity	W	6500	
Cooling Powe	er Input	W	1786	
Heating Power	er Input	W	1645	
Cooling Curre	ent Input	А	7.6	
Heating Curre	ent Input	А	7.6	
Rated Input		W	2200	
Rated Coolin	g Current	Α	9.3	
Rated Heatin	g Current	А	9.7	
Air Flow Volu	-	m³/h	1050/950/800/750/700/650/600/550	
Dehumidifyin		L/h	1.8	
EER	3	W/W	3.47	
COP		W/W	3.95	
SEER			6.8	
	SCOP(Average/Warmer/Colder)		4.0/5.1//	
	Application Area		23-34	
	Model		GWH24AGDXE-K6DNA1Z/I	
	Product Code		CB385N20700	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф106×739	
	Cooling Speed	r/min	1350/1200/1100/1000/900/850/800	
	Heating Speed	r/min	1350/1200/1100/1000/900/850/800	
	Fan Motor Power Output	W	35	
	Fan Motor RLA	Α	0.45	
	Fan Motor Capacitor	μF	3	
	Evaporator Form		Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф7	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	
macor onic	Evaporator Coil Length (LXDXW)	mm	745×22.8×342.9	
	Swing Motor Model		MP24BA/MP24AK/MP24HF	
	Swing Motor Power Output	W	1.5/1.5/1.5	
	Fuse Current	A	3.15	
	Sound Pressure Level	dB (A)	Cooling: 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)		982X311X221	
		mm		
	Dimension of Carton Box (LXWXH)	mm	1039X377X287	
	Dimension of Package (LXWXH)	mm	1044X385X297	
	Net Weight	kg	14	
	Gross Weight	kg	16.5	

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	Outdoor Unit Model		GWH24AGDXE-K6DNA1Z/O
	Outdoor Unit Product Code		CB385W20700
	Compressor Manufacturer		ZHUHAI LINDA COMPRESSOR CO., LTD.
	Compressor Model		FTz-SM151AXBD
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	6.06
	Compressor Power Input	W	1330
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	848x38.1x528
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	40
Unit	Fan Motor RLA	A	0.7
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	2800
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф445
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		l
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	57
	Sound Power Level	dB (A)	67
	Dimension(WXHXD)	mm	873X555X376
	Dimension of Carton Box (LXWXH)	mm	948X428X591
	Dimension of Package(LXWXH)	mm	951X431X620
	Net Weight	kg	36.5
	Gross Weight	kg	39.5
	Refrigerant		R32
	Refrigerant Charge	kg	1.18
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
0	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
i ipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

Model			GWH24AGEXF-K6DNA4A		
Product Code	Э		CB558009703/CB558009704/CB558009705		
	Rated Voltage V~		220-240		
Power Supply	Rated Frequency	Hz	50		
Сарріу	Phases		1		
Power Suppl	y Mode		Outdoor		
Cooling Capa	ooling Capacity		7100		
Heating Capa	acity	W	7800		
Cooling Powe	er Input	W	2030		
Heating Pow	er Input	W	2000		
Cooling Curre	ent Input	А	9		
Heating Curr	ent Input	А	9.3		
Rated Input		W	3000		
Rated Coolin	g Current	Α	13		
Rated Heatin	-	А	13.5		
Air Flow Volu	-	m³/h	1250/1100/1000/950/900/850/800/600		
Dehumidifyin		L/h	2.4		
EER	9 1 0.00	W/W	3.5		
COP		W/W	3.9		
SEER			7		
	SCOP(Average/Warmer/Colder)		4.2/5.4/3.4		
	Application Area		27-42		
Application	Model	m²	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	0.24		
	Evaporator Form	-	Aluminum Fin connex Tube		
	·		Aluminum Fin-copper Tube		
la da a a la la it	Evaporator Pipe Diameter	mm	Φ7		
indoor Unit	Evaporator Row-fin Gap	mm	2-1.4		
	Evaporator Coil Length (LXDXW)	mm	845×25.4×381		
	Swing Motor Model		MP24HF/MP24HF/MP24AK		
	Swing Motor Power Output	W	1.5/1.5/		
	Fuse Current	Α	3.15		
	Sound Pressure Level	dB (A)	Cooling: 48/44/41/40/38/36/33/27 Heating: 50/47/43/41/40/36/35		
	Sound Power Level	dB (A)	Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50		
	Dimension (WXHXD)	mm	1075X333X246		
	Dimension of Carton Box (LXWXH)	mm	1128X406X323		
	Dimension of Package (LXWXH)	mm	1133X414X333		
	Net Weight	kg	16		
	Gross Weight	kg	19		

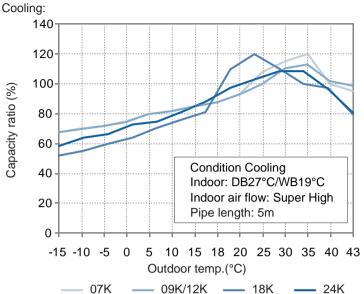
40 • • • • <u>Technical Information</u>

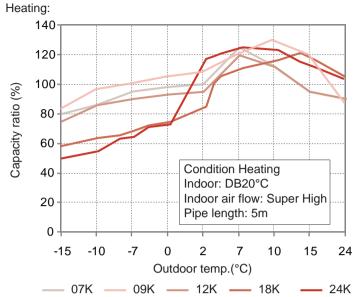
	Outdoor Unit Model		GWH24AFE-K6DNA2I/O
	Outdoor Unit Product Code		CB363W04101
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model		QXFS-M180zX170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Twin Rotary
	Compressor LRA.	А	35
	Compressor RLA	Α	3.5
	Compressor Power 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	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839×38.1×616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
Outdoor	Fan Motor RLA	Α	0.65
Unit	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m ³ /h	3600
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф520
	Defrosting Method		Automatic Defrosting
	Climate Type		
	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)	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
0 ::	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	er.	

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

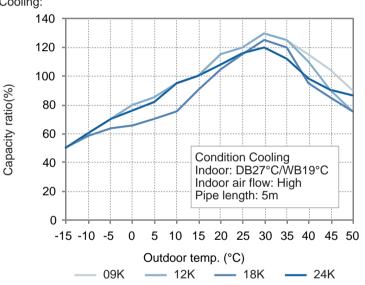
2.2 Capacity Variation Ratio According to Temperature

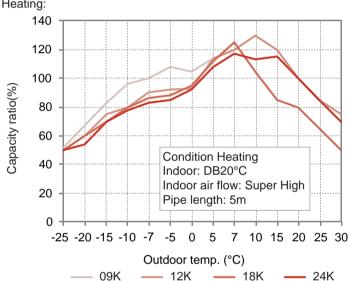
The models for 07K ~ 24K with heating operation ambient temperature range of -15°C~24°C





The models for 09K \sim 24K with heating operation ambient temperature range of -25 $^{\circ}$ C \sim 30 $^{\circ}$ C Cooling:





2.3 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

g-								
Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	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	Inlet and outlet pi heat ex	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

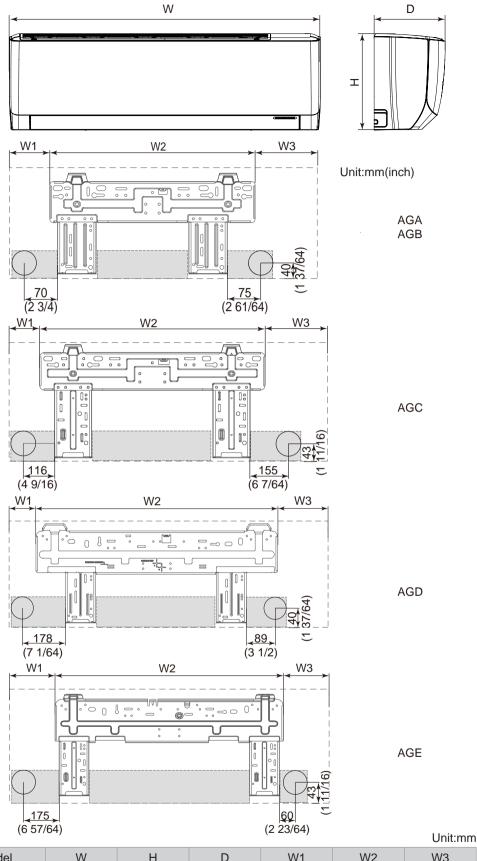
Instruction:

- 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

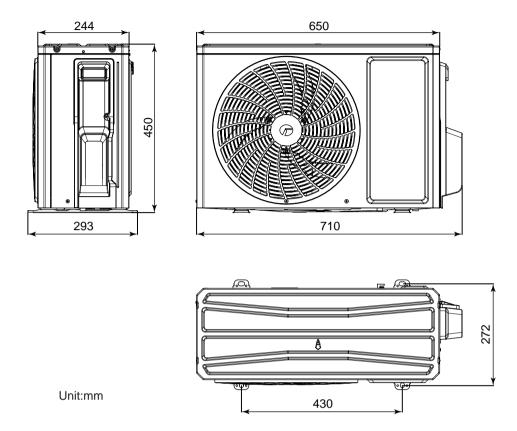
3.1 Indoor Unit



						Officialiti
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

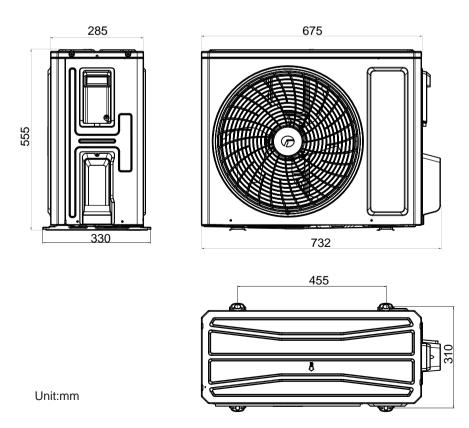
3.2 Outdoor Unit

GWH07AGA-K6DNA1A/O



GWH09AGBXB-K6DNA1A/O GWH18AGD-K6DNA1D/O GWH09AGBXB-K6DNA1E/O GWH09AGAXB-K6DNA1B/O GWH09ACCXB-K6DNA1G/O

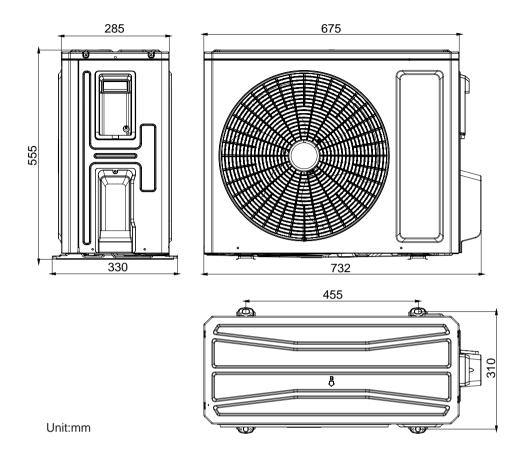
GWH09AFC-K6DNA2F/O GWH12ATCXB-K6DNA4G/O GWH12AFC-K6DNA2F/O GWH18AGDXB-K6DNA1Z/O



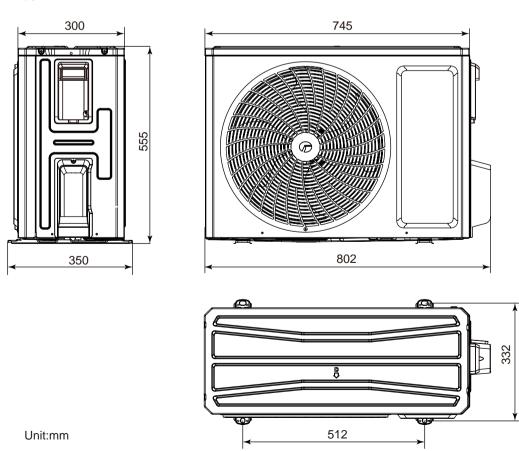
44

Technical Information

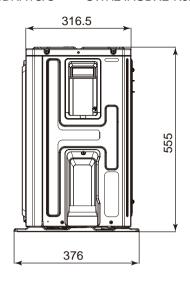
GWH12AGBXB-K6DNA1Z/O GWH12AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA4C/O GWH12AGCXB-K6DNA1A/O

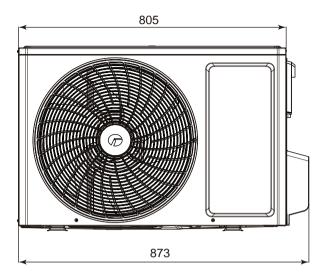


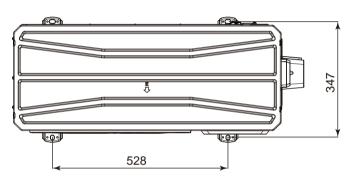
GWH18AGD-K6DNA1E/O



GWH24AGD-K6DNA1C/O GWH24AGDXE-K6DNA1Z/O

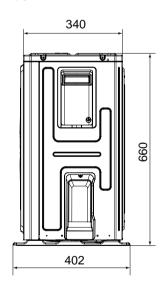


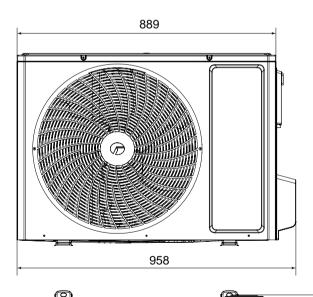




Unit:mm

GWH24AFE-K6DNA2I/O





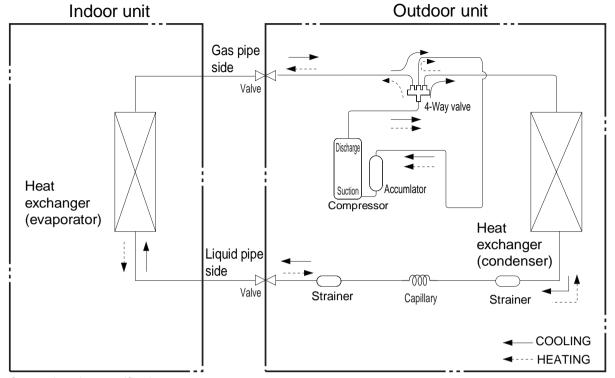
570

Unit:mm

Technical Information

4. Refrigerant System Diagram

The models of the capillary throttling method are as follows:



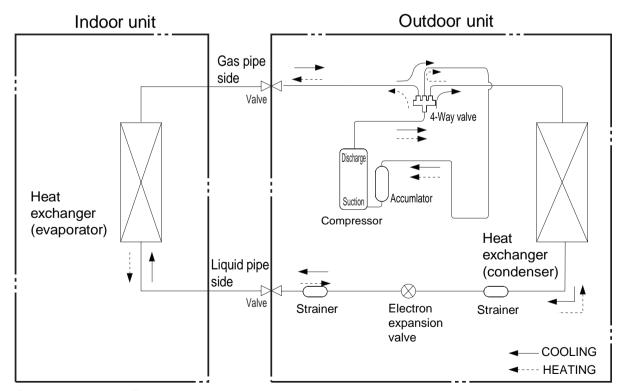
Connection pipe specification:

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

Technical Information

5. Electrical Part

5.1 Wiring Diagram

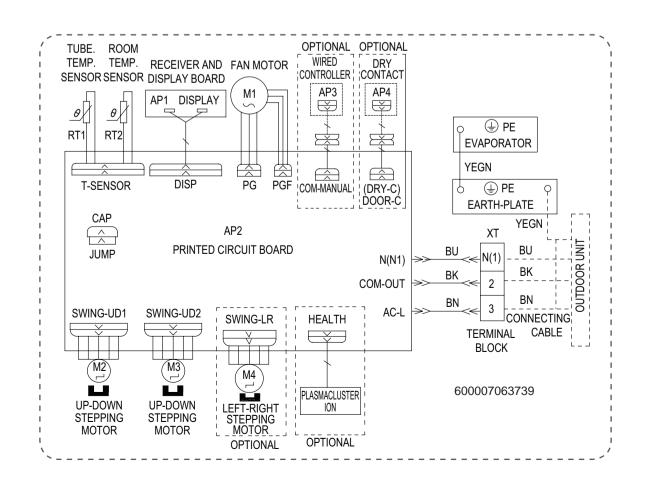
• Instruction

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		/	/	
VT	Violet	OG	Orange		/	/	
				_			

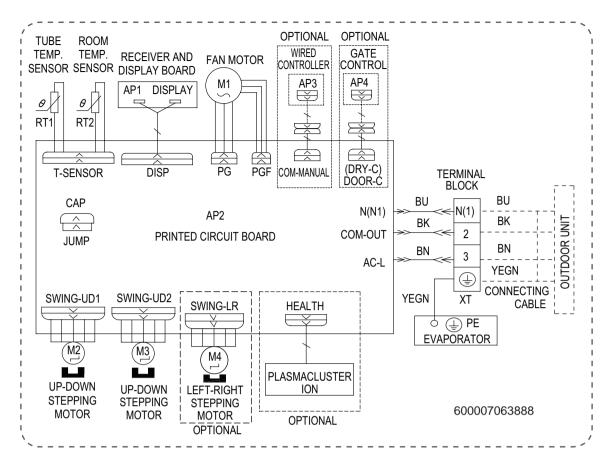
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

Indoor Unit

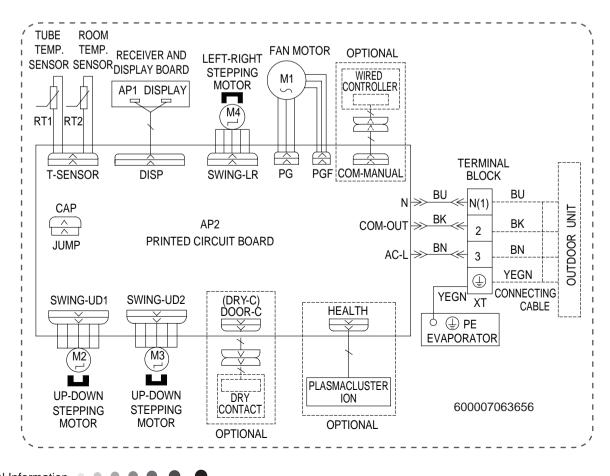
GWH07AGA-K6DNA1A/I GWH09AGAXB-K6DNA4B/I GWH12AGBXB-K6DNA4A/I GWH09AGBXB-K6DNA1E/I GWH07AGAXA-K6DNA4A/I GWH09AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA2C/I GWH09AGAXB-K6DNA1B/I GWH12AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA4C/I GWH09AGAXB-K6DNA2B/I GWH12AGBXB-K6DNA2A/I GWH12AGBXB-K6DNA1Z/I



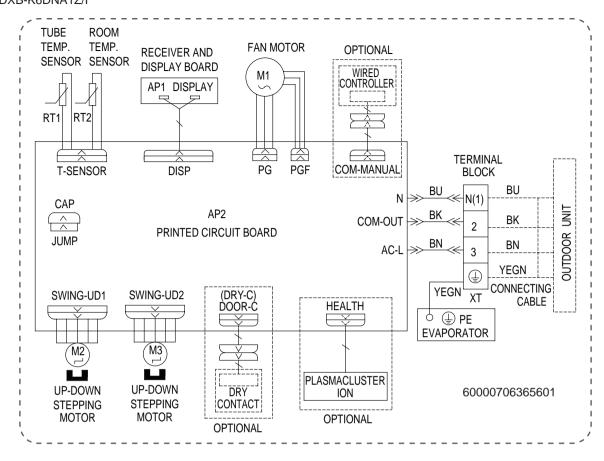
Technical Information



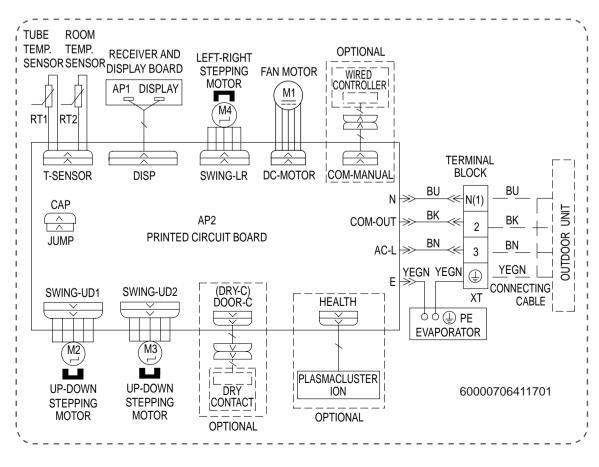
GWH18AGD-K6DNA4D/I GWH24AGDXE-K6DNA2C/I(CB543N04800) GWH18AGDXB-K6DNA2D/I(CB543N04702) GWH24AGD-K6DNA4C/I



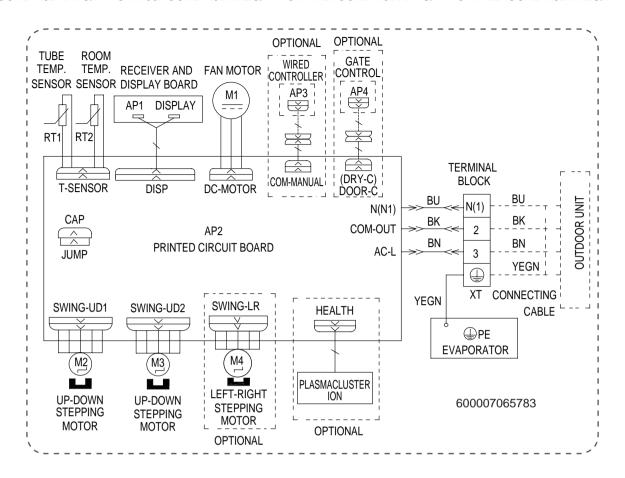
Technical Information



GWH18AGDXD-K6DNA4E/I GWH24AGEXF-K6DNA4A/I

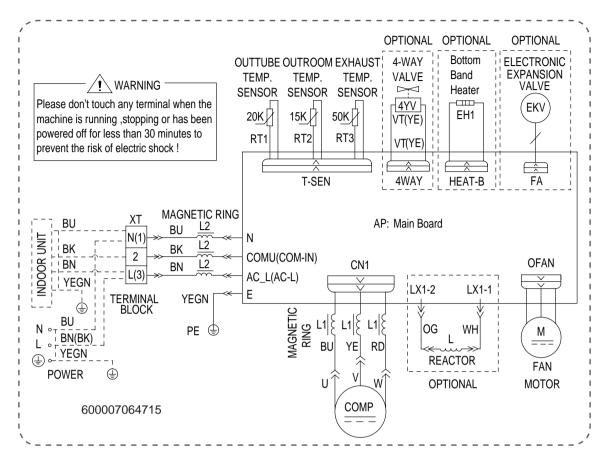


Technical Information

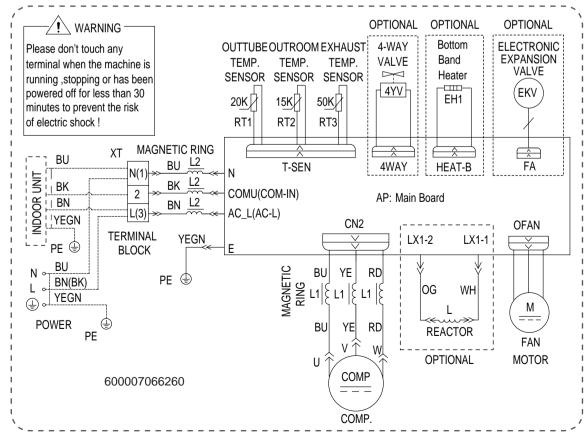


Outdoor Unit

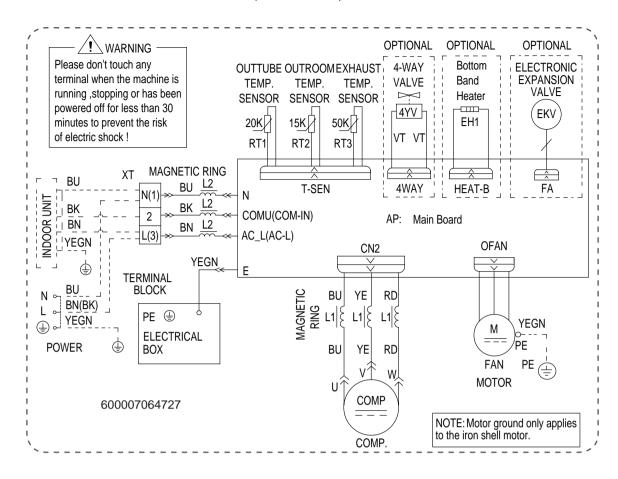
GWH07AGA-K6DNA1A/O



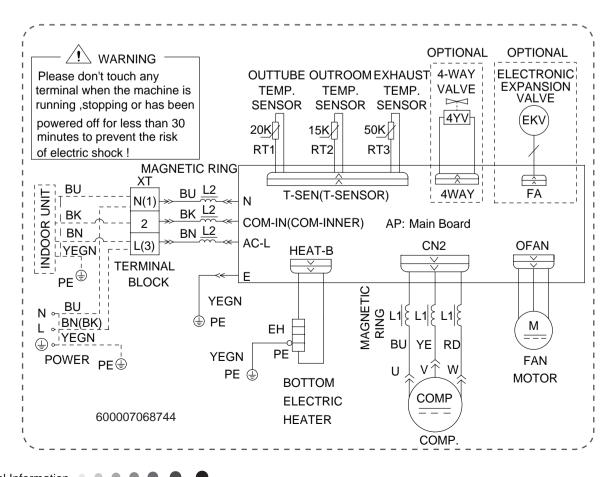
GWH09AGAXB-K6DNA1B/O GWH09AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA1A/O GWH12AGCXB-K6DNA1A/O GWH09ACCXB-K6DNA1G/O GWH12ATCXB-K6DNA4G/O GWH09AGBXB-K6DNA1E/O



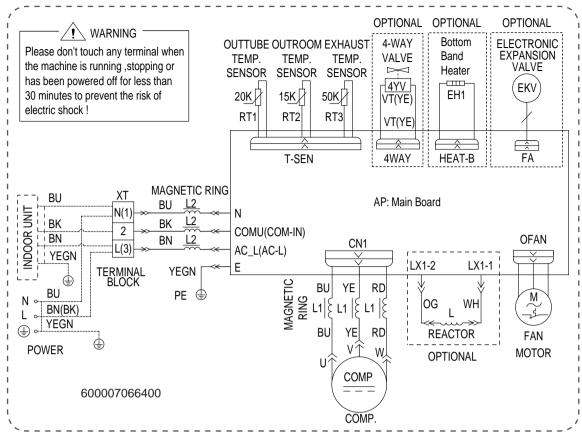
52 <u>Technical Information</u>



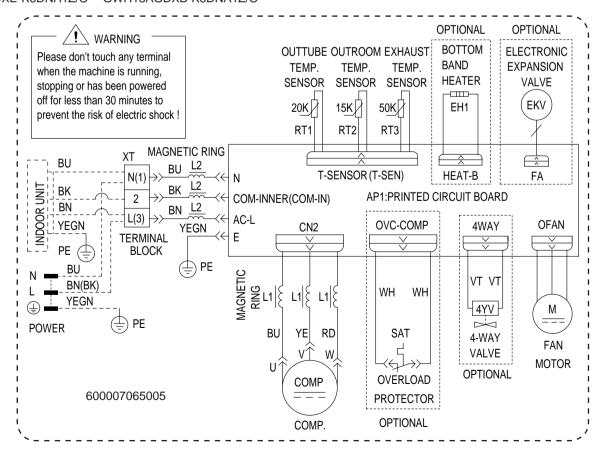
GWH12AFC-K6DNA2F/O(CB363W03605)



Technical Information • • • • • • •



GWH18AGD-K6DNA1D/O GWH18AGD-K6DNA1E/O GWH24AGD-K6DNA1C/O GWH24AFE-K6DNA2I/O GWH24AGDXE-K6DNA1Z/O GWH18AGDXB-K6DNA1Z/O



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

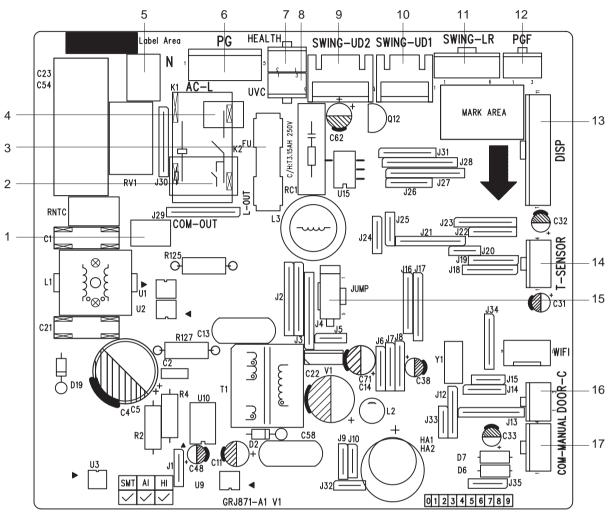
● ● ● ● ■ Technical Information

5.2 PCB Printed Diagram

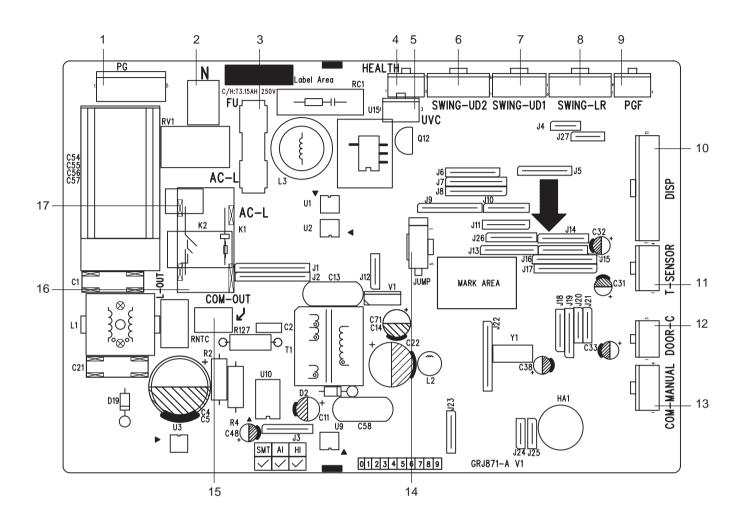
Indoor Unit

GWH07AGA-K6DNA1A/I GWH09AGAXB-K6DNA4B/I GWH12AGBXB-K6DNA2C/I

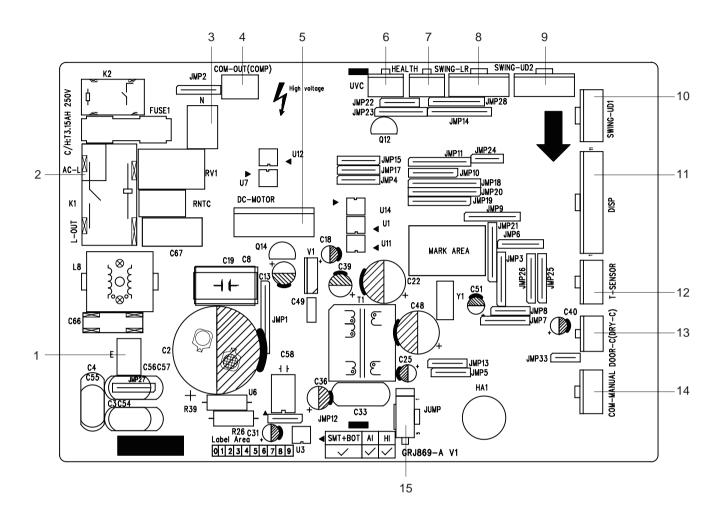
GWH07AGAXA-K6DNA4A/I GWH09AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA4C/I GWH09AGAXB-K6DNA1B/I GWH12AGBXB-K6DNA1A/I GWH12AGBXB-K6DNA1Z/I GWH09AGAXB-K6DNA2B/I GWH12AGBXB-K6DNA2A/I GWH09AGBXB-K6DNA1E/I



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



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

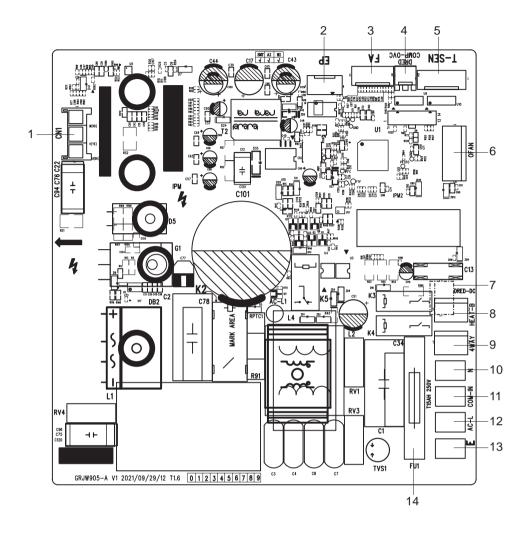


No.	Name	No.	Name
1	Earthing Wire Insertion	9	Up & Down Swing Needle Stand 2
2	Live Wire Insertion		Up & Down Swing Needle Stand 1
3	Neutral Wire Insertion	11	Display Board Needle Stand
4	Communication Wire Insertion	12	Temperature Sensor Needle Stand
5	Brushless DC Motor Needle Stand	13	Door Control Needle Stand
6	Ultraviolet cleaning Needle Stand		Wired Controller Needle Stand
7	Health Function Needle Stand		Jumper Needle Stand
8	Left & Right Swing Needle Stand		

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

Outdoor Unit

GWH07AGA-K6DNA1A/O



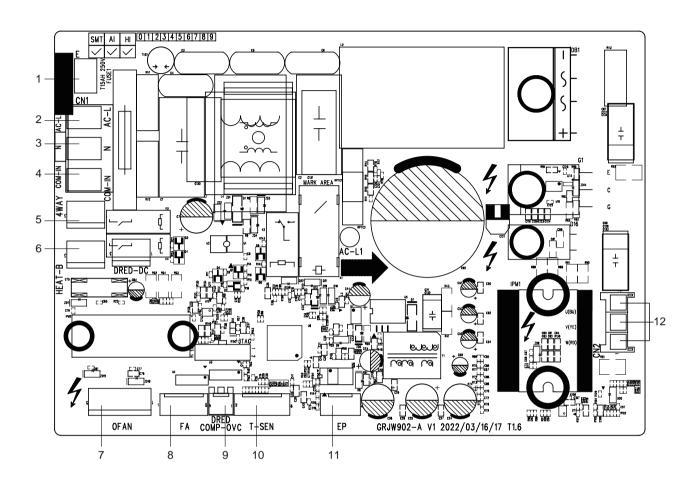
1 Compressor Wire Insertion 8 Chassis Electric Hea	iting Belt Needle Stand
2 EEP Flash Drive Needle Stand 9 Four-way Valve Nee	dle Stand
3 Electronic Expansion Valve Needle Stand 10 Neutral Wire Insertio	n
4 Compressor Overload Needle Stand 11 Communication Wire	e Insertion
5 Temperature Sensor Needle Stand 12 Live Wire Insertion	
6 Outdoor Fan Needle Stand 13 Earthing Wire Inserti	on
7 DRED Needle Stand 14 Fuse	

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GWH09AFC-K6DNA2F/O

GWH09AGAXB-K6DNA1B/O GWH09AGBXB-K6DNA1A/O GWH12AFC-K6DNA2F/O GWH12AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA1Z/O GWH12AGCXB-K6DNA1A/O GWH18AGD-K6DNA1D/O

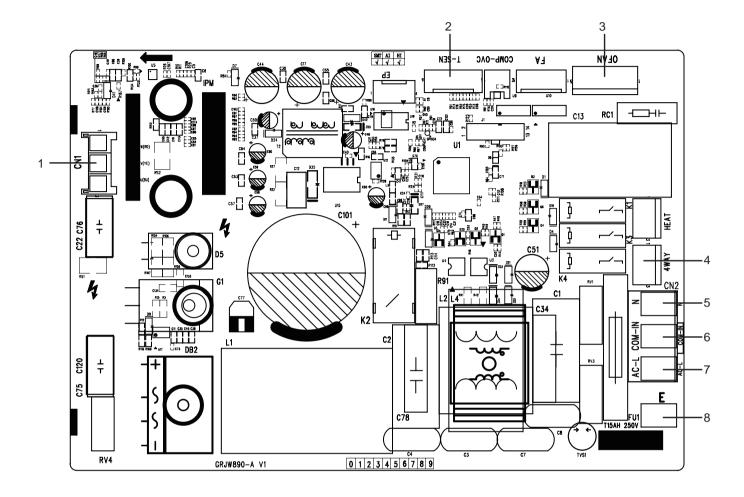
GWH09ACCXB-K6DNA1G/O GWH12ATCXB-K6DNA4G/O GWH18AGDXB-K6DNA1Z/O GWH09AGBXB-K6DNA1E/O



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

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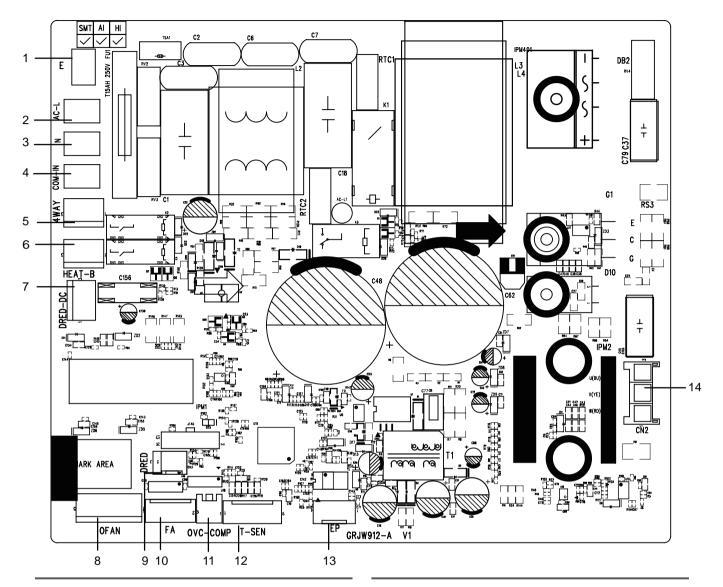
GWH12AGBXB-K6DNA4C/O



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

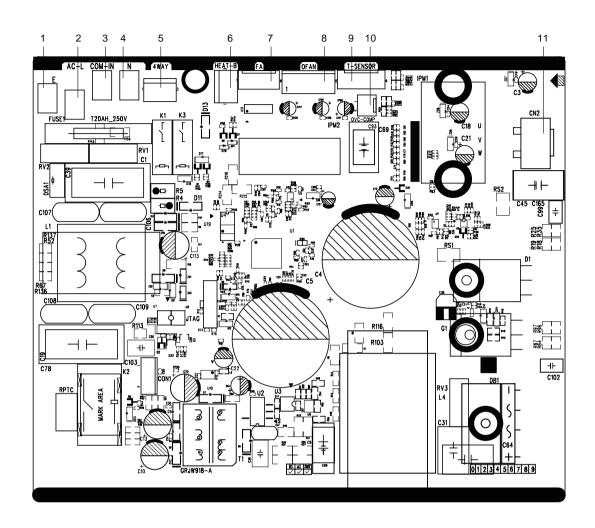
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GWH18AGD-K6DNA1E/O



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

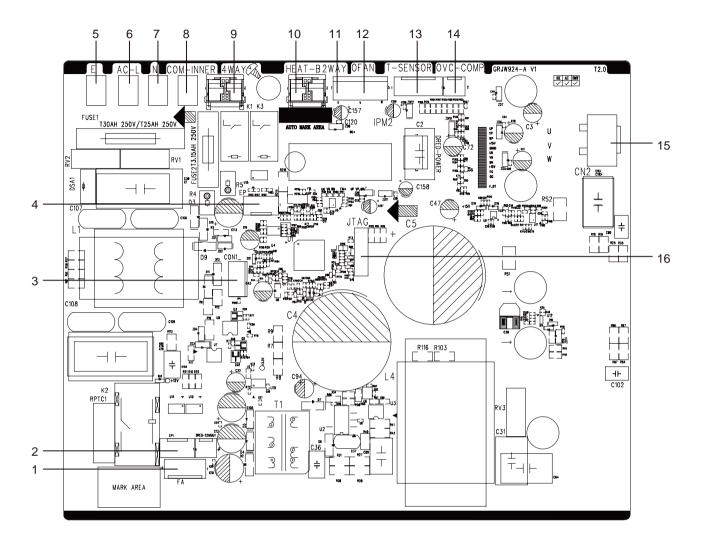
GWH24AGD-K6DNA1C/O GWH24AGDXE-K6DNA1Z/O



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

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GWH24AFE-K6DNA2I/O



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

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

6. Function and Control

6.1 Remote Controller Introduction for YAP1F7(WiFi)

Buttons on remote controller



Introduction for icons on display screen

÷		I feel		
FAN AUTO		Set fan speed		
	%	Turbo mode		
	♠	Send signal		
e	۵	Auto mode		
Operation mode	*	Cool mode		
ion	44	Dry mode		
erat	પુક પુક	Fan mode		
g	*	Heat mode		
	© 3	Sleep mode		
	\$	8°C heating function		
	₽	Power limiting operation		
	*	Health mode		
	£Û	Scavenging function		
&		X-FAN function		
	•			
	Û¦ Temp.	☐ 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		
<u> </u>		Child lock		
ନ		Quiet		

Introduction for buttons on remote controller

NOTE:

- 1. This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.
- 2. After putting through the power, the air conditioner will give out a sound. Operation indicator " () " is ON (red indicator, the colour is different for different models). After that, you can operate the air conditioner by using remote controller.
- 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.



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 " \mathbb{R} " / " \mathbb{N} " button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press " \□ \□ \□ \□ button to adjust fan blowing angle.

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• When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. Press "FAN" button to adjust fan speed. Press " 등 " / " 🗦 " 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 " \blacksquare " / " \Rightarrow " 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 " \blacksquare " \exists " button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/OFF button can't start up the unit).

NOTE:

- For preventing cold air, after starting up heat mode, indoor unit will delay 1~5 minutes to blow air (Actual delay time depends on indoor ambient temperature).
- Set temperature range from remote controller: 16~30°C (61~86°F).
- Under auto mode, temperature can be displayed; Under auto mode, set temperature can be adjusted.
- This mode indicator is not available for some models.



NOTE:

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

TURBO button

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

△ / ▽ button

- ullet Press " \triangle " or " abla " button once increase or decrease set temperature 1°C (°F). Holding " \triangle " or " abla " button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly.
- ullet When setting T-ON, T-OFF or CLOCK, press " \triangle " or " ∇ " button to adjust time. (Refer to CLOCK, T-ON,T-OFF buttons)



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



NOTE:

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

্বা button

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

no display
$$\longrightarrow$$
 0 \longrightarrow 0 \longrightarrow 0 \longrightarrow 0 \longrightarrow 0 (horizontal louvers stops at current position)

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

position.

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

NOTE:

- " \geqslant 0 , \geqslant 0 , \geqslant 0 , \geqslant 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 $\sqrt[6]{0}$, if press this button again 2s later, $\sqrt[6]{0}$ 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 " \triangledown " button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. " \bigcirc " icon stops blinking.

NOTE:

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

SLEEP button

- Press this button, can select Sleep 1 ((::) 1), Sleep 2 ((::) 2), Sleep 3 ((::) 3) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.
- Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1, two hours, setting temperature increased 2°C, then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1, two hours, setting temperature will decrease 2, then the unit will run at this setting temperature.
- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.
- Sleep 3- the sleep curve setting under Sleep mode by DIY;

- (1) Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remote controller will display "1hour", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);
- (2) Adjust " \triangle " and " ∇ " button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation:
- (3) At this time, 1hour will be automatically increased at the timer position on the remote control, (that are "2hours" or "3hours" or "8hours"), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;
- (4) Repeat the above step (2)~(3) operation, until 8 hours temperature setting finished, sleep, curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.
- Sleep3- the sleep curve setting under Sleep mode by DIY could be inquired:

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

NOTE: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "MODE" button, "SLEEP" button, the sleep curve setting or enquiry status will quit similarly.

WiFi button

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

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

• This function is only available for some models.

☀/針 button

Press this button to achieve the on and off of health and scavenging functions in operation station. Press this button for the first time to start scavenging function; LCD displays "\(\tilde{\tilde

function; LCD display "♠". Press this button again to repeat the operation above.

• This function is applicable to partial of models.

LIGHT button

Press this button to turn off display light on indoor unit. " ﷺ " icon on remote controller disappears. Press this button again to turn on display light. " ﷺ " icon is displayed.

TEMP button

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



Function introduction for combination buttons

Energy-saving function

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

NOTE:

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

8°C heating function

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

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

NOTE:

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

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

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

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

Child lock function

Press " $_{\triangle}$ " and " $_{\nabla}$ " 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 " \bigtriangledown " and "MODE" buttons simultaneously to switch temperature display between °C and °F.

Auto clean function

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

NOTE:

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

function

Press "MODE" and "SLEEP" buttons simultaneously to start \$\overline{\overlin

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{

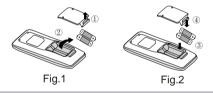
- If you want to cancel the power limiting function, press the button **3** till the icon in remote controller is not displayed.
- When the remote controller is turned off, power limiting function is cancelled. If you want to activate the function, please repress this button.
- If the current power is lower than the maximum power of \$\overline{\overli
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into the set limiting power mode of indoor unit; when two indoor units enter into power limiting mode, then the power of outdoor unit will be limited according to the lower power of the two indoor units.

NOTE:

• This function is only available for some models.

Replacement of batteries in temote controller

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



NOTICE:

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

6.2 Remote Controller Introduction for YAY1F

Buttons on remote controller



Introduction for icons on display screen

.#		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 " U " is ON. After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon " " on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.

(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).

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- 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 " U " button can't start up the
 unit.

FAN button

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

NOTE:

- Under AUTO speed, air conditioner will select proper fan speed automatically according to factory default setting.
- It's low fan speed under dry mode.
- X-FAN function: Holding fan speed button for 2s in cool or dry mode, the icon " " is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in auto, fan or heat mode. This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.
- Having set X-FAN function on: After turning off the unit by pressing " () " button, indoor fan will continue running for a few minutes at low speed. In this period, hold fan speed button for 2s to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing " 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)), Sleep 2 ((\cdot, \cdot)), Sleep 3 ((\cdot, \cdot)) 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

Technical Information

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, " () " 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, " \oplus " 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.

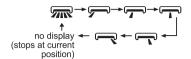
Release this button when reaching your required time, press "SET" button to confirm it within 5S. The " 🖰 " icon will stop blinking.

(**媡 L**eft & 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.

$(\, \S \mathcal{E} \,$ 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.

8 8 ℃ -heating function

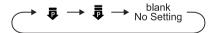
Under heating mode, when selecting 8°C-heating function, 8°C-heating icon " β_c " flashes for 5s; press "SET" button within 5s to turn on or turn off 8°C-heating. When 8°C-heating is started up, " β_c " will be shown on remote controller, and the air conditioner keep the heating status at 8°C. Press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

NOTE:

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

Power limiting function

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



- Maximum power limited under the \$\overline{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

this button.

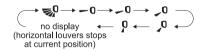
- If the current power is lower than the maximum power of \$\overline{6}\$ mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and two indoor units, if any one of indoor units enters into power limiting function, the outdoor unit will enter into 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, 0, 0, 0, 0, air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.

NOTE:

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

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:

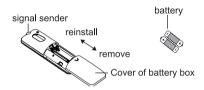


Adjustable temperature under auto mode



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.

6.3 Brief Description of Models and Functions

Indoor Unit

1.Basic function of system

(1) Cooling mode

- (1) Under this mode, fan and swing operates at setting status. Temperature setting range is 16~30°C.
- (2) During malfunction of outdoor unit or the unit is stopped because of protection, indoor unit keeps original operation status.

(2) Drying mode

- (1) Under this mode, fan operates at low speed and swing operates at setting status. Temperature setting range is 16~30°C.
- (2) During malfunction of outdoor unit or the unit is stopped because of protection, indoor unit keeps original operation status.
- (3) Protection status is same as that under cooling mode.
- (4) Sleep function is not available for drying mode.

(3) Heating mode

- (1) Under this mode, Temperature setting range is 16~30°C.
- (2) Working condition and process for heating mode:

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

(4) Working method for AUTO mode:

1. Working condition and process for AUTO mode:

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

- 2.Protection function
- a. During cooling operation, protection function is same as that under cooling mode.
- b. During heating operation, protection function is same as that under heating mode.
- 3. Display: Set temperature is the set value under each condition. Ambient temperature is $(T_{amb.}-T_{compensation})$ 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 $T_{amb.} \ge 26$ °C, unit will be in cooling mode°C Ex-factory set temperature is 25°C
- ♦ Cooling and heating unit: When $T_{amb.} \le (19^{\circ}\text{C+Tcompensation})$, unit will be in heating mode $T_{preset} = 20^{\circ}\text{C}$.
- ♦ Cooling only unit: When $T_{amb.} \le 22^{\circ}C(or\ 72^{\circ}F)$, unit will be in fan mode $T_{preset} = 25^{\circ}C$.
- ♦ For cooling and heating unit under condition that (19°C+T_{compensation})<T_{amb.}<26°C (For cooling only unit under condition that 22°C<T_{amb.}<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 $T_{amb.} \ge T_{set} + 1$ °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 $T_{amb.} \le T_{set}$ -1°C, the compressor and the ODU fan motor stop, while the IDU fan motor operates at set speed.
- ♦ When T_{set} -1°C< $T_{amb.}$ < T_{set} +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

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

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

(12) Off-peak energization function:

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

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

(13) SE control mode

The unit operates at SE status.

(14) X-fan mode

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

(15) 8°C heating function

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

(16) Turbo function

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

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

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

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

Tips:

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

Outdoor Unit

1. Cooling mode:

Working condition and process of cooling mode:

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

- ② When T_{indoor ambient temperature}≤T_{preset}-2°C, compressor stops operation and outdoor fan will stop 30s later. Indoor fan operates according to set fan speed.
- ③ When T_{preset}-2°C<T_{indoor ambient temperature}<T_{preset}, 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 $T_{indoor\ ambient\ temperature} > T_{preset}$, unit will be in drying mode. Outdoor fan and compressor start operation while indoor fan will operate at low fan speed.
- ② When T_{preset} -2°C \leq T $_{indoor\ ambient\ temperature}$ \leq T $_{preset}$, unit operates according to the previous status.
- When T_{indoor ambient temperature} < T_{preset} 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 T_{preset}-(T_{indoor ambient temperature}-T_{compensation})≥1°C, unit enters into heating mode. Compressor, outdoor fan and 4-way valve start operation.
- ② When -2°C<T_{preset}-(T_{indoor ambient temperature}-T_{compensation})<1°C, unit operates according to the previous status.
- ③ When T_{preset} - $(T_{indoor\ ambient\ temperature}$ - $T_{compensation})$ ≤-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).
- (5) When T_{outdoor 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: $T_{\text{compensation}}$ is determined by IDU and ODU. If IDU controls the compensation temperature, then $T_{\text{compensation}}$ is determined according to the value sent by IDU to ODU; If IDU does not control the compensation temperature, then $T_{\text{compensation}}$ will default to 3°C by the ODU.

5. Freon recovery mode

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

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

6. Compulsory defrosting

If unit is turned on under heating mode and set temperature is 16°C (by remote controller), press " $_{\triangle}$, $_{\nabla}$, $_{\triangle}$, $_{\nabla}$, $_{\triangle}$, $_{\nabla}$ " 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.

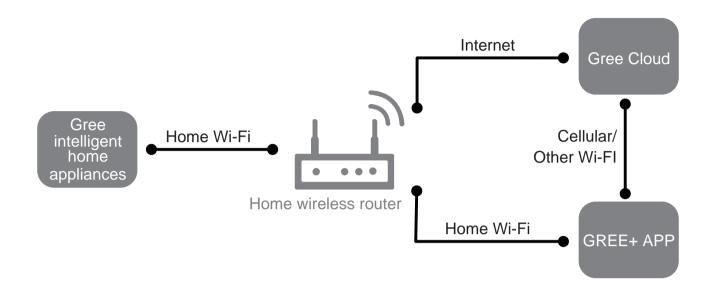
If compressor is operating under this mode, fan speed will adjust according to auto fan speed; if compressor stops operation under this mode, indoor fan will be in residual-heat blowing status.

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.

● ● ● ● ■ Technical Information

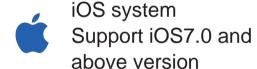
6.4 GREE+ App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system
Support Android 4.4 and above version

Download and installation

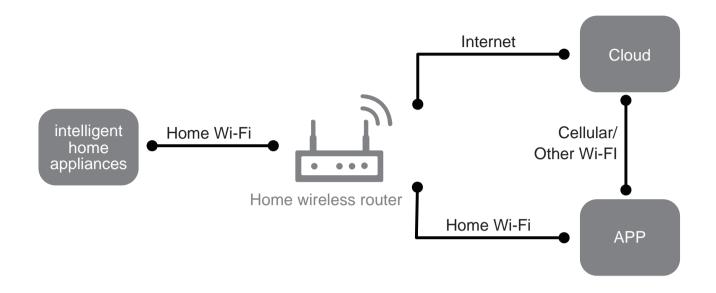


GREE+ App Download Linkage

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

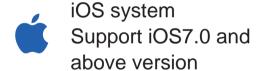
6.5 Ewpe Smart App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





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.

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7. Notes for Installation and Maintenance

Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

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



WARNINGS

Electrical Safety Precautions:

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

by yourself.

- 11. For the air conditioner without plug, an air switch must be installed in the circuit. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.
- 12. Make sure all wires and pipes are connected properly and the valves are opened before energizing.
- 13. Check if there is electric leakage on the unit body. If yes, please eliminate the electric leakage.
- 14. Replace the fuse with a new one of the same specification if it is burnt down; Don't replace it with a cooper wire or conducting wire.
- 15. If the unit is to be installed in a humid place, the circuit breaker must be installed.

Installation Safety Precautions:

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

Refrigerant Safety Precautions:

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

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

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Safety Precautions for Installing and Relocating the Unit:

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

!WARNINGS

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

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

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

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

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

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

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

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

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

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

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

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

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

Poor connections may lead to electric shock or fire.

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

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

Safety Precautions for Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can 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. (Please refer to table "a" in section of "Safety operation of flammable refrigerant" for space X.) Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants may not contain an odour. Read specialist's manual.



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

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



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

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

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

Safety Operation of Flammable Refrigerant

- 1. Qualification requirement for installation and maintenance man
- All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- It can only be repaired by the method suggested by the equipments manufacturer.

2. Installation notes

- The air conditioner must be installed in a room that is larger than the minimum room area. The minimum room area is shown on the nameplate or following table a.
- It is not allowed to drill hole or burn the connection pipe.
- Leak test is a must after installation.

table a - Minimum room area (m2)

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

3. Maintenance notes

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

4. Welding

• If you should cut or weld the refrigerant system pipes in the

process of maintaining, please follow the steps as below:

- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with N2 gas
- e. Cutting or welding
- f. Carry back to the service spot for welding
- Make sure that there isnt any naked flame near the outlet of the vacuum pump and its well-ventilated.
- The refrigerant should be recycled into the specialized storage tank.

5. Filling the refrigerant

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

6. Safety instructions for transportation and storage

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

Specialist's Manual

- The following checks shall be applied to installations using flammable refrigerants:
 - the charge size is in accordance with the room size within which the refrigerant containing parts are installed;
 - the ventilation machinery and outlets are operating adequately and are not obstructed;
 - if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
 - marking to the equipment continues to be visible and

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

- refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
 - that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
 - that no live electrical components and wiring are exposed while charging, recovering or purging the system;
 - that there is continuity of earth bonding.
- Checks to the area

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

• Work procedure

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

• General work area

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

• Checking for presence of refrigerant

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

• Presence of fire extinguisher

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

• No ignition sources

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

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

Ventilated area

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

• Checks to the refrigerating equipment

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

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

- the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed:
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating pipe or components are installed in a

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

Checks to electrical devices

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

Initial safety checks shall include:

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

• Repairs to sealed components

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

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

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

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

• Repair to intrinsically safe components

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

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

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

Cabling

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

• Detection of flammable refrigerants

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

• Leak detection methods

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

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

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

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

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

process.

Removal and evacuation

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

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

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

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

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

• Charging procedures

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

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

system.

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

• Decommissioning

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

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure, ensure that:
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
 - all personal protective equipment is available and being used correctly;
 - the recovery process is supervised at all times by a competent person;
 - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions.
- h) Do not overfill cylinders. (No more than 80% volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

Labelling

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

Recovery

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

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

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

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

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

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

General

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

That compliance with national gas regulations shall be observed.

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

Main Tools for Installation and Maintenance







































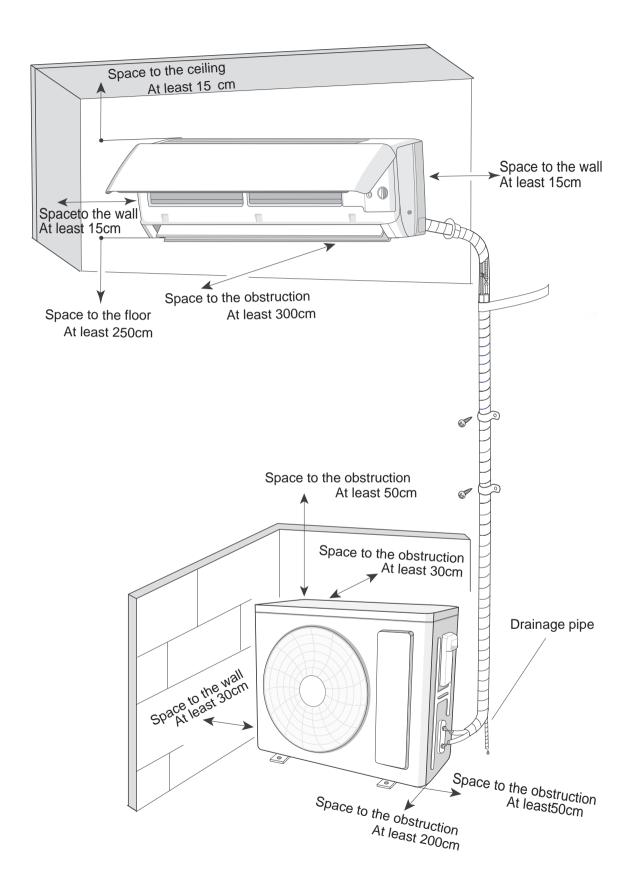




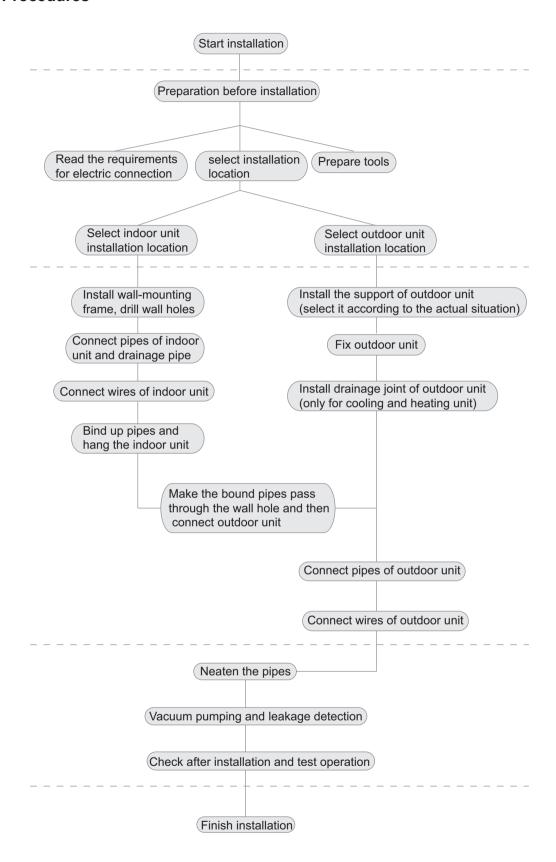


8. Installation

8.1 Installation Dimension Diagram



Installation Procedures



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

8.2 Installation Parts-checking

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

NOTE:

- 1. Please contact the local agent for installation.
- 2. Don't use unqualified power cord.

8.3 Selection of Installation Location

1. Basic Requirement

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

- (1) The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- (2) The place with high-frequency devices (such as welding machine, medical equipment).
- (3) The place near coast area.
- (4) The place with oil or fumes in the air.
- (5) The place with 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 away from fluorescent lamp.

3. Outdoor Unit

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

8.4 Electric Connection Requirement

1. Safety Precaution

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

2. Grounding Requirement

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

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

8.5 Installation of Indoor Unit

1. Choosing Installation Location

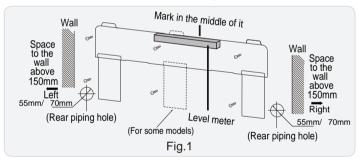
Recommend the installation location to the client and then confirm it with the client.

2. Install Wall-mounting Frame

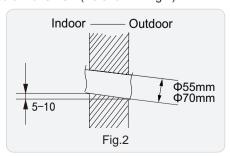
- (1) Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.
- (2) Drill the screw fixing holes on the wall with impact drill (the specification of drill head should be the same as the plastic expansion particle)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

3. Drill Piping Hole

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



- (2) When installation is finished, pull the mounting plate with hand to confirm whether it is fixed tightly. The force distribution for all screws should be uniform.
- (3) Drill a piping hole with the diameter of Φ 55mm or Φ 70mm on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of 5-10°. (As show in Fig.2)

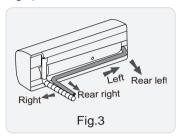


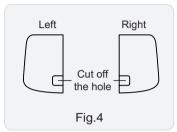
NOTE:

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

4. Outlet Pipe

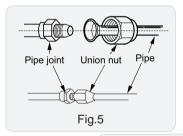
- (1) The pipe can be led out in the direction of right, rear right, left or rear left. (As show in Fig.3)
- (2) When selecting leading out the pipe from left or right, please cut off the corresponding hole on the bottom case. (As show in Fig.4)

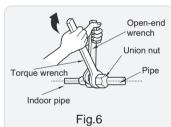


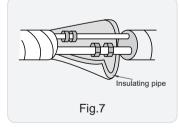


5. Connect the Pipe of Indoor Unit

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





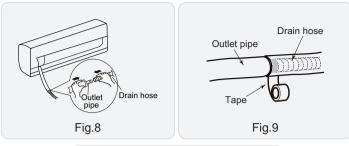


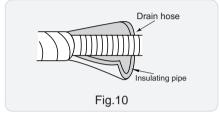
Refer to the following table for wrench moment of force:

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

6. Install Drain Hose

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





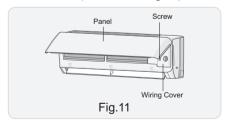
NOTE:

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

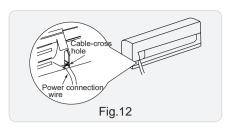
7. Connect Wire of Indoor Unit

NOTICE:

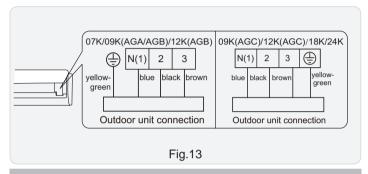
- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.
- (1) Open the panel, remove the screw on the wiring cover and then take down the cover. (As show in Fig.11)



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



- (3) Remove the wire clip; connect the power connection wiresignal control wire (only for cooling and heating unit) to the wiring terminal according to the color; tighten the screw and then fix the power connection wire with wire clip. (As show in Fig.13)
- (4) Put wiring cover back and then tighten the screw.
- (5) Close the panel.



NOTICE:

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

8. Bind up Pipe

- (1) Bind up the connection pipe, power cord and drain hose with the band. (As show in Fig.14) $\,$
- (2) Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose. (As show in Fig.15)
- (3) Bind them evenly.
- (4) The liquid pipe and gas pipe should be bound separately at the end.

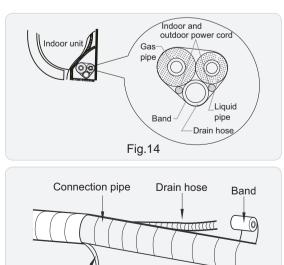


Fig.15

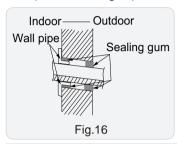
Indoor power cord

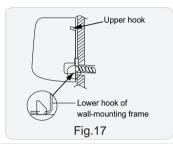
NOTE:

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

9. Hang the Indoor Unit

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





NOTE:

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

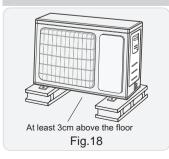
8.6 Installation of Outdoor Unit

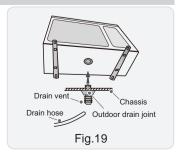
1. Fix the Support of Outdoor Unit (Select it according to the actual installation situation)

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

NOTICE:

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





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

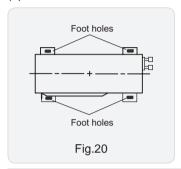
- (1) Connect the outdoor drain joint into the hole on the chassis.
- (2) Connect the drain hose into the drain vent. (As show in Fig.19)

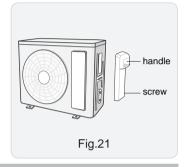
NOTICE:

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

3. Fix Outdoor Unit

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





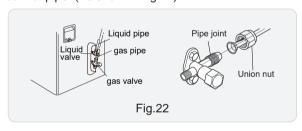
NOTE:

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



4. Connect Indoor and Outdoor Pipes

- (1) Remove the screw on the right handle of outdoor unit and then remove the handle. (As show in Fig.21)
- (2) Remove the screw cap of valve and aim the pipe joint at the bellmouth of pipe. (As show in Fig.22)



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

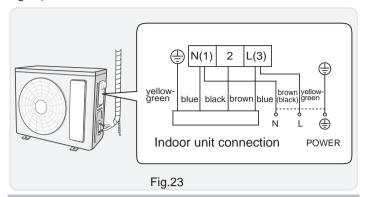
Refer to the following table for wrench moment of force:

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

5. Connect Outdoor Electric Wire

(1) Remove the wire clip; connect the power connection wire and

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



NOTICE:

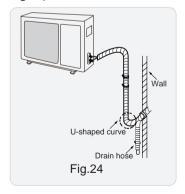
- The wiring board is for reference only, please refer to the actual one.
- (2) Fix the power connection wire and signal control wire with wire clip (only for heat pump models).

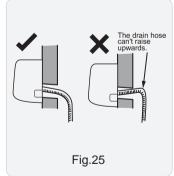
NOTICE:

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

6. Neaten the Pipes

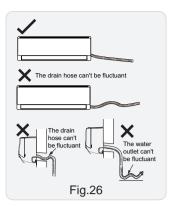
- (1) The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
- (2) If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting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





NOTICE:

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

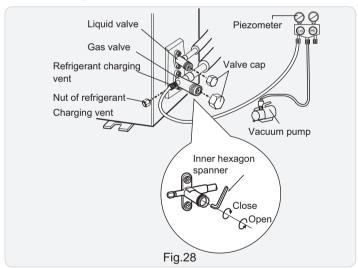




8.7 Vacuum Pumping and Leak Detection

1. Use Vacuum Pump

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



2. Leakage Detection

(1) With leakage detector:

Check if there is leakage with leakage detector.

(2) With soap water:

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

8.8 Check after Installation and Test Operation

1. Check after Installation

Check according to the following requirement after finishing installation.

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

2. Test Operation

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

Installation and Maintenance

9. Maintenance

9.1 Error Code List

Error code	Malfunction name	AC status	Possible causes
25	Malfunction of jumper cap	The complete unit stops operation	Jumper cap is not installed in control panel; Poor contact of jumper cap; Jumper cap is damaged; The tested circuit of jumper cap on control panel is abnormal.
88	Communication malfunction between indoor unit and outdoor unit	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Communication malfunction"
H5	IPM protection	Cool/Dry: compressor stops operation, while indoor fan operates. Heat: all loads stops operation.	See "IPM protection, over-phase current of compressor"
L8	Malfunction of outdoor fan/ malfunction of DC motor	Cool/Dry: all loads stops operation except indoor fan. Heat: all loads stops operation.	 Outdoor condenser, air inlet and air outlet are blocked by filth or dirt; Fan is blocked or loosened; Motor or connection wire of motor is damaged; Main board of outdoor unit is damaged; (As for dual-outdoor fan, L3 indicates fan 1; LA indicates fan 2)
H3	Overload protection of compressor	Cool/Dry: compressor stops operation, while indoor fan operates. Heat: all loads stops operation.	1. Overload wire of compressor is loose; 2. The overload protector is damaged. Under normal circumstances, the resistance between both ends of terminal is less than 10hm. 3. See "Overload protection of compressor, High discharge temperature protection of compressor"
FO	Refrigerant insufficient protection, cut-off protection of refrigerant	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: Compressor, outdoor fan and indoor fan stops operation.	1. Is system cooling under high humidity environment, thus temperature difference of heat transfer is small; 2. Check whether the big valve and small valve of outdoor unit are opened completely; 3. Is the temperature sensor of evaporator of indoor unit loose? 4. Is the temperature sensor of condenser of outdoor unit loose? 5. Is the capillary or the electronic expansion valve blocked? 6. Is refrigerant leaking?
FI	Indoor ambient temperature sensor is open/short-circuited	Cool/Dry: indoor fan operates, while compressor and outdoor fan stops operation; Heat: all loads stops operation.	Temperature sensor is not well connected; Temperature sensor is damaged Main board of indoor unit is damaged.
F2	Indoor evaporator temperature sensor is open/short-circuited	Cool/Dry: indoor fan operates, while compressor and outdoor fan stops operation; Heat: all loads stops operation.	Temperature sensor is not well connected; Temperature sensor is damaged Main board of indoor unit is damaged.
H5	No feedback from indoor unit's motor	The complete unit stops operation	1. Is the fan blocked? 2. Is the motor terminal loose? 3. Is the connection wire of motor damaged? 4. Is the motor damaged? 5. Is the main board of indoor unit damaged?
LP	Indoor unit and outdoor can be matched with each other	Compressor, outdoor unit and indoor fan stops operation.	Capacity of indoor unit and outdoor unit can't be matched.
[4	Malfunction of jumper cap of outdoor unit	Heat: all loads are stopped; other modes: outdoor unit stops operation.	Jumper cap of outdoor unit hasn't been installed.
67	Gas valve temperature sensor is ON / short-circuited		Temperature sensor is not well connected or damaged; The wire of temperature sensor is damaged, causing short circuit to copper pipe or outer casing; Main board of outdoor unit is damaged.

Error code	Malfunction name	AC status	Possible causes
65	Liquid valve temperature sensor is ON / short- circuited		Temperature sensor is not well connected or damaged; The wire of temperature sensor is damaged, causing short circuit to copper pipe or outer casing; Main board of outdoor unit is damaged.
E :	High pressure protection of system	Cool/Dry: all loads stops operation except indoor fan; Heat: all loads stops operation.	1. Heat exchange of outdoor unit is too dirty, or it blocked the air inlet/outlet; 2. Is power voltage normal; (three-phase unit) 3. Ambient temperature is too high; 4. Wiring of high pressure switch is loose or high pressure switch is damaged; 5. The internal system is blocked; (dirt blockage, ice blockage, oil blockage, angle valve is not completely opened) 6. Main board of outdoor unit is damaged; 7. Refrigerant is too much.
£3	Low pressure/low system pressure protection/ compressor low pressure protection	Cool: compressor, outdoor fan and indoor fan stop operation; Heat: compressor and outdoor fan stop operation at first. About 1 minute later, indoor fan stops operation; 2 minutes later, the 4-way valve stop operation.	Low pressure switch is damaged; Refrigerant inside the system is insufficient.
E4	High discharge temperature protection of compressor	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Overload protection of compressor , High discharge temperature protection of compressor"
85	AC overcurrent protection	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates; Heat: all loads stops operation.	1. Power voltage is unstable; 2. Power voltage is too low; 3. System load is too high, which leads to high current; 4. Heat exchange of indoor unit is too dirty, or it blocked the air inlet/outlet; 5. Fan motor operation is abnormal; the fan speed is too low or not functioning; 6. Compressor is blocked; 7. The internal system is blocked; (dirt blockage, ice blockage, oil blockage, angle valve is not completely opened) 8. Main board of outdoor unit is damaged. See "AC overcurrent protection"
E7	Mode shock/sysmte mode shock	Load of indoor unit stops operation (indoor fan, E-heater, swing)	Malfunction of one-to-more system; there may be two indoor units which has set the shock mode, such as one is cooling and the other is heating.
83	High temperature prevention protection	Cool: compressor stops operation while indoor fan operates; Heat: all loads stops operation.	See "High temperature prevention protection; high power; system isabnormal"
88	Malfunction of EEPROM	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Main board of outdoor unit is damaged.
Fo	Refrigerant-recovery mode	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates.	Refrigerant recovery. The maintenance personnel operate it when he is maintaining the unit.
F3	Outdoor ambient temperature is open/short- circuited	Cool/Dry: compressor and outdoor fan stop operation, while indoor fan operates; Heat: all loads stops operation.	Temperature sensor is not connected well or damaged; Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case; Main board of outdoor unit is damaged;

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

Error code	Malfunction name	AC status	Possible causes
оЕ	Undefined outdoor unit error	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 (e.g.: less than 20°C or more than 60°C for cooling; more than 30°C for heating); Are wires of compressor not connected tightly? Failure startup of compressor? Is compressor damaged? Is main board damaged?
28	Communication malfunction between the drive board and the main board	Cool: compressor and outdoor fan stops operation; Heat: compressor and outdoor fan stop at first; about 1 minute later, indoor fan stops operation;	 The drive board is damaged; The main board of outdoor unit is damaged; The drive board and the main board is not connected well.
ρŢ	Circuit malfunction of mod- ule temperature sensor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Replace outdoor control board
Р8	Module overheating protection	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	 Air inlet / air outlet of outdoor unit are blocked by filth or dirt; Condenser of outdoor unit is blocked by filth or dirt; IPM screw of main board is not tightened; Main board of outdoor unit is damaged;
PF	Malfunction of ambient temperature sensor of drive board	Cool: compressor, outdoor fan and indoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The ambient temperature sensor of the drive board is not connected well; Malfunction of the ambient temperature sensor of drive board.
PH	DC bus voltage is too high	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Measure the voltage between position L and position N on the wiring board (XT). If it's higher than 265 VAC, please turn on the unit until the power voltage is decreased to the normal range; If the AC input is normal, please replace the outdoor control board.
PL	DC bus voltage is too low	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Measure the voltage between position L and position N on the wiring board (XT). If it's lower than 150 VAC, please turn on the unit until the power voltage is increased to the normal range; If the AC input is normal, please replace the outdoor control board.
ՔԱ	Charging malfunction of capacitor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Charging malfunction of capacitor"
rF	Malfunction of RF module	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The connection wire of RF module is not connected well. Malfunction of RF module;
U I	Phase current detection circuit malfunction of	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stops operation.	The control board is damaged
U2	Lost phase protection of compressor	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The main board of outdoor unit is damaged; The compressor is damaged; The connection wire of compressor is not connected well.

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

Analysis or processing of some of the malfunction display:

1. Compressor discharge protection

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

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

2. Low voltage overcurrent protection

Possible cause: Sudden drop of supply voltage.

3. Communication malfunction

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

4. Sensor open or short circuit

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

5. Compressor over load protection

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

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

6. System malfunction

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

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

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

7. IPM module protection

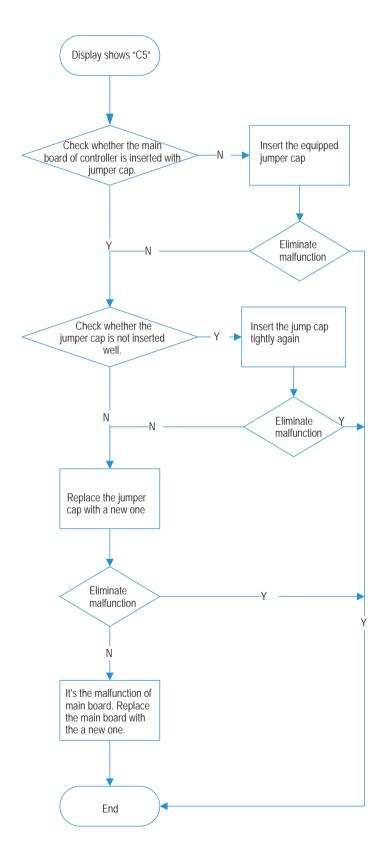
Processing method: Once the module malfunction happens, if it persists for a long time and can not be self-canceled, cut off the power and turn off the unit, and then re-energize the unit again after about 10 min. After repeating the procedure for sever times, if the malfunction still exists, replace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

9.2 Procedure of Troubleshooting

1. Troubleshooting for jumper cap [5

Main check points:

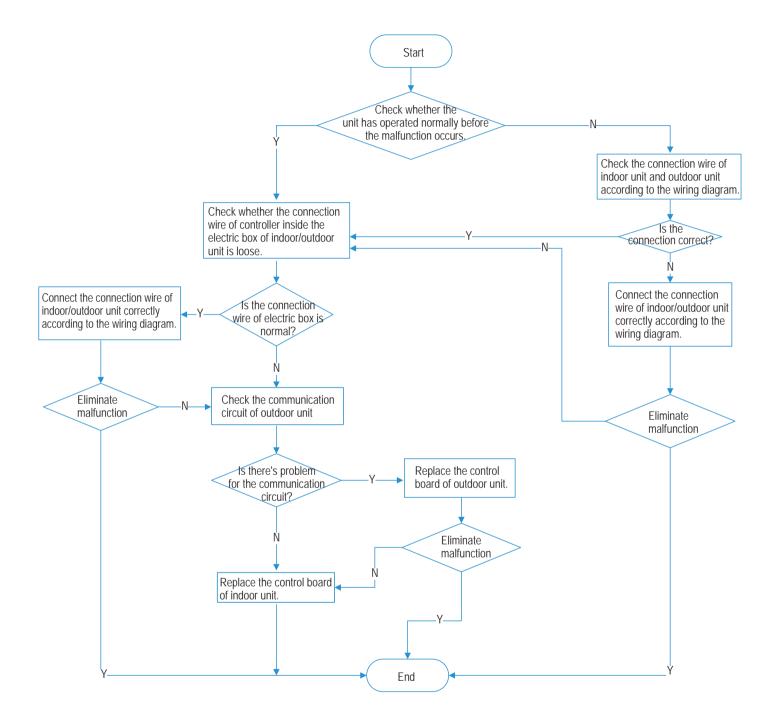
(1) jumper cap (2) control board of indoor unit



2. Communication malfunction &&

Main check points:

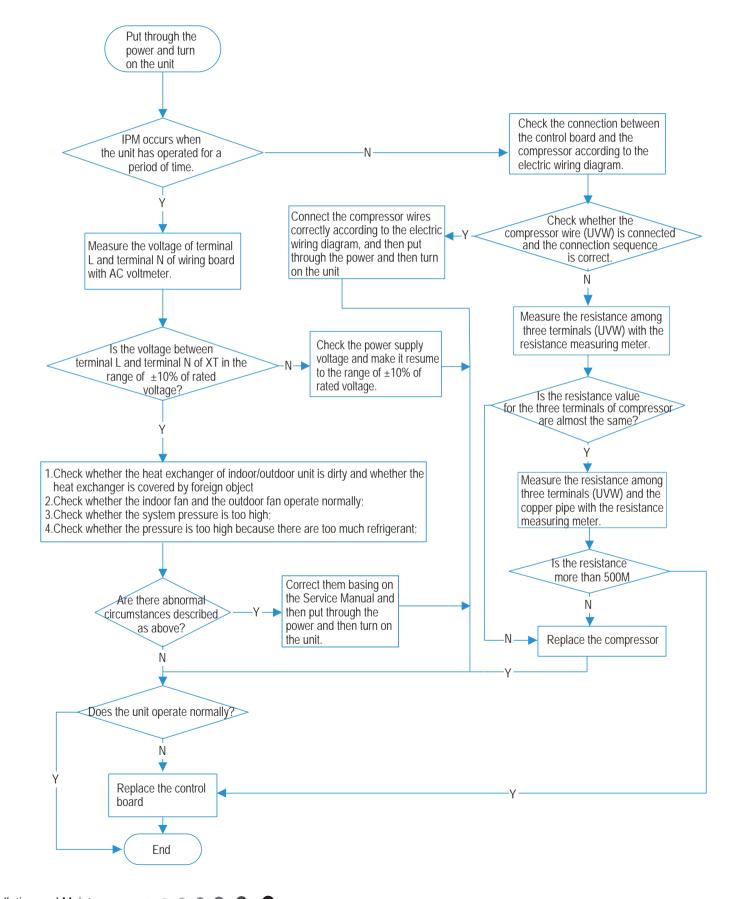
- (1) Connection wire between indoor unit and outdoor unit
- (2) Wiring inside the unit
- (3) Communication circuit of control board of indoor unit
- (4) Communication circuit of control board of outdoor unit



3. IPM protection 45, over-phase current of compressor 25

Main check points:

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



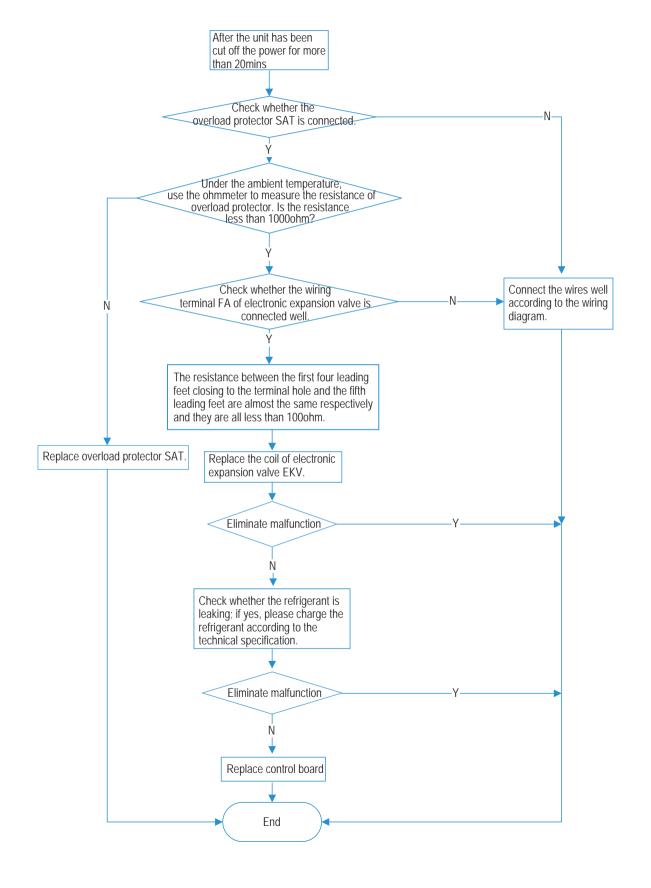
4. Overload protection of compressor H3, high discharge temperature, protection of compressor E4

Main check points:

(1) electronic expansion valve (2) expansion valve terminal

(3) charging amount of refrigerant (4) overload protector

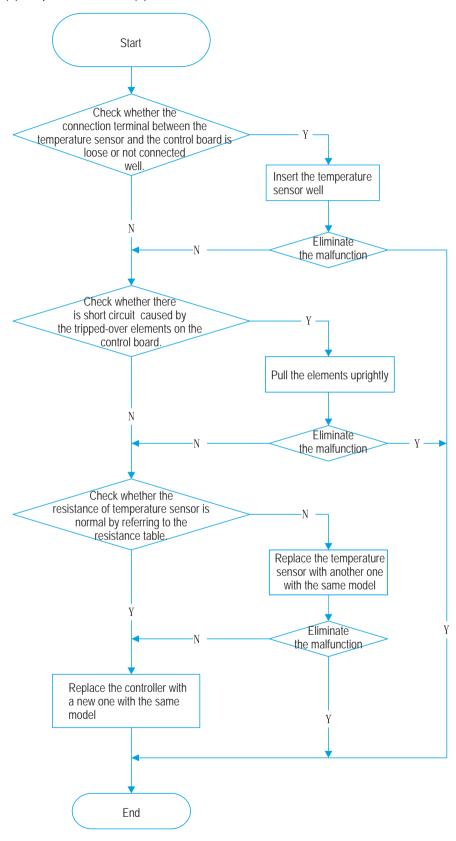
NOTE: The control board as below means the control board of outdoor unit.



5. Troubleshooting for temperature sensor F 4,F2,F3,F4,F5

Main check points:

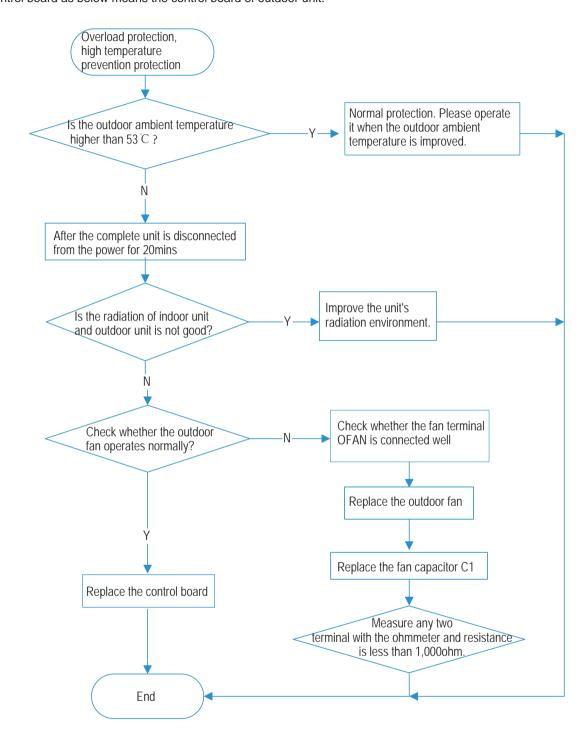
(1) connection terminal (2) temperature sensor (3) main board



6. High temperature prevention protection £8; high power £9; system is abnormal 89

Main check points:

(1) outdoor temperature (2) fan (3)air inlet and air outlet of indoor/outdoor unit NOTE: The control board as below means the control board of outdoor unit.

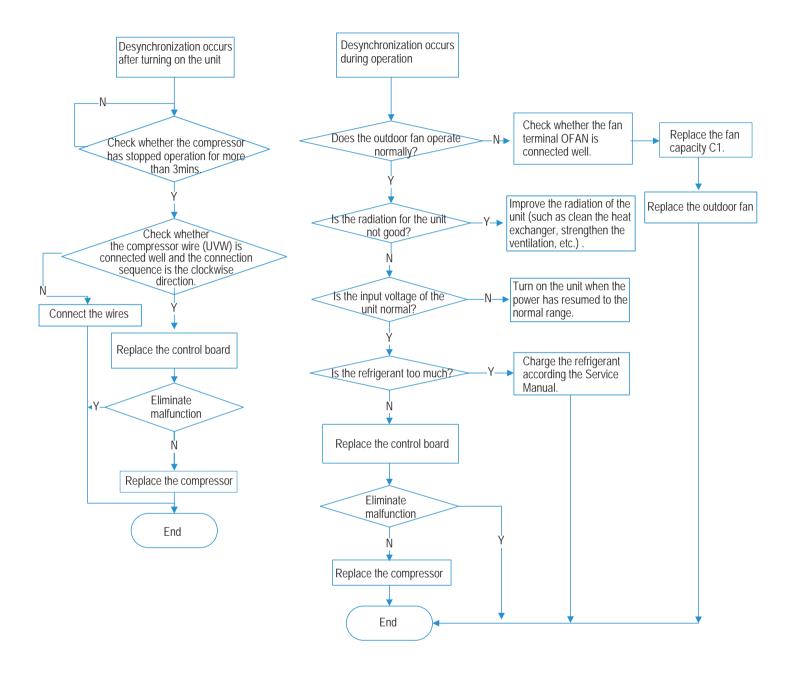


7. Desynchronization diagnosis for compressor #7

Main check point:

(1) system pressure (2) power supply voltage

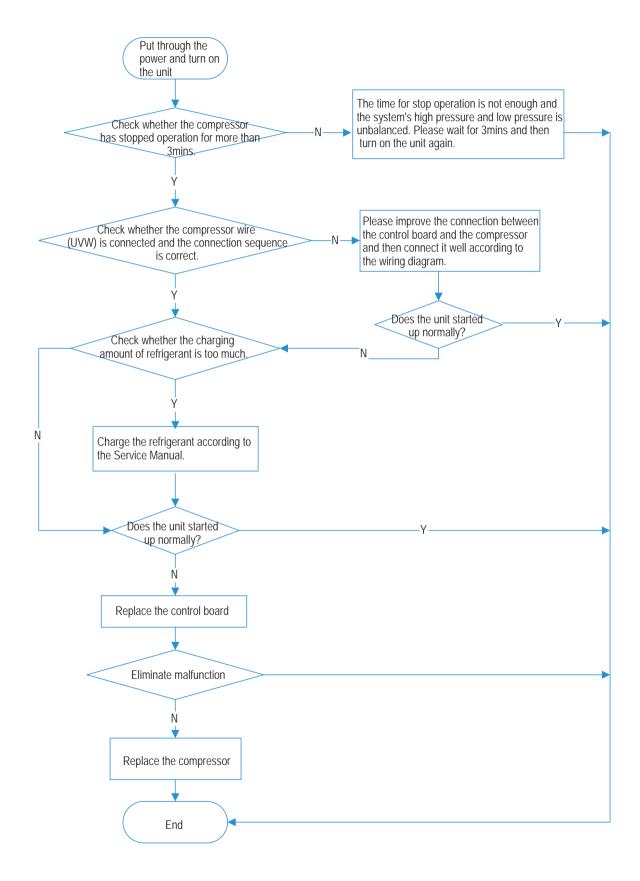
NOTE: The control board as below means the control board of outdoor unit.



8. Malfunction diagnosis for failure startup Lc

Main check points:

(1) compressor wire (2) compressor (3) charging amount of refrigerant NOTE: The control board as below means the control board of outdoor unit.

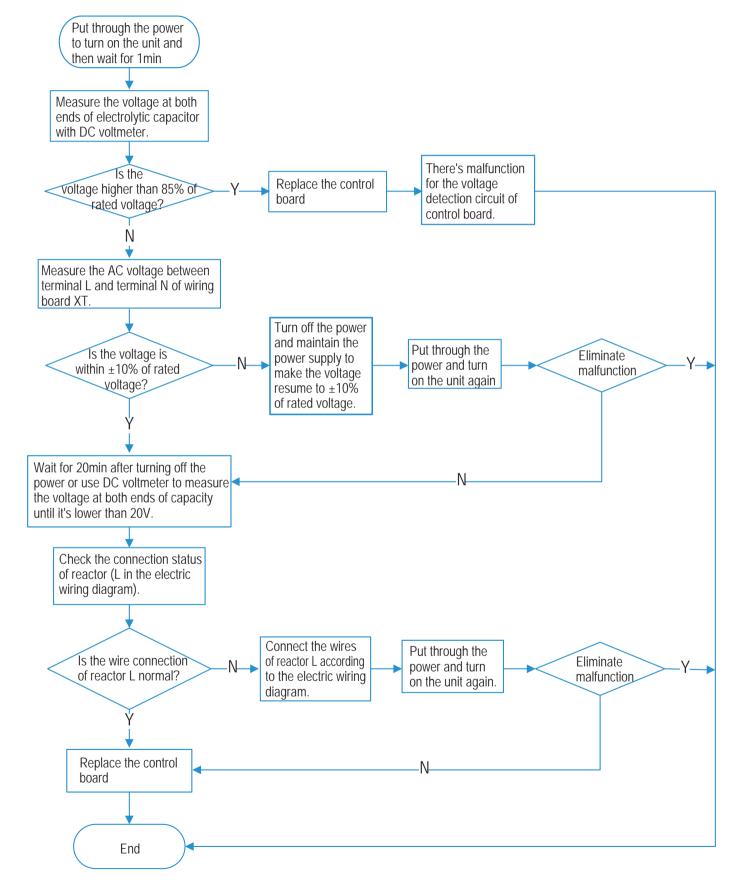


9. Charging malfunction of capacitor PU

Main check points:

(1) wiring board XT (2) reactor

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

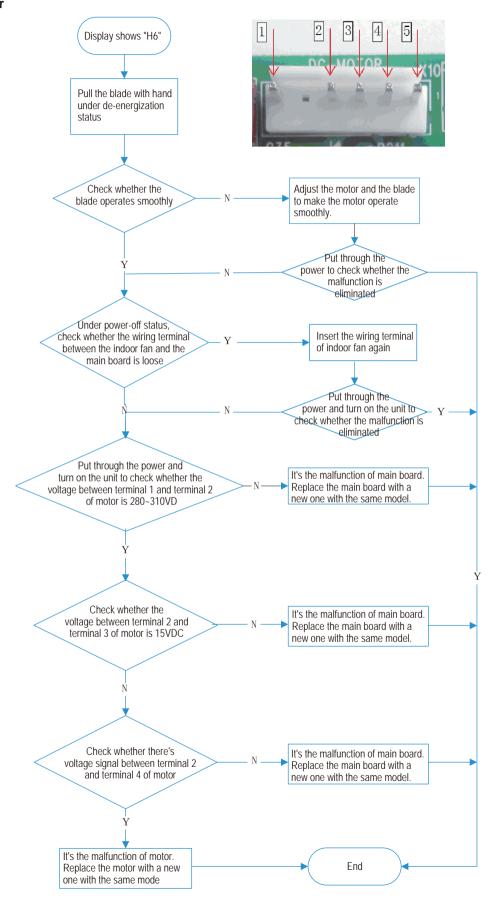


10. Troubleshooting-motor(indoor fan) doesn't operate 45

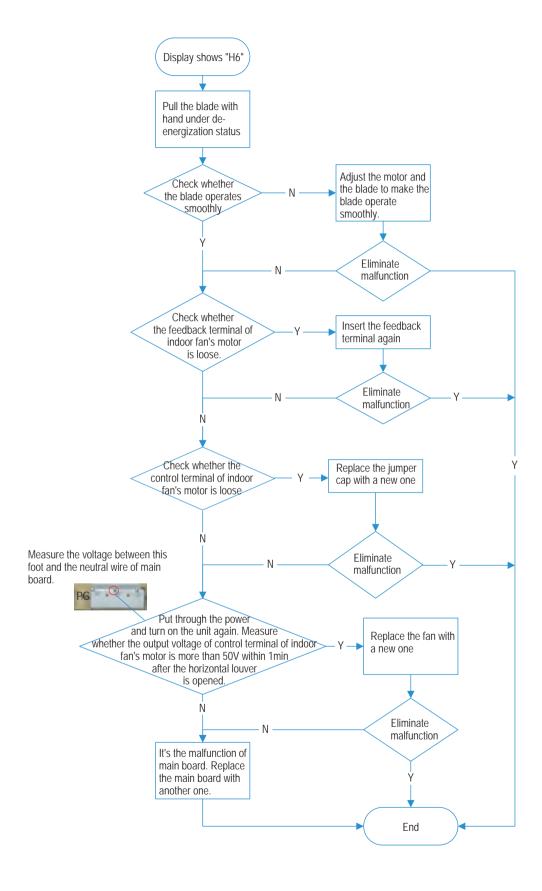
Main check points:

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

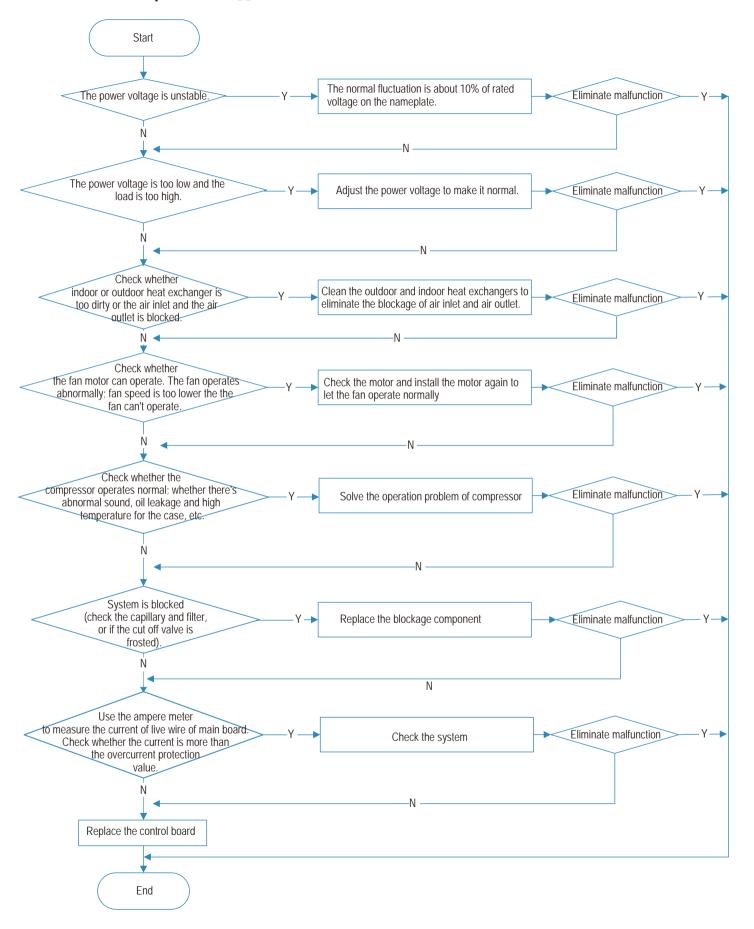
10.1 DC motor



10.2 PG motor



11. AC overcurrent protection §5



9.3 Troubleshooting for Normal Malfunction

1. Air Conditioner can't be Started Up

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

2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see its blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation position is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rain- proof and sunproof for outdoor unit
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Units pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add refrigerant.
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unit pressure is much lower than regulated range. If refrigerant isn't leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver can't swing	Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor	The IDU fan motor can't operate	Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor	The ODU fan motor can't operate	Refer to point 4 of maintenance method for details
Malfunction of compressor	Compressor can't operate	Refer to point 5 of maintenance method for details

3. Horizontal Louver can't Swing

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

4. ODU Fan Motor can't Operate

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

5. Compressor can't Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Capacity of compressor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the compressor capacitor
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Coil of compressor is burnt out	Use universal meter to measure the resistance between compressor terminals and it's 0	Repair or replace compressor
Cylinder of compressor is blocked	Compressor can't operate	Repair or replace compressor

6. Air Conditioner is Leaking

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

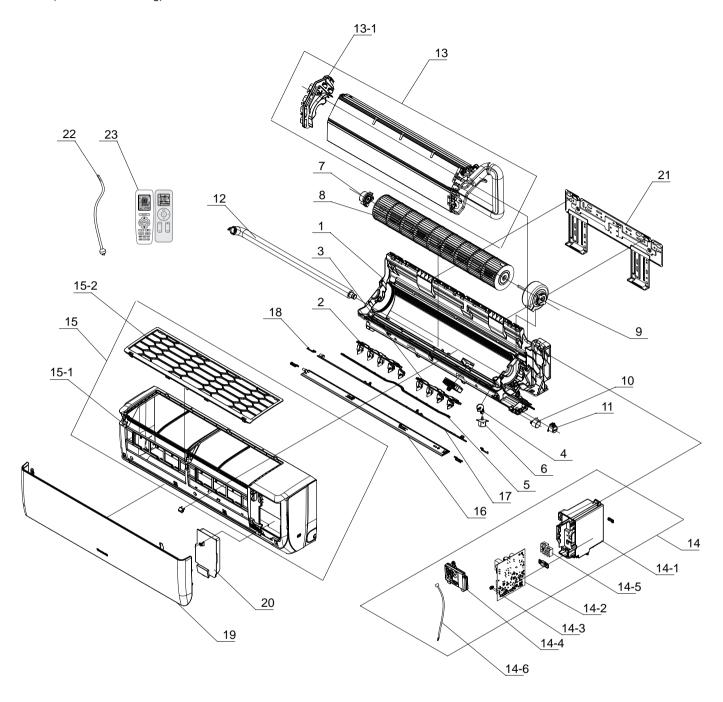
7. Abnormal Sound and Vibration

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

10. Exploded View and Parts List

10.1 Indoor Unit

AGA/AGB (4-Dimension Swing)

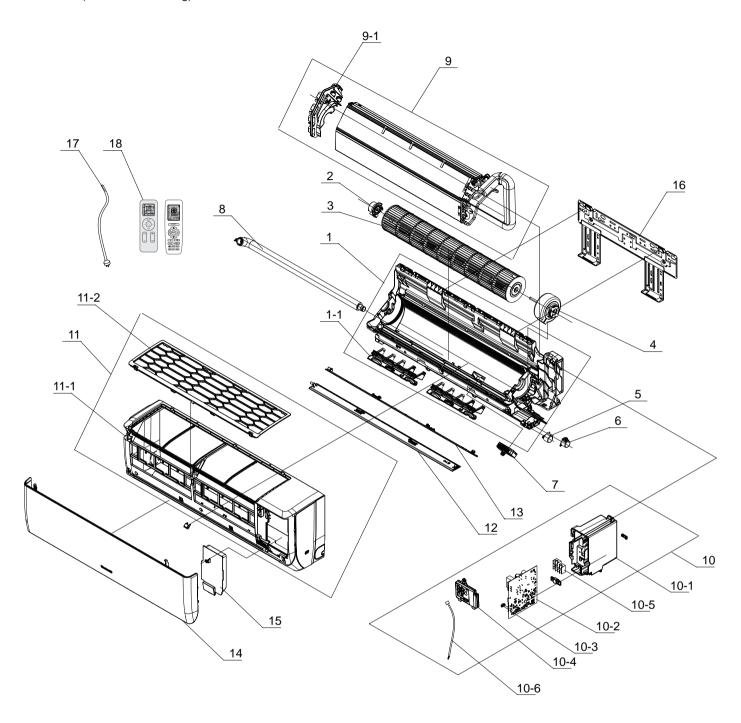


The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Rear Case Sub-Assy
2	Air Louver (left)
3	Air Louver(right)
4	Air Louver
5	Swing Lever
6	Stepping Motor
7	Axile Bush Sub-assy
8	Cross Flow Fan
9	Fan Motor
10	Stepping Motor
11	Stepping Motor
12	Drainage Hose
13	Evaporator Assy
13-1	Evaporator Support
14	Electric Box Assy
14-1	Electric Box

NO.	Description
14-2	Main Board
14-3	Jumper
14-4	Display Board
14-5	Terminal Board
14-6	Temperature Sensor
15	Front Case Assy
15-1	Front Case
15-2	Filter Sub-Assy
16	Guide Louver (upper)
17	Guide Louver (lower)
18	Plug Pin
19	Front Panel
20	Electric Box Cover
21	Wall Mounting Frame
22	Power Cord
23	Remote Controller

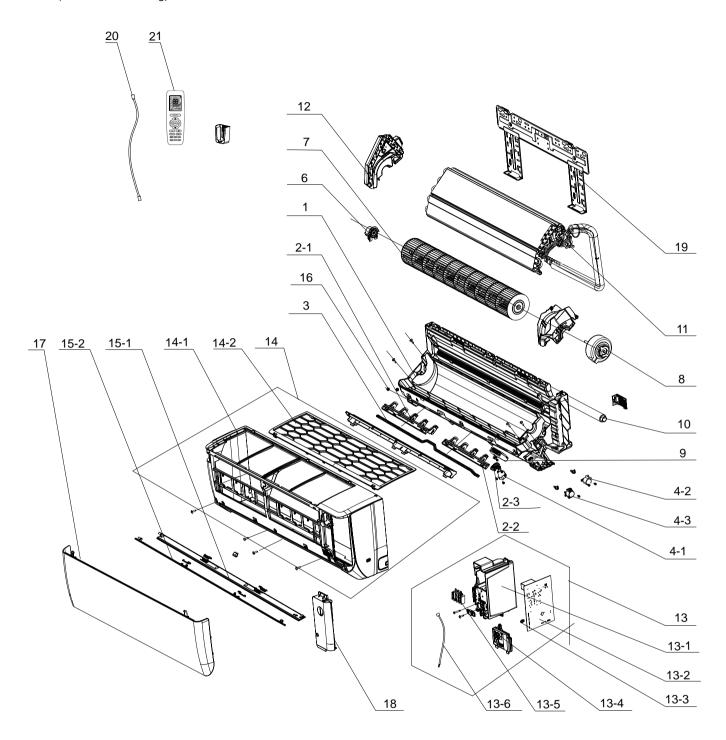
AGA/AGB (Vertical Auto Swing)



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

NO.	Description
1	Rear Case Sub-Assy
1-1	Air Louver
2	Axile Bush Sub-assy
3	Cross Flow Fan
4	Fan Motor
5	Stepping Motor MP24BA
6	Stepping Motor MP24AK
7	Plasmacluster Ion
8	Drainage Hose
9	Evaporator Combination Assy
9-1	Evaporator Support
10	Electric Box Assy
10-1	Electric Box
10-2	Main Board

NO.	Description
10-3	Jumper
10-4	Display Board
10-5	Terminal Board
10-6	Temperature Sensor
11	Front Case Assy
11-1	Front Case
11-2	Filter Sub-Assy
12	Guide Louver Sub-assy (upper)
13	Guide Louver Sub-assy (lower)
14	Front Pane
15	Electric Box Cover2
16	Wall Mounting Frame Sub-assy
17	Power Cord
18	Remote Controller

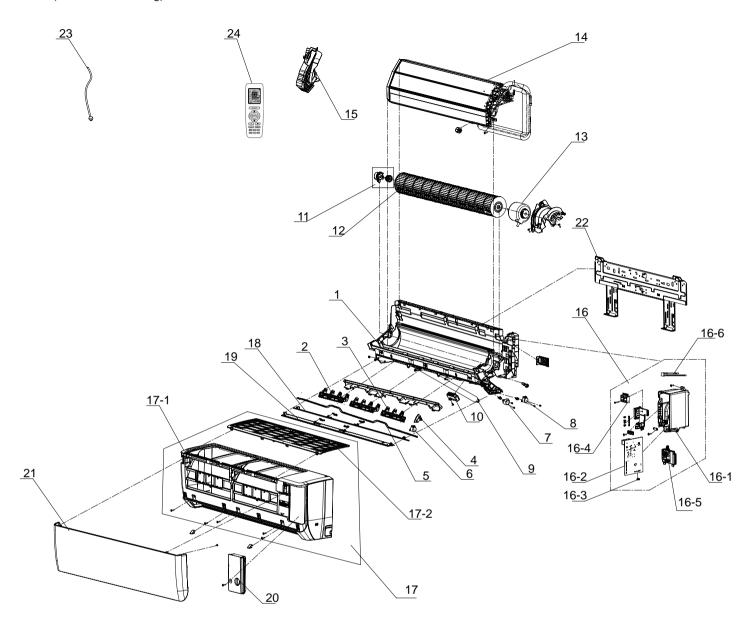


The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Rear Case Sub-Assy
2-1	Air Louver(Left)
2-2	Air Louver(Right)
2-3	Air Louver (Auto)
3	Swing Lever
4-1	Stepping Motor
4-2	Stepping Motor
4-3	Stepping Motor
6	Axile Bush Sub-assy
7	Cross Flow Fan
8	Fan Motor
9	Plasmacluster Ion
10	Drainage Hose
11	Evaporator Assy
12	Evaporator Support
13	Electric Box Assy
13-1	Electric Box

NO.	Description
13-2	Main Board
13-3	Jumper
13-4	Display Board
13-5	Terminal Board
13-6	Temperature Sensor
14	Front Case Assy
14-1	Front Case
14-2	Filter Sub-Assy
15-1	Guide Louver (lower)
15-2	Guide Louver (upper)
16	Axile Bush
17	Front Panel
18	Electric Box Cover
19	Wall Mounting Frame
20	Power Cord
21	Remote Controller

AGD (4-Dimension Swing)

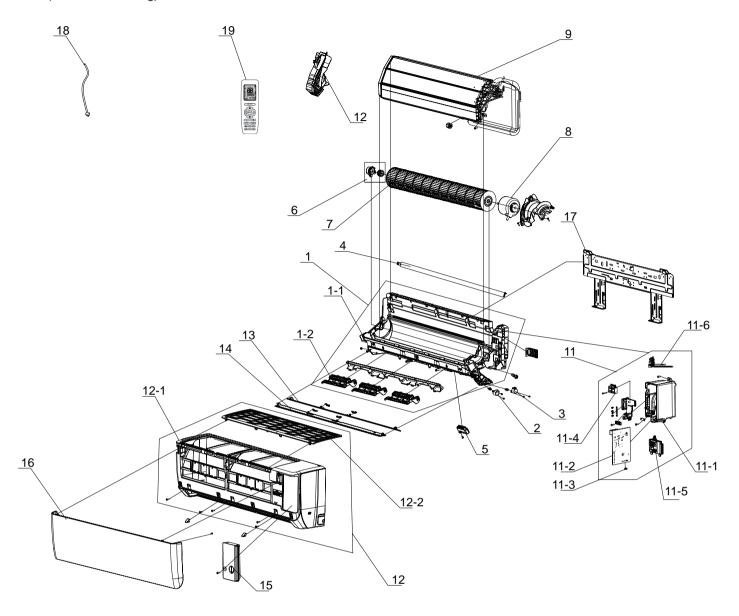


The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Rear Case Sub-Assy
2	Air Louver 1
3	Air Louver 2
4	Air Louver
5	Swing Lever
6	Stepping Motor
7	Stepping Motor
8	SteppingMotor
9	Drainage Hose
10	Plasma Bunch Ion
11	Axile Bush Sub-assy
12	Cross Flow Fan
13	Motor
14	Evaporator Assy
15	Evaporator Support
16	Electric Box Assy

NO.	Description
16-1	Electric Box
16-2	Main Board
16-3	Jumper
16-4	Terminal Board
16-5	Display Board
16-6	Temperature Sensor
17	Front Case Assy
17-1	Front Case
17-2	Filter Sub-Assy
18	Guide Louver Sub-assy 1
19	Guide Louver Sub-assy 2
20	Electric Box Cover
21	Front Panel Assy
22	Wall Mounting Frame Sub-assy
23	Power Cord
24	Remote Controller

AGD (Vertical Auto Swing)

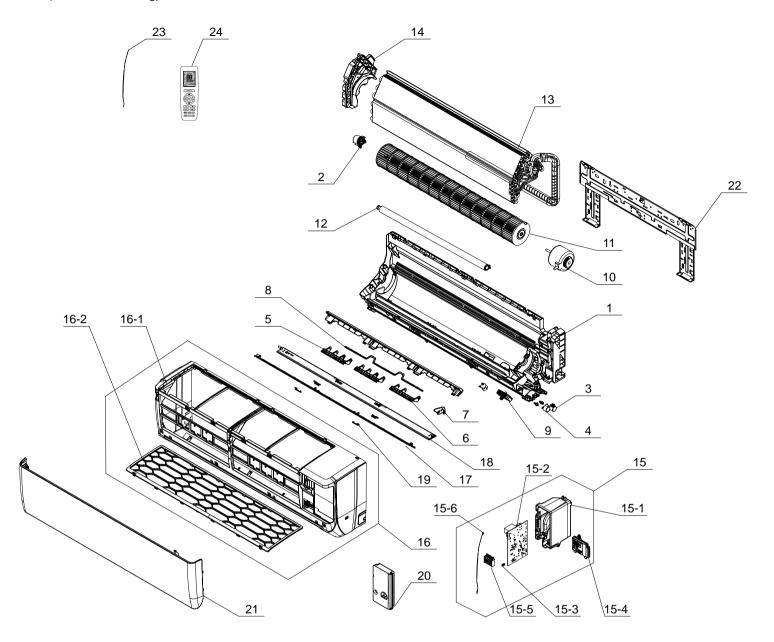


The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Rear Case Sub-Assy
1-1	Rear Case
1-2	Air Louver(Manual)
2	Stepping Motor
3	SteppingMotor
4	Drainage Hose
5	Plasma Bunch Ion
6	Axile Bush Sub-assy
7	Cross Flow Fan
8	Motor
9	Evaporator Assy
10	Evaporator Support
11	Electric Box Assy
11-1	Electric Box
11-2	Main Board

NO.	Description
11-3	Jumper
11-4	Terminal Board
11-5	Display Board
11-6	Temperature Sensor
12	Front Case Assy
12-1	Front Case
12-2	Filter Sub-Assy
13	Guide Louver Sub-assy 1
14	Guide Louver Sub-assy 2
15	Electric Box Cover
16	Front Panel Assy
17	Wall Mounting Frame Sub-assy
18	Power Cord
19	Remote Controller

AGE (4-Dimension Swing)



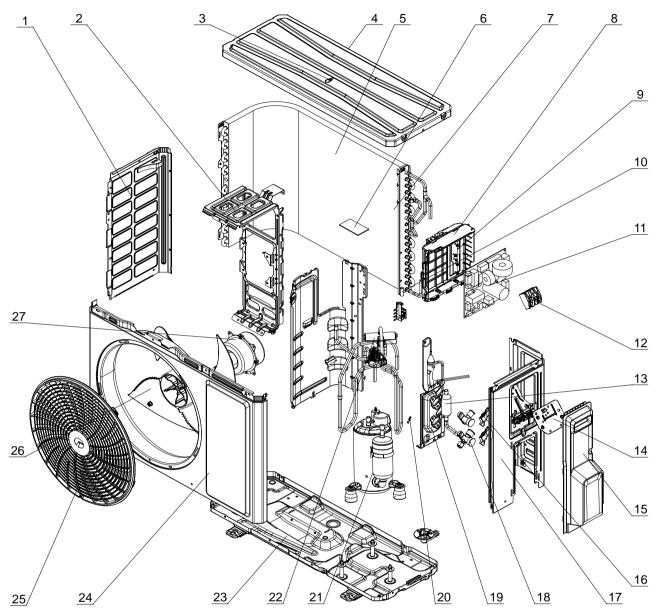
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Rear Case Sub-Assy
2	Axile Bush Sub-assy
3	Stepping Motor
4	Stepping Motor
5	Air Louver 1
6	Air Louver 1
7	Air Louver
8	Swing Lever
9	Plasma Bunch Ion
10	Fan Motor
11	Cross Flow Fan
12	Drainage Hose
13	Evaporator Assy
14	Evaporator Support
15	Electric Box Assy
15-1	Electric Box

NO.	Description
15-2	Main Board
15-3	Jumper
15-4	Display Board
15-5	Terminal Board
15-6	Temperature Sensor
16	Front Case Assy
16-1	Front Case
16-2	Filter Sub-Assy
17	Guide Louver (upper)
18	Guide Louver (lower)
19	Axile Bush
20	Electric Box Cover
21	Front Panel Assy
22	Wall Mounting Frame
23	Power Cord
24	Remote Controller

10.2 Outdoor Unit

GWH07AGA-K6DNA1A/O



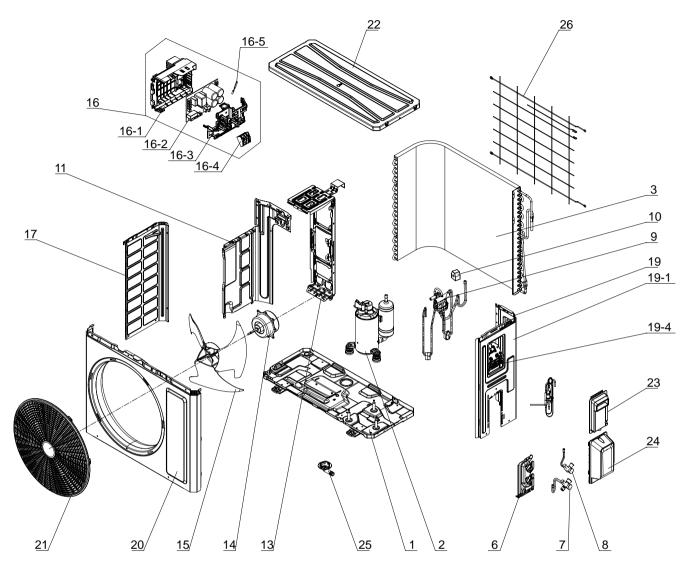
The component is only for rererence; please refer to the actual product

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

NO.	Description
19	Valve Support
20	Sensor Insert
21	Compressor and Fittings
22	4-Way Valve Assy
23	Chassis Sub-Assy
24	Cabinet
25	Front Grill
26	Axial Flow Fan
27	Fan Motor

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



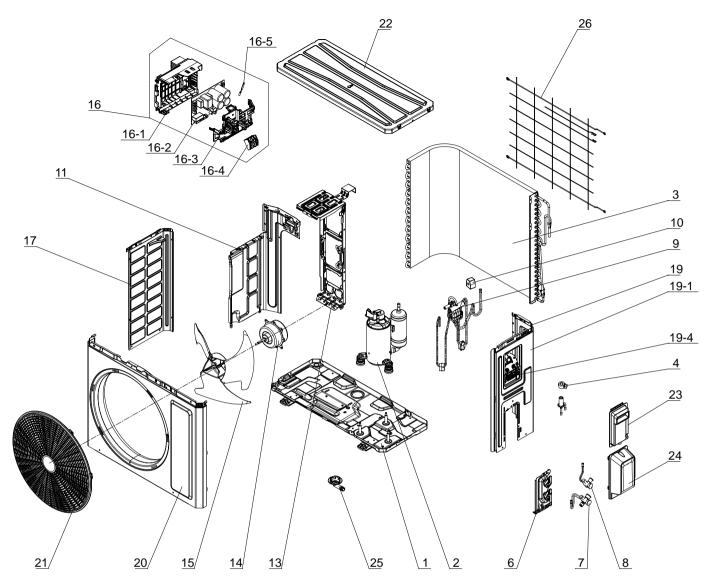
The component is only for rererence; please refer to the actual product

NO.	Description
1	Chassis Sub-assy
2	Compressor and Fittings
3	Condenser Assy
4	Electric Expand Valve Fitting
6	Valve Support
7	Cut-off valve (Big)
8	Cut-off valve (Small)
9	4-Way Valve Assy
10	Magnet Coil
11	Clapboard

NO.	Description
13	Motor Support
14	Motor
15	Axial Flow Fan
16	Electric Box Assy
16-1	Electric Box
16-2	Main Board
16-3	Electric Box Cover
16-4	Terminal Board
16-5	Temperature Sensor
17	Left Side Plate

NO.	Description
19	Right Side Plate Assy
19-1	Right Side Plate
19-4	Wire Clamp
20	Cabinet
21	Front Grill
22	Top Cover Assy
23	Handle (Right)
24	Valve Cover
25	Drainage Joint
26	Rear Grill

GWH12AFC-K6DNA2F/O GWH09ACCXB-K6DNA1G/O



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

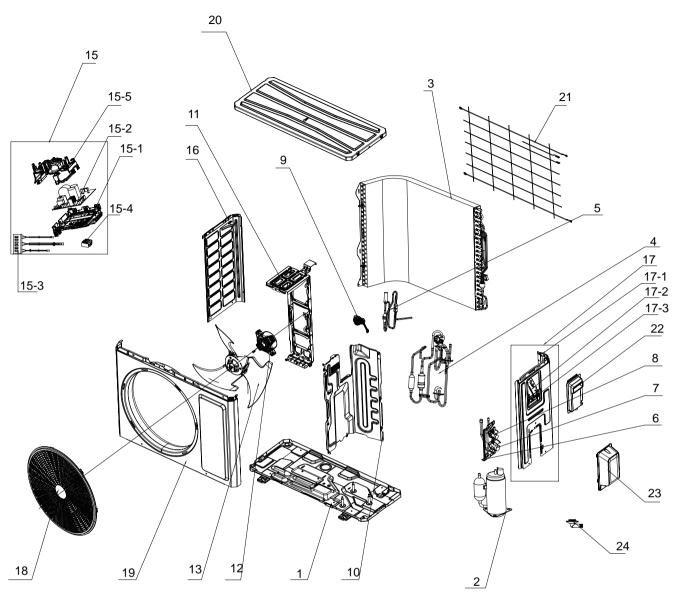
NO.	Description
1	Chassis Sub-assy
2	Compressor and Fittings
3	Condenser Assy
4	Electric Expand Valve Fitting
6	Valve Support
7	Cut-off valve (Big)
8	Cut-off valve (Small)
9	4-Way Valve Assy
10	Magnet Coil
11	Clapboard

NO.	Description
13	Motor Support
14	Motor
15	Axial Flow Fan
16	Electric Box Assy
16-1	Electric Box
16-2	Main Board
16-3	Electric Box Cover
16-4	Terminal Board
16-5	Temperature Sensor
17	Left Side Plate

NO.	Description
19	Right Side Plate Assy
19-1	Right Side Plate
19-4	Wire Clamp
20	Cabinet
21	Front Grill
22	Top Cover Assy
23	Handle (Right)
24	Valve Cover
25	Drainage Joint
26	Rear Grill

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

GWH18AGD-K6DNA1E/O



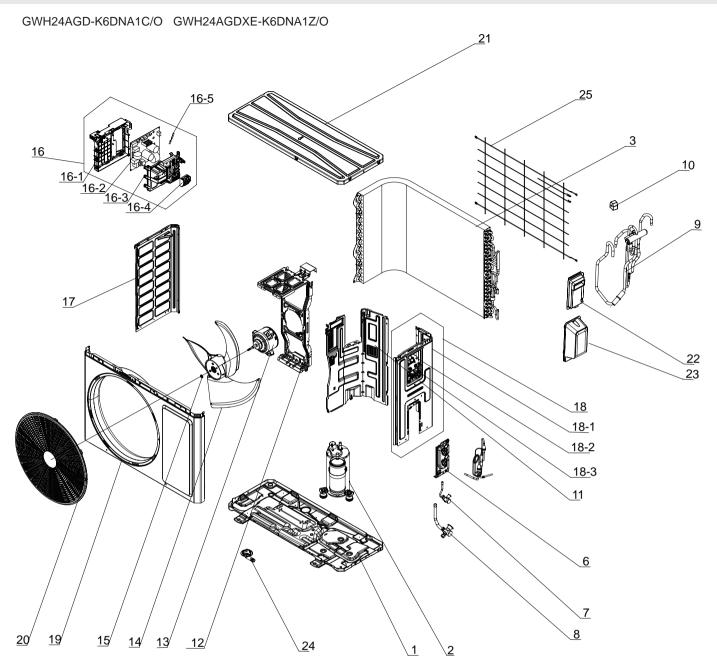
The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Chassis Sub-assy
2	Compressor and Fittings
3	Condenser Assy
4	4-Way Valve Assy
5	Electric Expand Valve Sub-assy
6	Valve Support
7	Cut-off valve (Big)
8	Cut-off valve (Small)
9	Electric Expand Valve Fitting
10	Clapboard
11	Motor Support

NO.	Description
12	Fan Motor
13	Axial Flow Fan
14	Magnet Coil
15	Electric Box Assy
15-1	Electric Box
15-2	Main Board
15-3	Temperature Sensor
15-4	Terminal Board
15-5	Electric Box Cover
16	Left Side Plate
17	Right Side Plate Assy

NO.	Description
17-1	Right Side Plate
17-2	Earthing Plate Sub-assy
17-3	Wire Clamp
18	Front Grill
19	Cabinet
20	Top Cover Assy
21	Rear Grill
22	Handle (Right)
23	Valve Cover
24	Drainage Joint

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

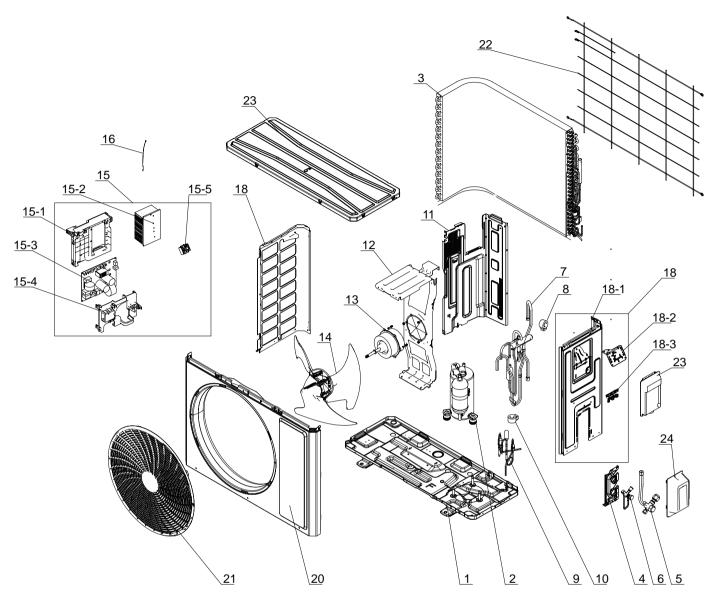


The component picture is only for reference; please refer to the actual product.

NO.	Description
1	Chassis Sub-assy
2	Compressor and Fittings
3	Condenser Assy
6	Valve Support
7	Cut-off valve
8	Cut-off valve
9	4-Way Valve Assy
10	Magnet Coil
11	Clapboard
12	Motor Support
13	Fan Motor

NO.	Description
14	Axial Flow Fan
15	Block gasket
16	Electric Box Assy
16-1	Electric Controller Box
16-2	Main Board
16-3	Controller Cover
16-4	Terminal Board
16-5	Temperature Sensor
17	Left Side Plate
18	Right Side Plate Assy
18-1	Right Side Plate

NO.	Description
18-2	Earthing Plate Sub-assy
18-3	Wire Clamp
19	Cabinet
20	Front Grill
21	Top Cover Assy
22	Handle (Right)
23	Valve Cover
24	Drainage Joint
25	Rear Grill



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

NO.	Description
1	Chassis Sub-assy
2	Compressor and Fittings
3	Condenser Assy
4	Valve Support
5	Cut-off valve big
6	Cut-off valve small
7	4-Way Valve Assy
8	Magnet Coil
9	Electric Expansion Valve Sub- Assy
10	Electric Expand Valve Fitting

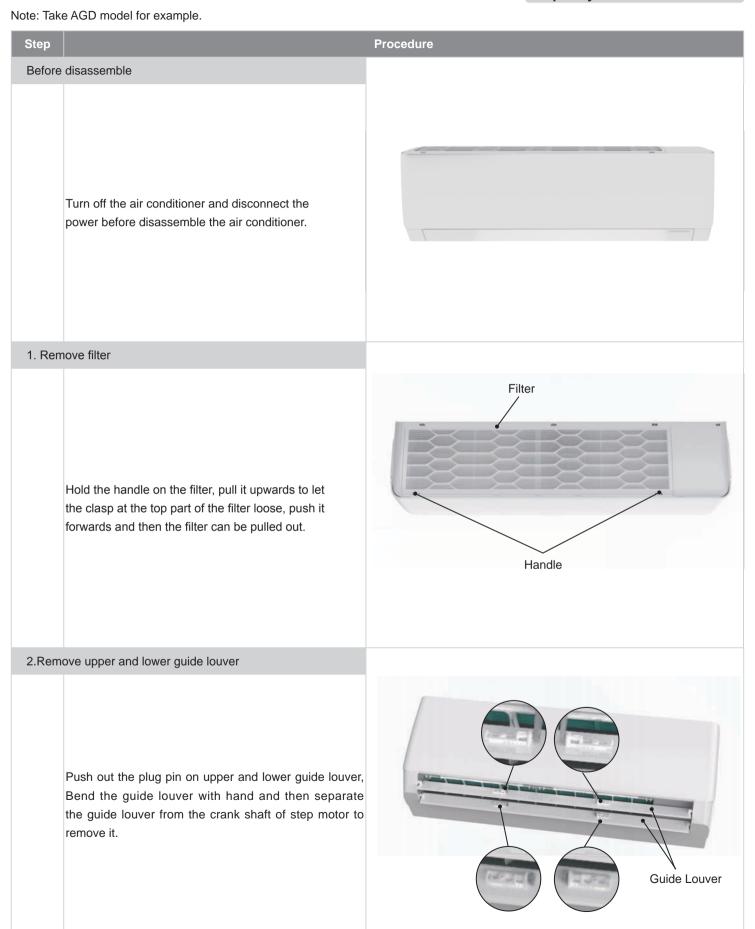
NO.	Description
11	Clapboard
12	Motor Support
13	Motor
14	Axial Flow Fan
15	Electric Box Assy
15-1	Electric Box
15-2	Radiator
15-3	Main Board
15-4	Electric Box Cover
15-5	Terminal Board
16	Temperature Sensor

NO.	Description
17	Left Side Plate
18	Right Side Plate Assy
18-1	Right Side Plate
18-2	Earthing Plate Sub-assy
18-3	Wire Clamp
19	Front Panel
20	Grill
21	Rear Grill
22	Top Cover Assy
23	Handle
24	Valve Cover

11. Removal Procedure

11.1 Removal Procedure of Indoor Unit

Caution: discharge the refrigerant completely before removal.

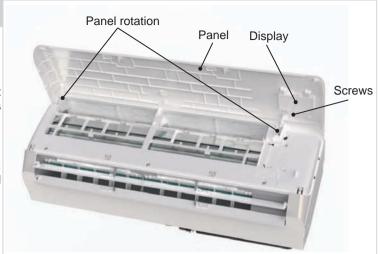


3.Remove panel

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

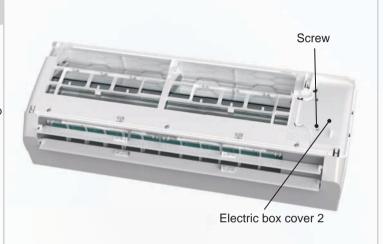
Note:

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

а

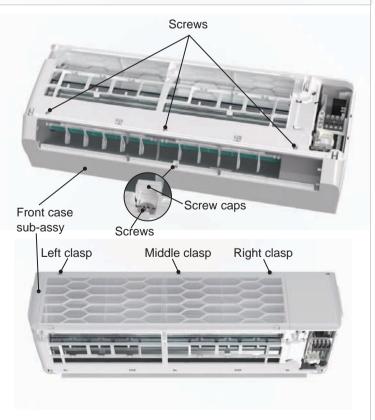
Remove the screws fixing front case.

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

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 assy Screws temperature sensor b Main ① Cut off the wire binder and pull out the board indoor tube temperature sensor. Wiring terminal of motor 2 Screw off one grounding screw. Wire 3 Remove the wiring terminals of motor, cold plasma binder generator and stepping motor. Wiring terminal of cold plasma 4 Remove the electric box assy. generator ⑤ Screw off the screws that are locking each. Wiring terminal Grounding of stepping motor screw С AGA AGB AGC Rotate the electric box assy. Twist off the screws that are locking the wire clip and loosen the power cord. Remove the wiring terminal of power cord. Lift up the main board and take it off. (NOTE: This step is only available to the unit which is Wire clip Power cord Screw indoor power supply.) AGD AGE Instruction:Some wiring terminal of this products is with lock catch and other devices. The pulling method is as below: Holder Circlip. 1.Remove the soft sheath for some terminals at first, hold the circlip and then pull out the terminals, 2.Pull out the holder for some terminals at first(holder is not available for some wiring terminal).hold the connector and then pull the terminal. Connector Soft sheath

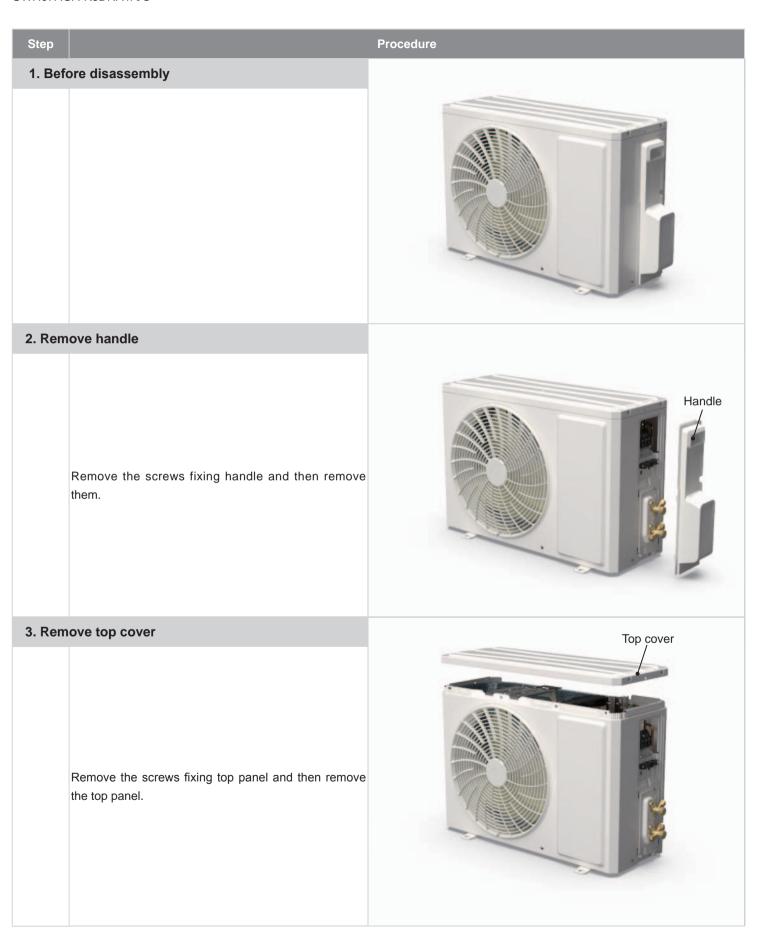
Step Procedure 7.Remove panel Remove 3 screws fixing evaporator assy. b At the back of the unit, Loosen the clasp of the connection pipe clamp and then remove the connection pipe clamp. First remove the left side of evaporator from С the groove of bottom shell and then remove the right side from the 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

GWH07AGA-K6DNA1A/O

Caution: discharge the refrigerant completely before removal.



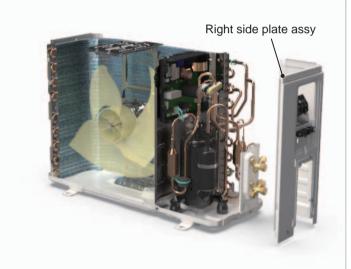
4. Remove front panel assy

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.

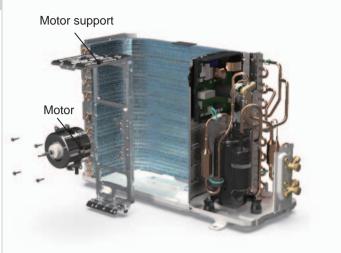


Axial flow fan

7. Remove motor support and motor

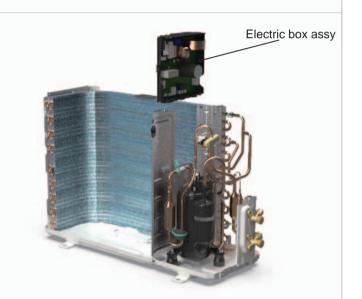
Remove the screws fixing the motor support and lift the motor support to remove it.

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.



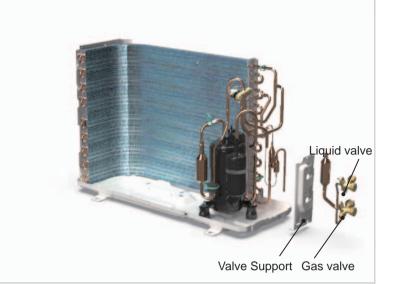
140 • • • • Installation and Maintenance

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.



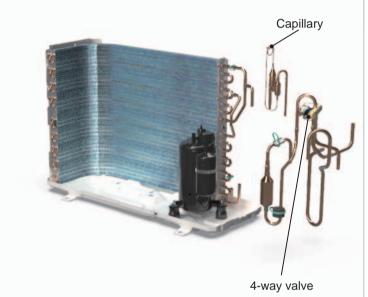
11. Remove 4-way valve and capillary

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.

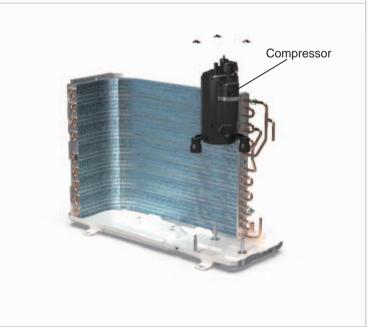
Note:

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.



GWH09AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA1A/O GWH12AGBXB-K6DNA4C/O GWH18AGDXB-K6DNA1Z/O GWH09AGAXB-K6DNA1B/O GWH12AGCXB-K6DNA1A/O GWH12AGBXB-K6DNA1Z/O GWH09AGBXB-K6DNA1E/O

GWH09AFC-K6DNA2F/O GWH18AGD-K6DNA1D/O GWH12ATCXB-K6DNA4G/O Caution: discharge the refrigerant completely before removal.

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

Remove the screws fixing top panel and then remove the top panel.



Installation and Maintenance

Big handle

Valve cover

Step

4. Remove front panel assy

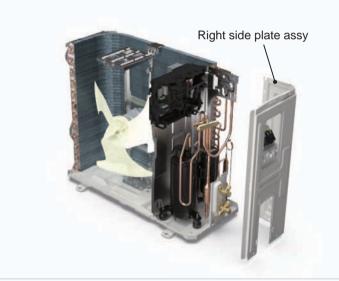
Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



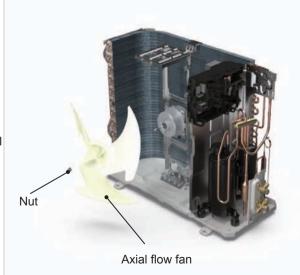
Procedure

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.



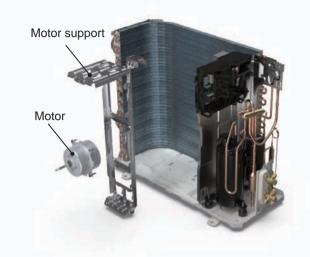
6. Remove axial flow fan



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.



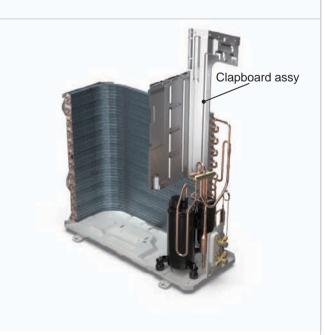
8. Remove electric box assy

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.



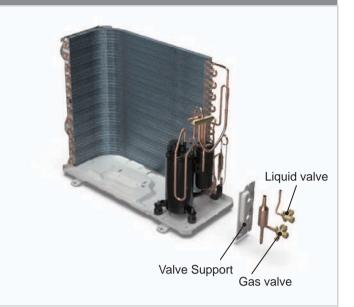
Step

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.



Procedure

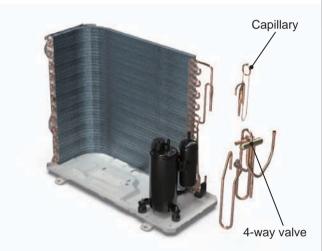
11. Remove 4-way valve and capillary

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.

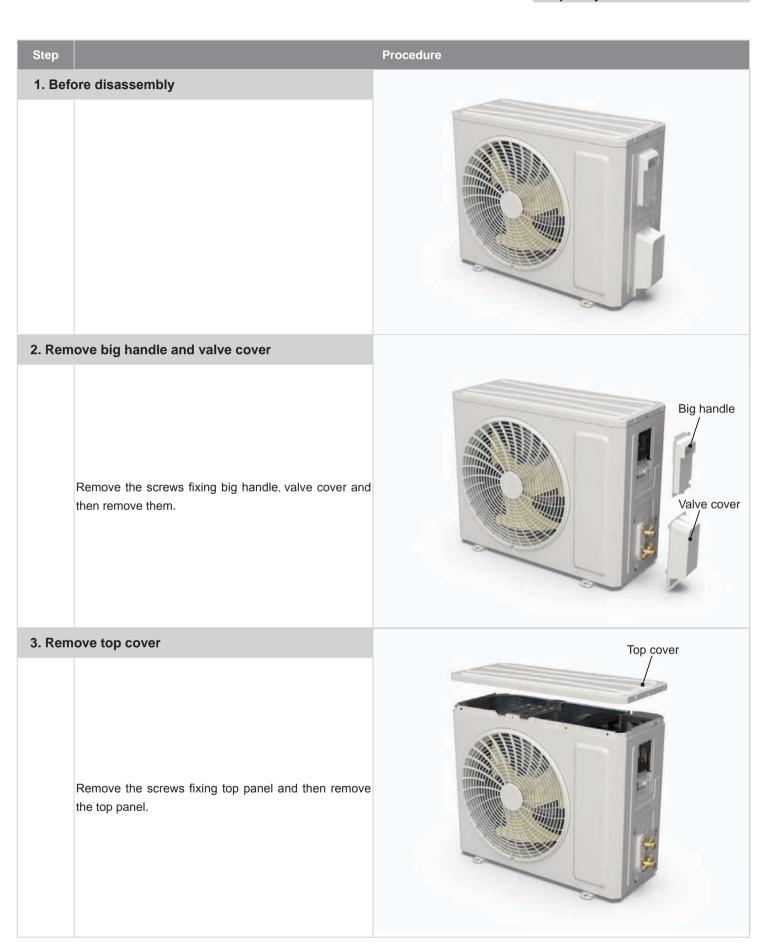
Note:

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





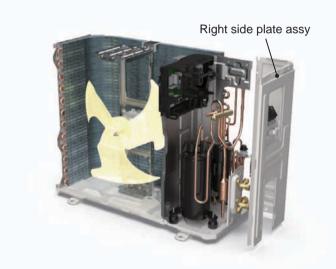
4. Remove front panel assy

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

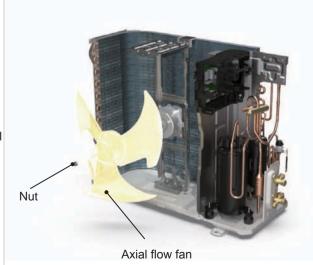


5. Remove right side plate assy

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.



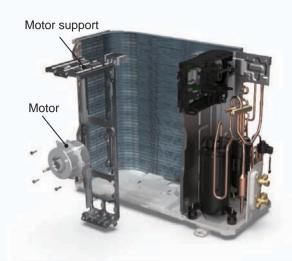
6. Remove axial flow fan



7. Remove motor support and motor

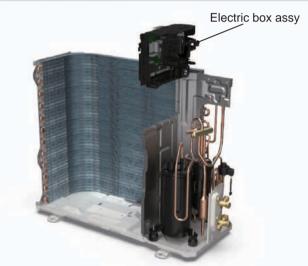
Remove the screws fixing the motor support and lift the motor support to remove it.

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.

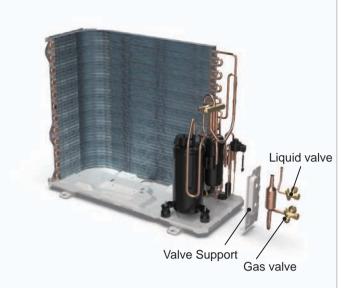


10. Remove gas valve and liquid valve

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

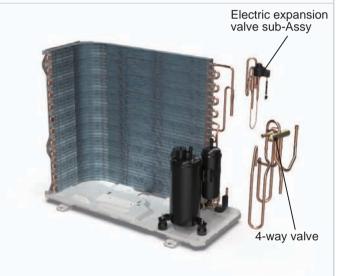
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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

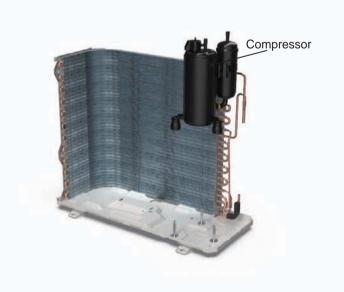
Note:

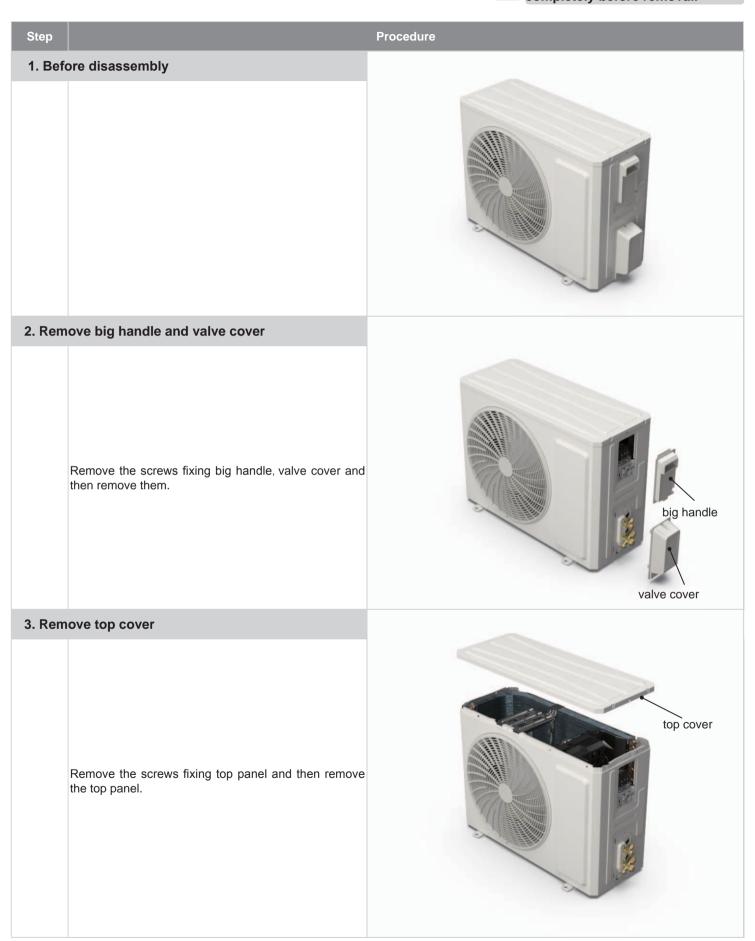
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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





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.

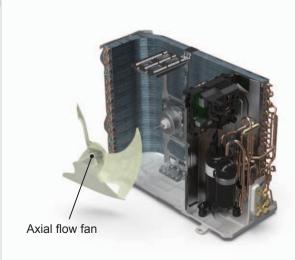


5. Remove right side plate assy

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.

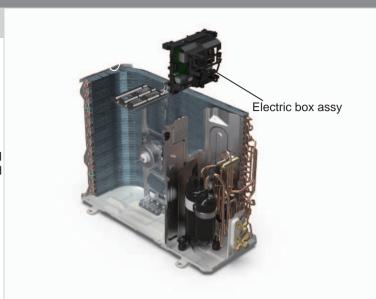


6. Remove axial flow fan



7. Remove electric box assy

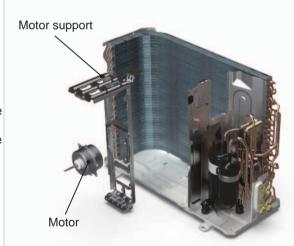
Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.



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.



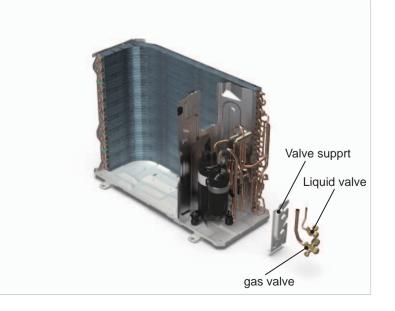
9. Remove gas valve, liquid valve and valve suppprt

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.

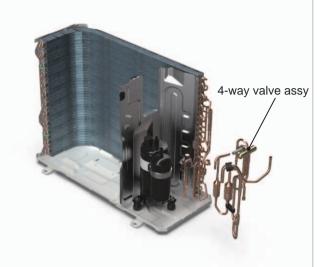


10. Remove 4-way valve assy

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.

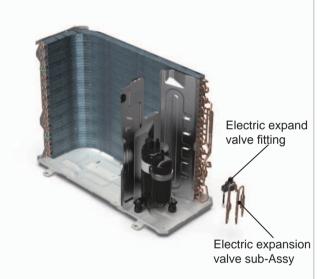


11. Remove electric expansion valve sub-Assy

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

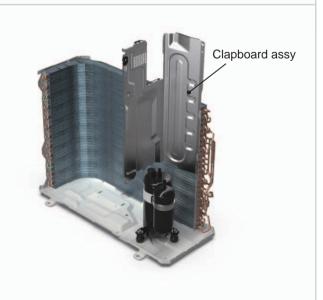
Note:

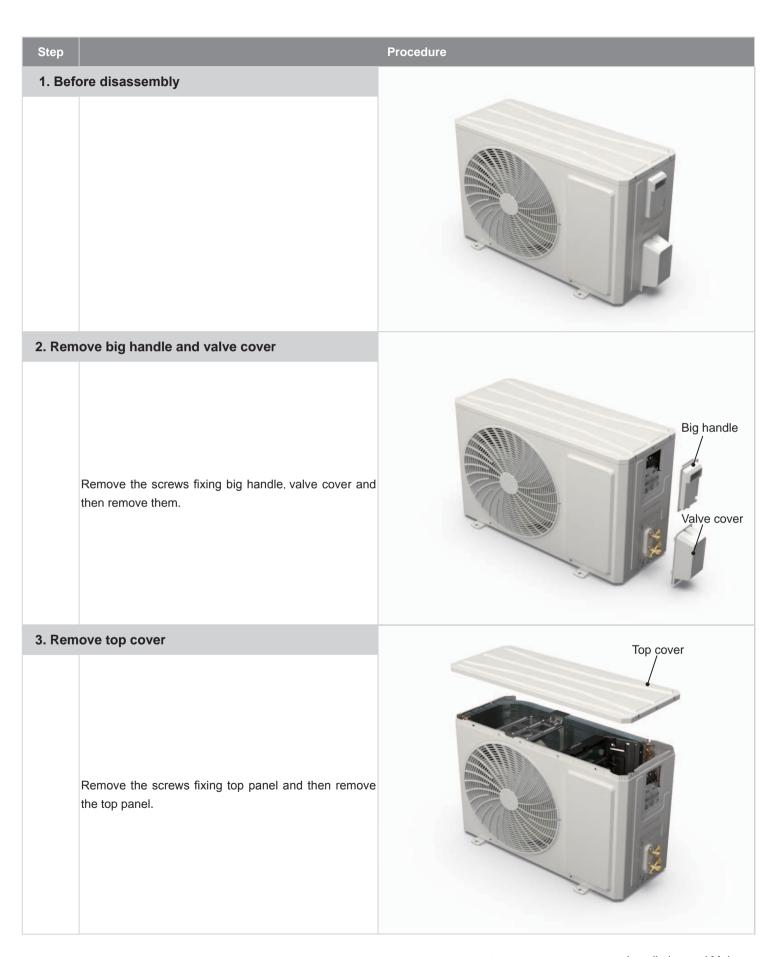
When unsoldering the spot weld, wrap the electric expansion valve sub-Assy with wet cloth completely to avoid damaging the valve due to high temperature.



12. Remove clapboard assy

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





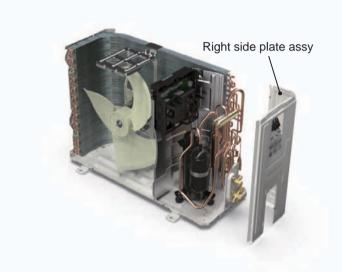
4. Remove front panel assy

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

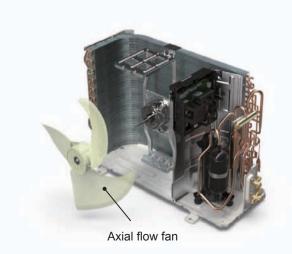


5. Remove right side plate assy

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.



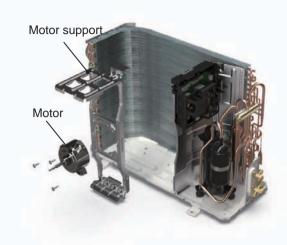
6. Remove axial flow fan



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.

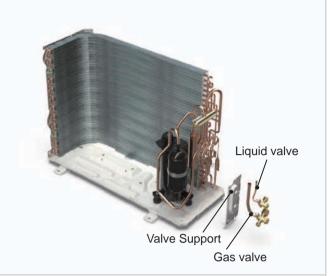


10. Remove gas valve and liquid valve

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.



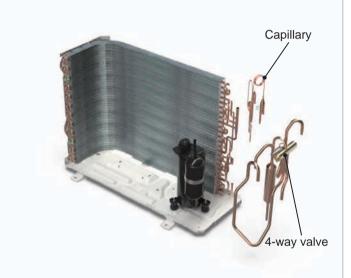
11. Remove 4-way valve and capillary

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

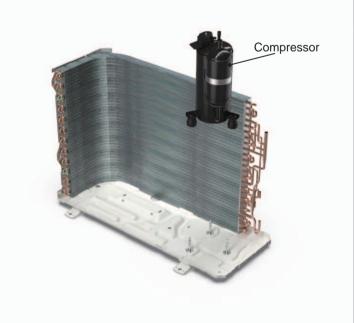
Unsolder the welding joints connecting the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the 4-way valve. Cooling only unit removes Discharge Tube and Inhalation Tube.

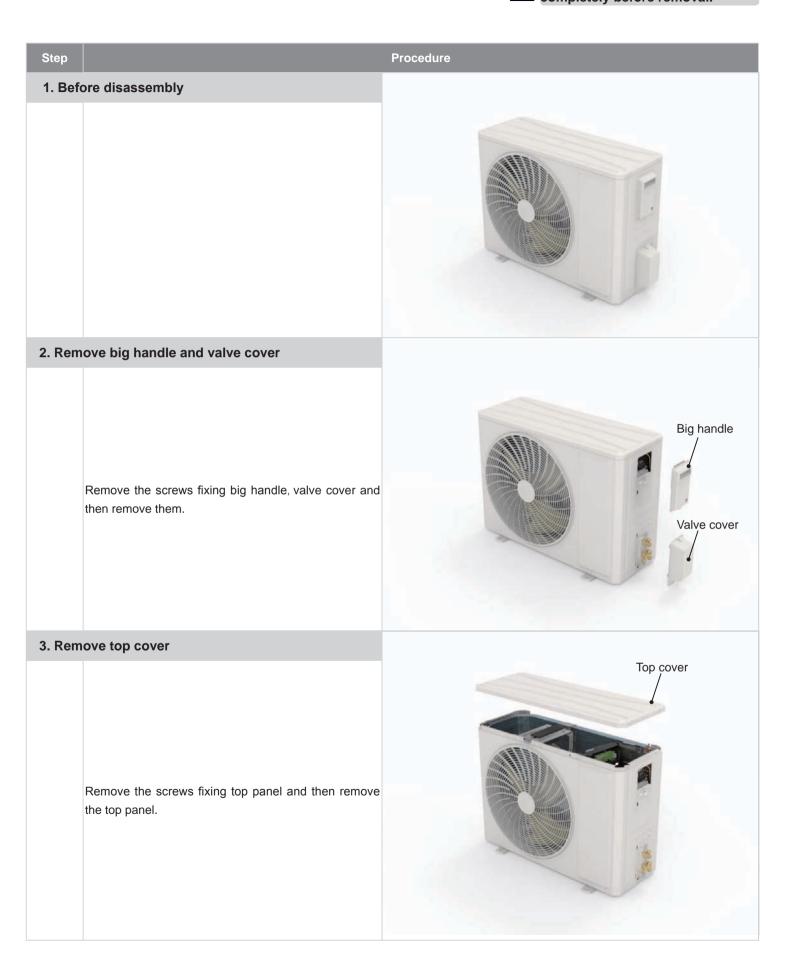
Note:

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





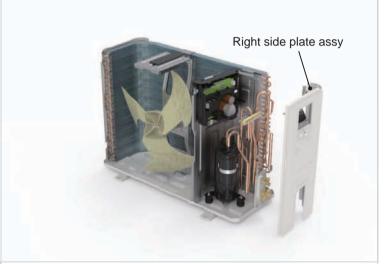
4. Remove front panel assy

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

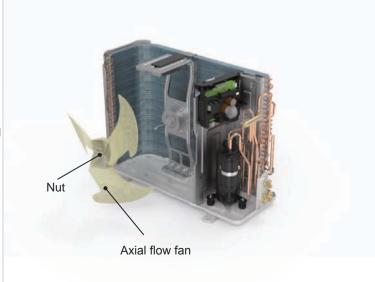


5. Remove right side plate assy

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.



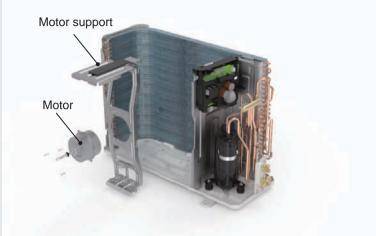
6. Remove axial flow fan



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.

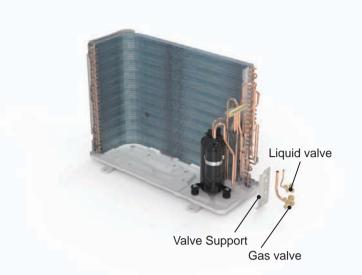


10. Remove gas valve and liquid valve

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

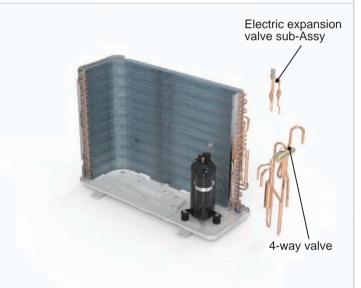
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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

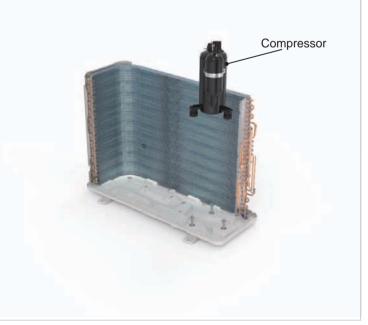
Note:

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



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

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

Appendix 2: Configuration of Connection Pipe

- 1. Standard length of connection pipe. (More details please refer to the specifications.)
- 2. Min length of connection pipe for the unit with standard connection pipe of 5m, there is no limitation for 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		nit throttle		
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only(g/m)	Cooling and heating(g/m)
1/4"	3/8" or 1/2"	16	12	16
1/4" or 3/8"	5/8" or 3/4"	40	12	40
1/2"	3/4" or 7/8"	80	24	96
5/8"	1" or 1 1/4"	136	48	96
3/4"	/	200	200	200
7/8''	1	280	280	280

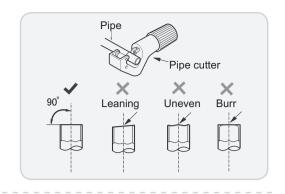
Appendix 3: Pipe Expanding Method

⚠ Note:

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

A:Cut the pip

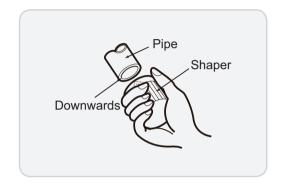
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B:Remove the burrs

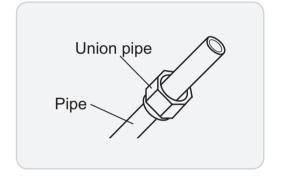
• Remove the burrs with shaper and prevent the burrs from getting into the pipe.

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.



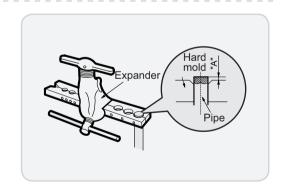
E:Expand the port

• Expand the port with expander.

⚠ Note:

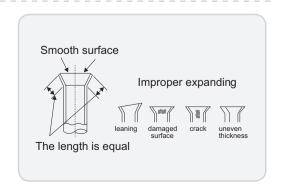
• "A" is different according to the diameter, please refer to the sheet below:

Outer diameter(mm)	A(mr	n)
	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



JF00304999



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