



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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# 1. Summary

# Indoor Unit:

A5 panel



#### B4 panel



### C4 panel



### E4 panel



## B6 panel



### A2 panel



#### B2 panel



# B8 panel



# C2 panel



# C6 panel



#### D6 panel



### D2 panel(Silver)



## D2 panel(Black)



D2 panel(Champagne)



C8 panel

	88.s <del>o</del>	
、 、		,

GWH09AFC-K6DNA2F/O GWH12AFC-K6DNA2F/O

GWH18ALD-K6DNA1A/O GWH12ATBXB-K6DNA1D/O

# **Outdoor Unit:**

D2 panel(White)



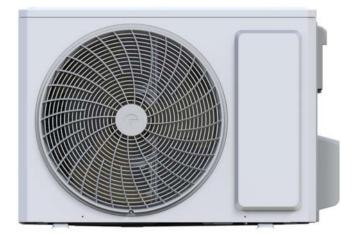
D8 panel



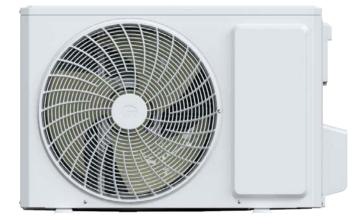
GWH07QA-K6DNC4A/O GWH09AGA-K6DNA1A/O GWH09AGB-K6DNA1B/O GWH12AGB-K6DNA1A/O



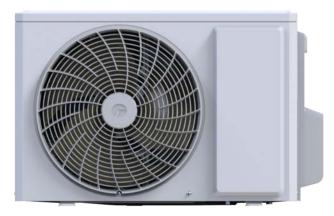
#### GWH18AFD-K6DNA2I/O



GWH24ALD-K6DNA1B/O



GWH07AGA-K6DNA1A/O



**Remote Controller:** 



YAC1FB9(WiFi)

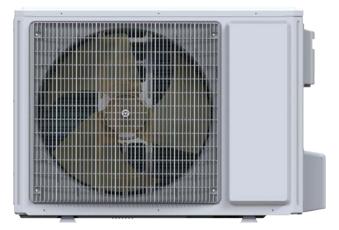


YAN1F6(WiFi)



YAP1F2(WiFi)

GWH18QD-K6DNA1D/O GWH24QE-K6DNA1E/O



GWH24AFE-K6DNA2I/O



## Model list:

No	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1	GWH07QA-K6DNC4A	CB444013200	GWH07QA-K6DNC4A/I	CB444N13200	GWH07QA-K6DNC4A/O	CB444W13200	Controller
2	OWNOT QA RODINOTA	CB434020401		CB434N20401	CWIND QA NODINO 440	00444013200	
3	GWH09QA-K6DNB4A		GWH09QA-K6DNB4A/I	CB434N20401	-		
		CB434020402			-		
4	GWH09QA-K6DNB2A	CB432025402	GWH09QA-K6DNB2A/I	CB432N25402	-		
5		CB432025401		CB432N25401	GWH09AGA-K6DNA1A/O	CB385W01000	
6	GWH09QA-K6DNB8A	CB438012600	GWH09QA-K6DNB8A/I	CB438N12600	-		
7	GWH09QA-K6DNC2A	CB439018200	GWH09QA-K6DNC2A/I	CB439N18200	-		
8	GWH09QA-K6DNC4A	CB444013800	GWH09QA-K6DNC4A/I	CB444N13800	_		
9	GWH09QA-K6DNE4A	CB470008100	GWH09QA-K6DNE4A/I	CB470N08100			YAN1F6
10	GWH12QB-K6DNB2A	CB432025502	GWH12QB-K6DNB2A/I	CB432N25502			(WiFi)
11	GWHIZQD-KODNDZA	CB432025503	GWH12QB-RODINB2A/I	CB432N25503			
12	GWH12QB-K6DNB4A	CB434020501	GWH12QB-K6DNB4A/I	CB434N20501	-		
13	GWH12QB-K6DNB8A	CB438012700	GWH12QB-K6DNB8A/I	CB438N12700		000000000000000000000000000000000000000	
14	GWH12QB-K6DNC2A	CB439018300	GWH12QB-K6DNC2A/I	CB439N18300	GWH12AGB-K6DNA1A/O	CB385W01700	
15	GWH12QB-K6DNC4A	CB444013900	GWH12QB-K6DNC4A/I	CB444N13900	-		
16	GWH12QB-K6DNE4A	CB470008000	GWH12QB-K6DNE4A/I	CB470N08000	-		
17	GWH12QB-K6DND8A	CB459010700	GWH12QB-K6DND8A/I	CB459N10700	-		
	GWH12QBXB-K6DNC8D	CB456010800	GWH12QBXB-K6DNC8D/I		GWH12ATBXB-K6DNA1D/O	CB574W00800	
10	GWH09QC-K6DNB2F	CB432026000			GWHIZAIBAB-RODINAID/O	CD374000000	
20	GWH09QC-K6DNC4F	CB442028000	GWH09QC-K6DNB2F/I GWH09QC-K6DNC4F/I	CB432N26000 CB444N13400	-	CB363W02900	
20	GWH09QC-K6DNC4F GWH09QC-K6DND2F	CB461007700		CB461N07700	-	CD3037702900	
21	GWH09QC-K6DND2F GWH09QC-K6DNA2F	CB426008501	GWH09QC-K6DND2F/I GWH09QC-K6DNA2F/I	CB426N08500			
22	GWH09QC-K6DNA5F	CB425018001	GWH09QC-K6DNA5F/I	CB425N18000	-		
24	GWH09QC-K6DNB2F	CB432026001	GWH09QC-K6DNB2F/I	CB432N26001			
25	GWH09QC-K6DNB4F	CB434022701	GWH09QC-K6DNB4F/I	CB434N22700	-		
26	GWH09QC-K6DNB6F	CB435014001	GWH09QC-K6DNB6F/I	CB435N14000	GWH09AFC-K6DNA2F/O		
27	GWH09QC-K6DNB8F	CB438014301	GWH09QC-K6DNB8F/I	CB438N14300			
28	GWH09QC-K6DNC6F	CB443010801	GWH09QC-K6DNC6F/I	CB443N10800	-	CB363W02901	
29	01110000010011001	CB461007701		CB461N07701	-		
30		CB461007702		CB461N07702	-		
31	GWH09QC-K6DND2F	CB461007703	GWH09QC-K6DND2F/I	CB461N07703	-		
32		CB461007704		CB461N07700	-		
33	GWH09QC-K6DND6F	CB460011201	GWH09QC-K6DND6F/I	CB460N11200	-		
34	GWH12QC-K6DNA2F	CB426008700	GWH12QC-K6DNA2F/I	CB426N08700			YAC1FB9
35	GWH12QC-K6DNA5F	CB425016200	GWH12QC-K6DNA5F/I	CB425N16200	1		(WiFi)
36	GWH12QC-K6DNB2F	CB432026102	GWH12QC-K6DNB2F/I	CB432N26102	1		
37	GWH12QC-K6DNB4F	CB434022500	GWH12QC-K6DNB4F/I	CB434N22500	1		
38	GWH12QC-K6DNB6F	CB435014100	GWH12QC-K6DNB6F/I	CB435N14100	1		
39	GWH12QC-K6DNB8F	CB438014100	GWH12QC-K6DNB8F/I	CB438N14100	]	CP262\M02600	
40	GWH12QC-K6DNC6F	CB443010900	GWH12QC-K6DNC6F/I	CB443N10900	]	CB363W03600	
41	GWH12QC-K6DND2F	CB461007502	GWH12QC-K6DND2F/I	CB461N07502	GWH12AFC-K6DNA2F/O		
42		CB461007504		CB461N07504	GWITZAFC-RODNAZP/O		
43	GWH12QC-K6DND2F CB461007503 GWH12QC-K6DND2F/I CB461007500		CB461N07503				
44			CB461N07500				
45	GWH12QC-K6DND6F	CB460011400	GWH12QC-K6DND6F/I	CB460N11400			
46	GWH12QC-K6DNC4F	CB444013501	GWH12QC-K6DNC4F/I	CB444N13500			
47	GWH12QC-K6DNB2F	CB432026101	GWH12QC-K6DNB2F/I	CB432N26100		CB363W03601	
48	GWH12QC-K6DND2F	CB461007501	GWH12QC-K6DND2F/I	CB461N07500	_	000000000000000000000000000000000000000	
49	GWH12QCXB-K6DNB6F	CB435016701	GWH12QCXB-K6DNB6F/I	CB435N16700			

No	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
50	GWH18QD-K6DNA2I	CB426008801	GWH18QD-K6DNA2I/I	CB426N08800			
51	GWH18QD-K6DNA5I	CB425016301	GWH18QD-K6DNA5I/I	CB425N16300			
52	GWH18QD-K6DNB2I	CB432026201	GWH18QD-K6DNB2I/I	CB432N26201			
53	GWH18QD-K6DNB4I	CB434022401	GWH18QD-K6DNB4I/I	CB434N22400			
54	GWH18QD-K6DNB6I	CB435014201	GWH18QD-K6DNB6I/I	CB435N14200			
55	GWH18QD-K6DNB8I	CB438014001	GWH18QD-K6DNB8I/I	CB438N14000		0000000000000	
56	GWH18QD-K6DNC6I	CB443011001	GWH18QD-K6DNC6I/I	CB443N11000		CB363W04201	
57		CB461007601		CB461N07601			
58		CB461007602		CB461N07602			
59	GWH18QD-K6DND2I	CB461007605	GWH18QD-K6DND2I/I	CB461N07600	GWH18AFD-K6DNA2I/O		
60		CB461007603	-	CB461N07603			
61	GWH18QD-K6DND6I	CB460011501	GWH18QD-K6DND6I/I	CB460N11500			
62		CB432026200		CB432N26200			
63	GWH18QD-K6DNB2I	CB432026202	GWH18QD-K6DNB2I/I	CB432N26201			
64	GWH18QD-K6DNC4I	CB444013300	GWH18QD-K6DNC4I/I	CB444N13300		0000000000000	
65	GWH18QD-K6DND2I	CB461007600	GWH18QD-K6DND2I/I	CB461N07600		CB363W04200	
66	GWH18QD-K6DNA5I	CB425016300	GWH18QD-K6DNA5I/I	CB425N16300			
67	GWH18QD-K6DNB6I	CB435014200	GWH18QD-K6DNB6I/I	CB435N14200			YAC1FB9
68	GWH18QD-K6DNC4D	CB444012303	GWH18QD-K6DNC4D/I	CB444N12302	GWH18QD-K6DNA1D/O	CB419W15601	(WiFi)
69	GWH24QE-K6DNC4E	CB444009802	GWH24QE-K6DNC4E/I	CB444N09802	GWH24QE-K6DNA1E/O	CB419W15701	
70	GWH24QE-K6DNB2I	CB432026300	GWH24QE-K6DNB2I/I	CB432N26300			
71	GWH24QE-K6DNB6K	CB435016800	GWH24QE-K6DNB6K/I	CB435N16800		CB363W04100	
72	GWH24QE-K6DND2K	CB461007800	GWH24QE-K6DND2K/I	CB461N07800		02000.101.00	
73	GWH24QE-K6DNA2I	CB426008601	GWH24QE-K6DNA2I/I	CB426N08600			
74	GWH24QE-K6DNA5I	CB425016401	GWH24QE-K6DNA5I/I	CB425N16400			
75	GWH24QE-K6DNB2I	CB432026301	GWH24QE-K6DNB2I/I	CB432N26301			
76	GWH24QE-K6DNB4I	CB434022601	GWH24QE-K6DNB4I/I	CB434N22600			
77	GWH24QE-K6DNB6I	CB435014301	GWH24QE-K6DNB6I/I	CB435N14300	GWH24AFE-K6DNA2I/O		
78	GWH24QE-K6DNB8I	CB438014201	GWH24QE-K6DNB8I/I	CB438N14200	GWIZZAR E-RODINAZI/O		
79	GWH24QE-K6DNC6I	CB443010701	GWH24QE-K6DNC6I/I	CB443N10700		CB363W04101	
80	GWH24QE-K6DND2K	CB461007801	GWH24QE-K6DND2K/I	CB461N07801			
81		CB461007803		CB461N07803			
82	GWH24QE-K6DND2K	CB461007802	GWH24QE-K6DND2K/I	CB461N07802			
83		CB461007804		CB461N07800			
84	GWH24QE-K6DND6I	CB460011301	GWH24QE-K6DND6I/I	CB460N11300			
85	GWH07QA-K6DNB2D	CB432027200	GWH07QA-K6DNB2D/I	CB432N27200	GWH07AGA-K6DNA1A/O	CB385W01100	
	GWH07QAXA-K6DND8D	CB459010800	GWH07QAXA-K6DND8D/I	CB459N10800			
87	GWH09QB-K6DND8F	CB459011500	GWH09QB-K6DND8F/I	CB459N11500	GWH09AGB-K6DNA1B/O	CB385W02300	
88	GWH18QD-K6DNB2E	CB432026600	GWH18QD-K6DNB2E/I	CB432N26600			
89	GWH18QD-K6DNC2A	CB439018400	GWH18QD-K6DNC2A/I	CB439N18400			
90	GWH18QD-K6DNC4A	CB444013700	GWH18QD-K6DNC4A/I	CB444N13700	GWH18ALD-K6DNA1A/O	CB513W01600	YAP1F2
91	GWH18QD-K6DNE4A	CB470008300	GWH18QD-K6DNE4A/I	CB470N08300			(WiFi)
	GWH18QDXB-K6DND8E	CB459009602	GWH18QDXB-K6DND8E/I				
93	GWH24QD-K6DNC2B	CB439018500	GWH24QD-K6DNC2B/I	CB439N18500			
94	GWH24QD-K6DNB2B	CB432026700	GWH24QD-K6DNB2B/I	CB432N26700	GWH24ALD-K6DNA1B/O	CB513W02200	
95	GWH24QD-K6DNC4B	CB444013600	GWH24QD-K6DNC4B/I	CB444N13600			
96	GWH24QDXE-K6DND8B	CB459009501	GWH24QDXE-K6DND8B/I	CB459N09501			

# 2. Specifications

# 2.1 Specification Sheet

Model			GWH07QA-K6DNC4A
Product Code			CB444013200
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	2200
Heating Capa	· · · · · · · · · · · · · · · · · · ·	W	2300
Cooling Powe		W	600
Heating Powe	· · · · · · · · · · · · · · · · · · ·	W	590
Cooling Curre	· · ·	A	2.9
Heating Curr		A	2.9
Rated Input	·	W	1500
Rated Coolin	g Current	A	6.0
Rated Heatin	-	A	7.5
Air Flow Volu	•	m³/h	500/420/390/300
Dehumidifyin		L/h	0.80
EER	9	W/W	3.67
COP		W/W	3.90
SEER			6.5
	ner/Average/Colder)		5.1/4.0/-
Application A		m²	12-18
, hbuicetterry (	Model		GWH07QA-K6DNC4A/I
	Product Code		CB444N13200
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98X507
	Cooling Speed	r/min	1300/1200/1000/800
	Heating Speed	r/min	1300/1200/1000/800
	Fan Motor Power Output	W	10
	Fan Motor RLA	A	0.2
	Fan Motor Capacitor	μF	1
	Evaporator Form	μ	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.5
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	510X22.8X266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
			Cooling:39/36/32/25
	Sound Pressure Level	dB (A)	Heating:39/36/33/26
	Sound Power Level	dB (A)	Cooling:55/48/44/37 Heating:49/48/45/38
	Dimension (WXHXD)	mm	713X270X195
	Dimension of Carton Box (LXWXH)	mm	760X334X259
	Dimension of Package (LXWXH)	mm	763X350X270
	Net Weight	kg	8
	Gross Weight	kg	9.5

	Outdoor Unit Model		GWH07QA-K6DNC4A/O
	Outdoor Unit Product Code		CB444W13200
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN075ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	A	3.00
	Compressor Power Input	W	633
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	٥C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	0	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed		900
	Fan Motor Power Output	rpm W	30
	Fan Motor RLA		0.40
Outdoor Unit		A	0.40
Unit	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	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 (H/M/L)	dB (A)	51/-/-
	Sound Power Level (H/M/L)	dB (A)	62/-/-
	Dimension(WXHXD)	mm	732X550X330
	Dimension of Carton Box (LXWXH)	mm	789X390X600
	Dimension of Package(LXWXH)	mm	792X393X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection		inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	15

		GWH07QA-K6DNB2D GWH07QAXA-K6DND8D
Product Code		CB432027200 CB459010800
Rated Voltage	V~	220-240
Rated Frequency	Hz	50
Phases		1
v Mode		Outdoor
•	W	2200
	W	2400
•	W	590
•		590
		2.9
-		2.9
		1300
a Current		5
		6
0		520/470/420/290
		0.6
g volume		
		3.73
		4.07
		6.6
		4/4.8/-
irea	m <sup>2</sup>	10-16
Model		GWH07QAXA-K6DND8D/I GWH07QA-K6DNB2D/I
Product Code		CB432N27200 CB459N10800
		Cross-flow
		Ф98×507
		1300/1200/1000/800
	r/min	1300/1200/1000/800
Fan Motor Power Output	W	10
Fan Motor RLA	A	0.15
Fan Motor Capacitor	μF	1
Evaporator Form		Aluminum Fin-copper Tube
Evaporator Pipe Diameter	mm	Φ5
Evaporator Row-fin Gap	mm	2-1.5
Evaporator Coil Length (LXDXW)	mm	510×22.8×266.7
Swing Motor Model		MP24AA
Swing Motor Power Output	W	1.5
Fuse Current	A	3.15
Sound Pressure Level	dB (A)	Cooling:39/37/33/25 Heating:38/36/32/25
Sound Power Level	dB (A)	Cooling:55/49/45/37 Heating:55/49/45/38
Dimension (WXHXD)	mm	713X270X195
		760X334X259
Dimension of Package (LXWXH)	mm	763X350X270
Net Weight	kg	8
	Rated Voltage         Rated Frequency         Phases         y Mode         acity         acity         acity         acity         ar         acity         ar         acity         ar         acity         ar         acity         ar         br         br <t< td=""><td>Rated VoltageV~Rated FrequencyHzPhases///////////////////////////////</td></t<>	Rated VoltageV~Rated FrequencyHzPhases///////////////////////////////

	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	/
	Compressor RLA	A	3
	Compressor Power Input	W	633
	Compressor Overload Protector		
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient	°C	-15~43
	Temperature Range Heating Operation Ambient		
	Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	950
Outdoor	Fan Motor Power Output	W	30
Unit	Fan Motor RLA	А	0.4
	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1400
	Fan Type		Axial-flow
	Fan Diameter	mm	350
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		1
	Moisture Protection		IPX4
	Permissible Excessive Operating		4.2
	Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	50/-/-
	Sound Power Level (H/M/L)	dB (A)	60/-/-
	Dimension(WXHXD)	mm	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X525
	Net Weight	kg	21
	Gross Weight	kg	23
	Refrigerant		R32
	Refrigerant Charge	kg	0.45
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe		1/4"
Connection Pipe	Outer Diameter Gas Pipe		3/8"
i ihe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric	c diamete	er.

Model			1.GWH09QA-K6DNB4A 2.GWH09QA-K6DNB2A 3.GWH09QA-K6DNB8A 4.GWH09QA-K6DNC4A 5.GWH09QA-K6DNC2A 6.GWH09QA-K6DNE4A
Product Code	e		1.CB434020401/CB434020402 2.CB432025401/CB432025402 3.CB438012600 4.CB444013800 5.CB439018200 6.CB470008100
_	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	2500
Heating Capa	acity	W	2800
Cooling Powe	er Input	W	720
Heating Powe	er Input	W	750
Cooling Curre	ent Input	А	3.2
Heating Curre	· ·	А	3.2
Rated Input		W	1500
Rated Cooling	a Current	A	6
Rated Heatin	0	A	7.5
Air Flow Volu	•	m³/h	500/420/390/300
Dehumidifyin		L/h	0.80
EER	9	W/W	3.47
COP		W/W	3.73
SEER			6.5
	ner/Average/Colder)		5.1/4.1/-
Application Area		m²	12-18
	Model		1.GWH09QA-K6DNB4A/I 2.GWH09QA-K6DNB2A/I 3.GWH09QA-K6DNB8A/I 4.GWH09QA-K6DNC4A/I 5.GWH09QA-K6DNC2A/I 6.GWH09QA-K6DNE4A/I
	Product Code		1.CB434N20401/CB434N20402 2.CB432N25401/CB432N25402 3.CB438N12600 4.CB444N13800 5.CB439N18200 6.CB470N08100
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98Х507
	Cooling Speed	r/min	1300/1200/1000/800
	Heating Speed	r/min	1300/1200/1000/800
	Fan Motor Power Output	W	10
	Fan Motor RLA	А	0.2
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.5
	Evaporator Coil Length (LXDXW)	mm	510X22.8X266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling:39/36/32/25 Heating:39/36/33/26
	Sound Power Level	dB (A)	Cooling:55/48/44/37 Heating:49/48/45/38
	Dimension (WXHXD)	mm	713X270X195
	Dimension of Carton Box (LXWXH)	mm	760X334X259
	Dimension of Package (LXWXH)	mm	763X350X270
	Net Weight	kg	8
	Gross Weight	kg	9.5

	Outdoor Unit Model		GWH09AGA-K6DNA1A/O
	Outdoor Unit Product Code		CB385W01000
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN075ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	A	3.00
	Compressor Power Input	W	633
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	٥C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
	Fan Motor RLA	A	0.40
Outdoor Unit	Fan Motor Capacitor	μF	/
Onit			<i>I</i>
	Heater Power Input	W m³/h	//
	Outdoor Unit Air Flow Volume	m /n	1950
	Fan Type Fan Diameter		Axial-flow 4400
		mm	
	Defrosting Method		Automatic Defrosting T1
	Climate Type		
	Isolation		
	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 (H/M/L)	dB (A)	51/-/-
	Sound Power Level (H/M/L)	dB (A)	62/-/-
	Dimension(WXHXD)	mm	732X550X330
	Dimension of Carton Box (LXWXH)	mm	789X390X600
	Dimension of Package(LXWXH)	mm	792X393X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.5
	Connection Pipe 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
סקיי	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	ər.	

Model			GWH09QB-K6DND8F
Product Code	e		CB459011500
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa		W	2700
Heating Capa	•	W	2800
Cooling Powe	-	W	735
Heating Powe		W	695
Cooling Curre		A	3.51
Heating Curre		A	3.32
Rated Input		W	1500
Rated Coolin	g Current	A	6
Rated Heatin	•	A	7.5
Air Flow Volu	-	m³/h	550/520/400/280
Dehumidifyin		L/h	0.80
EER	<u>.</u>	W/W	3.67
COP		W/W	4.03
SEER			6.6
	ner/Average/Colder)		5.2 /4.2/-
Application A	- ·	m <sup>2</sup>	10-16
	Model		GWH09QB-K6DND8F/I
	Product Code		CB459N11500
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98×580
	Cooling Speed	r/min	1350/1200/1050/750
	Heating Speed	r/min	1300/1200/1050/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.215
	Fan Motor Capacitor	μF	1
	Evaporator Form	μι	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter		Φ5
	Evaporator Pipe Diameter Evaporator Row-fin Gap	mm	2-1.4
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7
		mm	
	Swing Motor Model Swing Motor Power Output	W	MP24AA
			1.5
	Fuse Current	A	3.15 Cooling:41/38/34/24
	Sound Pressure Level	dB (A)	Heating:41/38/33/26
	Sound Power Level	dB (A)	Cooling:57/50/46/36 Heating:57/50/45/38
	Dimension (WXHXD)	mm	790×275×200
	Dimension of Carton Box (LXWXH)	mm	850×339×262
	Dimension of Package (LXWXH)	mm	852×355×273
	Net Weight	kg	9
	Gross Weight	kg	11

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

Model Product Code			1.GWH12QB-K6DNB2A 2.GWH12QB-K6DNB4A 3.GWH12QB-K6DNB8A 4.GWH12QB-K6DNC4A 5.GWH12QB-K6DNC2A 6.GWH12QB-K6DNE4A 7.GWH12QB-K6DND8A	
			1.CB432025502/CB432025503 2.CB434020501 3.CB438012700 4.CB444013900 5.CB439018300 6.CB470008000 7.CB459010700	
_	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Supply	Phases		1	
Power Supply	y Mode		Outdoor	
Cooling Capa	acity	W	3200	
leating Capa	acity	W	3400	
Cooling Powe	er Input	W	991	
leating Pow	er Input	W	916	
Cooling Curre		А	4.4	
leating Curr	ent Input	А	991 916	
Rated Input		W	1500	
Rated Coolin	g Current	A		
Rated Heatin	-	A		
Air Flow Volu	•	m³/h		
Dehumidifyin		L/h		
ER	<u>.</u>	W/W		
COP		W/W		
SEER				
SCOP (Warmer/Average/Colder)				
Application Area		m²		
Application A	Model		3.GWH12QB-K6DNB8A/I 4.GWH12QB-K6DNC4A/I 5.GWH12QB-K6DNC2A/I 6.GWH12QB-K6DNE4A/I 7.GWH12QB-K6DND8A/I	
	Product Code		4.CB444N13900 5.CB439N18300 6.CB470N08000 7.CB459N10700	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф98Х580	
	Cooling Speed	r/min	1350/1200/1050/750	
	Heating Speed	r/min	1350/1200/1050/850	
	Fan Motor Power Output	W	20	
	Fan Motor RLA	A	0.22	
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin-copper Tube	
Indoor Unit	Evaporator Pipe Diameter	mm	Φ5	
	Evaporator Row-fin Gap	mm	2-1.4	
	Evaporator Coil Length (LXDXW)	mm	584X22.8X266.7	
	Swing Motor Model		MP24AA	
	Swing Motor Power Output	W	1.5	
	Fuse Current	А	3.15	
	Sound Pressure Level	dB (A)	Cooling:41/37/33/24 Heating:42/38/33/27	
	Sound Power Level	dB (A)	Cooling:57/50/45/34 Heating:53/51/46/39	
	Dimension (WXHXD)	mm	790X275X200	
	Dimension of Carton Box (LXWXH)	mm	850X339X262	
	Dimension of Package (LXWXH)	mm	852X355X273	
	Net Weight	kg	9	
	Gross Weight	kg	11	

	Outdoor Unit Model		GWH12AGB-K6DNA1A/O
	Outdoor Unit Product Code		CB385W01700
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		FTz-AN088ACBF-A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	A	3.60
	Compressor Power Input	W	758
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
	Fan Motor RLA	A	0.40
Outdoor Unit	Fan Motor Capacitor	μF	/
Onit			
	Heater Power Input Outdoor Unit Air Flow Volume	W m <sup>3</sup> /h	1950
		111 /11	
	Fan Type Fan Diameter	mm	Axial-flow 400
		mm	
	Defrosting Method		Automatic Defrosting T1
	Climate Type Isolation		
	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 (H/M/L)	dB (A)	51/-/-
	Sound Power Level (H/M/L)	dB (A)	64/-/-
	Dimension(WXHXD)	mm	732X550X330
	Dimension of Carton Box (LXWXH)	mm	789X390X600
	Dimension of Package(LXWXH)	mm	792X393X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
<b>.</b> .	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	15
	Note: The connection pipe applies metric diameter	er.	

Model			GWH12QBXB-K6DNC8D
Product Code	<u>ــــــــــــــــــــــــــــــــــــ</u>		CB456010800
110000000000	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply			Outdoor
Cooling Capa		W	3200
Heating Capa		W	3400
Cooling Powe		W	991
Heating Powe		W	916
Cooling Curre	•	A	4.4
Heating Curr		A	4
Rated Input		W	1500
Rated Coolin	a Current	A	6
Rated Heatin	-	A	7.5
Air Flow Volu	-	m <sup>3</sup> /h	590/480/410/280
		L/h	
Dehumidifyin	g volume		1.4
EER		W/W	3.23
COP		W/W	3.71
SEER			6.1
SCOP (Warmer/Average/Colder)			4.9/4.0/-
Application A		m²	15-22
	Model		GWH12QBXB-K6DNC8D/I
	Product Code		CB456N10800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98Х580
	Cooling Speed	r/min	1350/1200/1050/750
	Heating Speed	r/min	1350/1200/1050/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	584X22.8X266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:41/37/33/24 Heating:42/38/33/27
	Sound Power Level	dB (A)	Cooling:57/50/45/34 Heating:53/51/46/39
	Dimension (WXHXD)	mm	790×275×200
	Dimension of Carton Box (LXWXH)	mm	850×339×262
	Dimension of Package (LXWXH)	mm	852×355×273
	Net Weight	kg	9
	Gross Weight	kg	11

	Outdoor Unit Model		GWH12ATBXB-K6DNA1D/O
	Outdoor Unit Product Code		CB574W00800
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO,LTD.
	Compressor Model		QXF-N088zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	A	3.60
	Compressor Power Input	W	758
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	٥C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed		900
	Output of Fan Motor	rpm W	30
- ·	Fan Motor RLA	A	0.4
Outdoor Unit	Fan Motor Capacitor	μF	
Unit			
	Heater Power Input	W m³/h	/ 1050
	Outdoor Unit Air Flow Volume	m /n	1950
	Fan Type Fan Diameter		Axial-flow 400
		mm	
	Defrosting Method		Automatic Defrosting T1
	Climate Type Isolation		
	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	732×555×330
	Dimension of Carton Box (LXWXH)	mm	791×373×590
	Dimension of Package(LXWXH)	mm	794×376×615
	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
<b>.</b> .	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	ər.	

Model			1.GWH09QC-K6DNB2F 2.GWH09QC-K6DNC4F 3.GWH09QC-K6DND2F		
Product Code			1.CB432026000 2.CB444013400 3.CB461007700		
	Rated Voltage	V~	220-240		
Power	Rated Frequency	Hz	50		
Supply	Phases		1		
Power Supply	/ Mode		Outdoor		
Cooling Capa		W	2700		
Heating Capa	-	W	3000		
Cooling Powe	-	W	3.CB461007700           220-240           50           1           Outdoor           2700           3000           695           700           3.1           3.2           1400           6           6.2           610/570/540/470/440/420/390           1.69           3.88           4.29           7.5           5.3/4.2/3.4           1.GWH09QC-K6DNB2F/I           3.GWH09QC-K6DND2F/I           3.GWH09QC-K6DND2F/I           3.GWH09QC-K6DND2F/I           3.GWH09QC-K6DND2F/I           3.GWH09QC-K6DND2F/I           3.GWH09QC-K6DND2F/I           1.CB432N26000 2.CB444N13400           3.CB461N07700           Cross-flow           Φ98X633.5           1200/1100/1050/950/900/850           1150/1100/1050/950/900/850           20           0.31           1.5           Aluminum Fin-copper Tube           Φ5           2-1.4           635X22.8X306.3           MP24EB/MP24HF           1.5/1.5           3.15		
Heating Powe		W	700		
Cooling Curre		A			
Heating Curre		A			
Rated Input		W			
Rated Cooling	a Current	A			
Rated Heatin	-	A			
Air Flow Volu	0	m <sup>3</sup> /h			
Dehumidifying		L/h			
EER	g volume	W/W			
COP					
		W/W			
SEER					
SCOP (Warmer/Average/Colder)					
Application A		m <sup>2</sup>			
	Model		3.GWH09QC-K6DND2F/I		
	Product Code				
	Fan Type				
	Fan Diameter Length(DXL)	mm			
	Cooling Speed	r/min			
	Heating Speed	r/min			
	Fan Motor Power Output	W			
	Fan Motor RLA	A			
	Fan Motor Capacitor	μF			
	Evaporator Form				
	Evaporator Pipe Diameter	mm			
Indoor Unit	Evaporator Row-fin Gap	mm			
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3		
	Swing Motor Model		MP24EB/MP24HF		
	Swing Motor Power Output	W	1.5/1.5		
	Fuse Current	A			
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/29/27/25 Heating:38/37/35/34/32/29/28		
	Sound Power Level	dB (A)	Cooling:54/48/46/43/41/39/37 Heating:56/49/47/46/44/41/40		
	Dimension (WXHXD)	mm	845X289X209		
	Dimension of Carton Box (LXWXH)	mm	918X278/364		
	Dimension of Package (LXWXH)	mm	931X281X379		
	Net Weight	kg	10.5		
	-				

	Outdoor Unit Model		GWH09AFC-K6DNA2F/O(LC)
	Outdoor Unit Product Code		CB363W02900
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G;ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	15.00
	Compressor RLA	Α	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
Outdoor Unit	Fan Motor Capacitor	μF	/
Onic	Heater Power Input	W	1
	•	m <sup>3</sup> /h	/
	Outdoor Unit Air Flow Volume	m /n	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	¢400
	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 (H/M/L)	dB (A)	50/-/-
	Sound Power Level (H/M/L)	dB (A)	61/-/-
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X583
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant		R32
	Refrigerant Charge	kg	0.53
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe		inch	3/8
Lihe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diamete	r.	

Note: The connection pipe applies metric diameter. The above data is subject to change without notice. Please refer to the nameplate of the unit.

	Net Weight	kg	10.5		
	Dimension of Package (LXWXH)	mm	905X367X283		
	Dimension of Carton Box (LXWXH)	mm	900X351X272		
	Dimension (WXHXD)	mm	845X289X209		
	Sound Power Level	dB (A)	Heating:56/49/47/46/44/41/40		
	Sound Pressure Level	dB (A)	Heating:38/37/35/34/32/29/28		
	Fuse Current	A			
	Swing Motor Power Output	W			
	Swing Motor Model				
	Evaporator Coil Length (LXDXW)	mm			
	Evaporator Row-fin Gap	mm			
Indoor Unit	Evaporator Pipe Diameter	mm			
lada 11.2	Evaporator Form				
	·	μr			
	Fan Motor Capacitor	μF			
	Fan Motor RLA	A			
	Fan Motor Power Output	W			
	Cooling Speed Heating Speed	r/min r/min			
	Fan Diameter Length(DXL)	mm			
	Fan Type				
	Product Code		1.CB432N26001 2.CB438N14300 3.CB434N22700 4.CB425N18000 5.CB461N07701/CB461N07702/CB461N07703/CB461N07700		
	Model		1.GWH09QC-K6DNB2F/I 2.GWH09QC-K6DNB8F/I 3.GWH09QC-K6DNB4F 4.GWH09QC-K6DNA5F/I 5.GWH09QC-K6DND2F/I 6.GWH09QC-K6DNC6F		
Application A	¥	m²	12-18		
SCOP (Warn	ner/Average/Colder)		5.3/4.2/3.4		
SEER			7.5		
COP		W/W	4.29		
EER		W/W	3.88		
Dehumidifyin	ig Volume	L/h	1.69		
Air Flow Volu	ime	m³/h	610/570/540/470/440/420/390		
Rated Heatir	ng Current	Α	6.2		
Rated Coolin	ng Current	A	6		
Rated Input		W	4.GWH09QC-K6DNB6F         S.GWH09QC-K6DND6F         9.GWH09QC-K6DNA27           1.CB432026001         2.CB438014301         3.CB434022701         4.CB425018001           5.CB461007701/CB461007702/CB461007704         6.CB443010801         7.CB450014001         8.CB460011201         9.CB426008501           220-240         50         1         0.Utdoor         220-240           3000         695         700         3000         695           700         3.1         3.2         1         1400         6           6         6.2         610/570/540/470/440/420/390         1.69         3.88         3.88         3.88         3.88         3.88         3.88         3.42/3.4         12-18         1.69         3.84         3.88         3.62         3.62         5.63/4.2/3.4         3.5         3.64         3.		
Heating Curr	ent Input	A			
Cooling Curr	-	Α	7.GWH09QC-K6DNB6F         8.GWH09QC-K6DND6F         9.GWH09QC-K6DNA2           1.CE432026001         2.CB438014301         3.CB434022701         4.CB425018001703           5.CB461007701/CB461007703/CB461007703/CB461007703         7.00         220-240           50         1         0.Utdoor           2700         3000         695           7.00         3.1         3.2           1400         6         6           6.2         6.2         6.2           6.0570/540/470/440/420/390         1.69           3.88         3.88         3.88           4.29         7.5         5.3/4.2/3.4           12-18         1.GWH09QC-K6DNB8F/I         3.GWH09QC-K6DNB4           1.GWH09QC-K6DNB5F/I         3.GWH09QC-K6DNB4         6.GWH09QC-K6DNB4           1.GWH09QC-K6DNB6F/I         5.GWH09QC-K6DNB4         6.GWH09QC-K6DNB4           1.GWH09QC-K6DNB6F/I         3.GWH09QC-K6DNB4         6.GWH09QC-K6DNB4		
Heating Pow	er Input	W	700		
Cooling Pow	er Input	W	695		
Heating Cap	acity	W	3000		
Cooling Capa	-	W	2700		
Power Suppl					
Supply	Phases				
Power	Rated Voltage Rated Frequency	v∼ Hz			
		V~	6.CB443010801 7.CB435014001 8.CB460011201 9.CB426008501		
Product Code			1.CB432026001 2.CB438014301 3.CB434022701 4.CB425018001		
Model			4.GWH09QC-K6DNA5F 5.GWH09QC-K6DND2F 6.GWH09QC-K6DNC6F 7.GWH09QC-K6DNB6F 8.GWH09QC-K6DND6F 9.GWH09QC-K6DNA2F		

Outdoor Unit Model     GWH09AFC-K6DNA2F/C       Outdoor Unit Product Code     CB363W02901       Compressor Manufacturer     ZHUHAI LANDA COMPRESS       Compressor Model     QXF-A082zC170	
Compressor Model QXF-A082zC170	SOR CO.,LID
	)
Compressor Oil ZE-G;ES RB68GX or eq	
Compressor Type Rotary	
Compressor LRA. A 15.00	
Compressor RLA A 2.56	
Compressor Power Input W 756.6	
Compressor Overload Protector /	
Throttling Method Capillary	
Set Temperature Range °C 16~30	
Cooling Operation Ambient Temperature Range °C -15~50	
Heating Operation Ambient Temperature Range °C -25~30	
Condenser Form Aluminum Fin-copper	Tube
Condenser Pipe Diameter mm Φ7	
Condenser Rows-fin Gap mm 1-1.2	
Condenser Coil Length (LXDXW) mm 666X19.05X527	
Fan Motor Speed rpm 900	
Fan Motor Power Output W 30	
Outdoor UnitFail Motor RLAA0.40Fail Motor CapacitorµF/	
Heater Power Input W 25	
Outdoor Unit Air Flow Volumem³/h1950	
Fan Type Axial-flow	
Fan Diameter mm Φ400	
Defrosting Method Automatic Defrostin	na
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 (H/M/L) dB (A) 50/-/-	
Sound Power Level (H/M/L) dB (A) 61/-/-	
Dimension(WXHXD) mm 732X555X330	
Dimension of Carton Box (LXWXH) mm 791X373X583	
Dimension of Package(LXWXH) mm 794X376X615	
Net Weight kg 24.5	
Gross Weight kg 27	
Refrigerant R32	
Refrigerant Charge kg 0.53	
Connection Pipe Length m 5	
Connection Pipe Gas Additional Charge g/m 16	
Outer Diameter Liquid Pipe inch 1/4	
Connection Outer Diameter Gas Pipe inch 3/8	
Pipe Max Distance Height m 10	
Max Distance Length m 15	
Note: The connection pipe applies metric diameter.	

Model			1.GWH12QC-K6DNB2F 2.GWH12QC-K6DNC4F 3.GWH12QC-K6DND2F 4.GWH12QCXB-K6DNB6F
Product Code			1.CB432026101 2.CB444013501 3.CB461007501 4.CB435016701
Rated Voltage		V~	220-240
Power Supply	Rated Frequency	Hz	50
Supply	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	A	4.3
Heating Curre	ent Input	A	4.6
Rated Input		W	1550
Rated Coolin	g Current	A	6.2
Rated Heatin	g Current	A	6.9
Air Flow Volu	ime	m³/h	700/650/600/540/480/420/360
Dehumidifyin	g Volume	L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER			7.1
SCOP (Warm	ner/Average/Colder)		5.2/4.1/3.1
Application A	rea	m <sup>2</sup>	16-24
	Model		1.GWH12QC-K6DNB2F/I 2.GWH12QC-K6DNC4F/I 3.GWH12QC-K6DND2F/I 4.GWH12QCXB-K6DNB6F/I 1.CB432N26100 2.CB444N13500
	Product Code		3.CB461N07500 4.CB435N16700
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98X633.5
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/800
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model		MP24EB/MP24HF
	Swing Motor Power Output	Ŵ	1.5/1.5
	Fuse Current	A	3.15 Cooling: 42/28/25/20/07/25
	Sound Pressure Level	dB (A)	Cooling:42/38/35/32/29/27/25 Heating:42/38/36/34/32/30/28
	Sound Power Level	dB (A)	Cooling:57/50/47/44/41/39/37 Heating:52/48/46/44/42/40/38
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
	Dimension of Package (LXWXH)	mm	905X367X283
	Net Weight	kg	10.5
	Gross Weight	kg	12.5

	Outdoor Unit Model		GWH12AFC-K6DNA2F/O(LC)
	Outdoor Unit Product Code		CB363W03601
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	Α	4.40
	Compressor Power Input	W	
	Compressor Overload Protector		 /
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
Outdoor Unit	Fan Motor Capacitor	μF	
Onit		µг W	
	Heater Power Input		1
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	52/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X583
	Dimension of Package(LXWXH)	mm	794X376X598
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant		R32
	Refrigerant Charge	kg	0.57
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
onnection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter		10

Model			GWH12QC-K6DNA5F
Product	Code		CB425016200
_	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power	Supply Mode		Outdoor
	Capacity	W	3510
-	Capacity	W	3810
-	Power Input	W	962
-	Power Input	W	953
	Current Input	Α	4.3
-	Current Input	Α	4.6
Rated I	· · · · · · · · · · · · · · · · · · ·	W	1550
	Cooling Current	Α	6.2
	leating Current	A	6.9
	v Volume	m <sup>3</sup> /h	700/650/600/540/480/420/360
	idifying Volume	L/h	1.40
EER	, , , , , , , , , , , , , , , , , , , ,	W/W	3.65
COP		W/W	4.00
SEER			7.1
	Warmer/Average/Colder)		5.2/4.1/3.1
	tion Area	m <sup>2</sup>	16-24
	Model		GWH12QC-K6DNA5F/I
	Product Code		CB425N16200
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98X633.5
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/800
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	м	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
Indoor	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
Unit	Swing Motor Model		MP24EB/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
			Cooling:42/38/35/32/29/26/25
	Sound Pressure Level	dB (A)	Heating:42/38/36/34/32/30/28
	Sound Power Level	dB (A)	Cooling:57/50/47/44/41/38/37
		ub (A)	Heating:52/48/46/44/42/40/38
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
	Dimension of Package (LXWXH)	mm	905X367X283
	Net Weight	kg	11
	Gross Weight	kg	13

	Outdoor Unit Model		GWH12AFC-K6DNA2F/O(LCLH)
	Outdoor Unit Product Code		CB363W03600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	Α	4.40
	Compressor Power Input	W	/
	Compressor Overload Protector		/
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Quitaleer	Fan Motor RLA	Α	0.40
Outdoor Unit	Fan Motor Capacitor	μF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type	111 /11	Axial-flow
	Fan Diameter	mm	Φ400
	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 (H/M/L)	dB (A)	52/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X583
	Dimension of Package(LXWXH)	mm	794X376X598
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant		R32
	Refrigerant Charge	kg	0.57
	Connection Pipe 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
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diamete	er.	

Model			1.GWH12QC-K6DNB2F 2.GWH12QC-K6DND2F 3.GWH12QC-K6DNB8F 4.GWH12QC-K6DNB4F 5.GWH12QC-K6DND2F 6.GWH12QC-K6DNA2F 7.GWH12QC-K6DNB6F 8.GWH12QC-K6DNC6F 9.GWH12QC-K6DND6F
Product	Code		1.CB432026102 2.CB461007502 3.CB438014100 4.CB434022500 5.CB461007504/CB461007503/CB461007500 6.CB426008700 7.CB435014100 8.CB443010900 9.CB460011400
-	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Supply	Phases		1
Power	Supply Mode		Outdoor
	Capacity	W	3510
-	Capacity	W	3810
	Power Input	W	962
	Power Input	W	953
~	Current Input	Α	4.3
-	Current Input	A	4.6
Rated I		W	1550
	Cooling Current	A	6.2
	leating Current	A	6.9
	/ Volume	m <sup>3</sup> /h	700/650/600/540/480/420/360
-	difying Volume	L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER		-	
			7.1
	SCOP (Warmer/Average/Colder) Application Area		5.2/4.1/3.1
Applica	tion Area	m²	
	Model		1.GWH12QC-K6DNB2F/I 2.GWH12QC-K6DND2F/I 3.GWH12QC-K6DNB8F/I 4.GWH12QC-K6DNB4F/I 5.GWH12QC-K6DND2F/I 6.GWH12QC-K6DNA2F/I 7.GWH12QC-K6DNB6F/I 8.GWH12QC-K6DNC6F/I 9.GWH12QC-K6DND6F/I
	Product Code		1.CB432N26102 2.CB461N07502 3.CB438N14100 4.CB434N22500 5.CB461N07504/CB461N07503/CB461N07500 6.CB426N08700 7.CB435N14100 8.CB443N10900 9.CB460N11400
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98X633.5
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/800
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	A	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form	P1	Aluminum Fin-copper Tube
Indoor	Evaporator Pipe Diameter	mm	Φ5
Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model	11111	MP24EB/MP24HF
		10/	
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:42/38/35/32/29/26/25 Heating:42/38/36/34/32/30/28
	Sound Power Level	dB (A)	Cooling:57/50/47/44/41/38/37 Heating:52/48/46/44/42/40/38
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
	Dimension of Package (LXWXH)	mm	905X367X283
	Net Weight	kg	10.5
	Gross Weight	kg	12.5

	Outdoor Unit Model		GWH12AFC-K6DNA2F/O(LCLH)
	Outdoor Unit Product Code		CB363W03600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	1
	Compressor RLA	Α	4.40
	Compressor Power Input	W	/
	Compressor Overload Protector		/
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666X19.05X527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.40
Outdoor Unit	Fan Motor Capacitor	μF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
	Fan Type	111 /11	Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		1
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side Permissible Excessive Operating Pressure for		
	the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	52/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X583
	Dimension of Package(LXWXH)	mm	794X376X598
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant		R32
	Refrigerant Charge	kg	0.57
	Connection Pipe 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
, ipo	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

	Model		1.GWH18QD-K6DNB2I 2.GWH18QD-K6DNC4I 3.GWH18QD-K6DND2I 4.GWH18QD-K6DNB6I	GWH18QD-K6DNA5I
Product Code			1.CB432026200/CB432026202 2.CB444013300 3.CB461007600 4.CB435014200	CB425016300
	Rated Voltage	V~	220-240	220-240
Supply	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply	/ Mode		Outdoor	Outdoor
Cooling Capao	city	W	5200	5200
Heating Capa	city	W	5600	5600
Cooling Powe	er Input	W	1576	1576
Heating Powe	er Input	W	1436	1436
Cooling Curre	ent Input	А	7.1	7.1
Heating Curre	ent Input	Α	6.3	6.3
Rated Input	•	W	2400	2400
Rated Cooling	a Current	Α	10.5	10.5
Rated Heating	-	A	11	11
Air Flow Volun		m <sup>3</sup> /h	850/750/680/610/570/520/460	850/750/680/610/570/520/460
Dehumidifying		L/h	1.90	1.90
EER	gvolanie	W/W	3.299	3.299
COP		W/W	3.9	3.9
SEER			7.1	7.1
SCOP (Warmer/Average/Colder)		 m <sup>2</sup>	5.7/4.2/3.4	5.7/4.2/3.4
Application Are	ea	m-	23-34 1.GWH18QD-K6DNB2I/I	23-34
I	Model		2.GWH18QD-K6DNC4I/I 3.GWH18QD-K6DND2I/I 4.GWH18QD-K6DNB6I/I	GWH18QD-K6DNA5I/I
ſ	Product Code		1.CB432N26200/CB432N26201 2.CB444N13300 3.CB461N07600 4.CB435N14200	CB425N16300
1	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф106X706	Ф106X706
H	Cooling Speed	r/min		1230/1170/1100/1020/960/880/800/550
H	Heating Speed	r/min	1400/1270/1200/1130/1050/980/900	1400/1270/1200/1130/1050/980/900
	Fan Motor Power Output	W	45	45
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form	рі 	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap		2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	715X25.4X304.8
		mm		
-	Swing Motor Model	147	MP35CJ/MP24HF	MP35CJ/MP24HF
-	Swing Motor Power Output	W	2.5/1.5	2.5/1.5
ļ	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33
, 	Sound Power Level	dB (A)	Cooling:60/56/54/51/4947/43 Heating:60/58/55/53/51/49/46	Cooling:60/56/54/51/4947/43 Heating:60/58/55/53/51/49/46
-				
	Dimension (WXHXD)	mm	970X300X224	970X300X224
-	Dimension (WXHXD) Dimension of Carton Box (LXWXH)		970X300X224 1020X370X294	970X300X224 1020X370X294
	Dimension of Carton Box (LXWXH)	mm	1020X370X294	1020X370X294
	. ,			

	Outdoor Unit Model		GWH18AFD-K6DNA2I/O(LC)
	Outdoor Unit Product Code		CB363W04200
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A120zH170A
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	18.00
	Compressor RLA	A	5.00
	Compressor Power Input	W	1096
	Compressor Overload Protector		HPC115/95U1/KSD115°C
	Throttling Method		Electron expansion valve
	Set Temperature Range	٥C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	895X38.1X528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
	Fan Motor RLA	A	0.40
Outdoor Unit	Fan Motor Capacitor	μF	/
Onit			· · · · · · · · · · · · · · · · · · ·
	Heater Power Input Outdoor Unit Air Flow Volume	W m³/h	2200
		m /n	
	Fan Type Fan Diameter		Axial-flow 420
		mm	
	Defrosting Method		Automatic Defrosting T1
	Climate Type Isolation		
	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 (H/M/L)	dB (A)	56/-/-
	Sound Power Level (H/M/L)	dB (A)	65/-/-
	Dimension(WXHXD)	mm	802X555X350
	Dimension of Carton Box (LXWXH)	mm	869X395X594
	Dimension of Package(LXWXH)	mm	872X398X620
	Net Weight	kg	30.5
	Gross Weight	kg	33
	Refrigerant		R32
	Refrigerant Charge	kg	0.82
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
<b>.</b> .	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
i ihe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model			GWH18QD-K6DNA5I	GWH18QD-K6DND2I
Product	Code		CB425016301	CB461007602/CB461007605/ CB461007603
Daviar	Rated Voltage	V~	220-240	220-240
Power Supply	Rated Frequency	Hz	50	50
Ouppiy	Phases		1	1
Power S	upply Mode		Outdoor	Outdoor
Cooling (	Capacity	W	5200	5200
Heating	Capacity	W	5600	5600
Cooling I	Power Input	W	1576	1576
Heating I	Power Input	W	1436	1436
Cooling (	Current Input	Α	7.1	7.1
Heating	Current Input	Α	6.3	6.3
Rated In		W	2400	2400
	ooling Current	Α	10.5	10.5
	eating Current	A	11	11
Air Flow		m <sup>3</sup> /h	850/750/680/610/570/520/460	850/750/680/610/570/520/460
	lifying Volume	L/h	1.90	1.90
EER		W/W	3.299	3.299
COP		W/W	3.9	3.9
SEER			7.1	7.1
SCOP (Warmer/Average/Colder)			5.7/4.2/3.4	5.7/4.2/3.4
Applicati		m <sup>2</sup>	23-34	23-34
Applicati		111	23-34	23-34
	Model		GWH18QD-K6DNA5I/I	GWH18QD-K6DND2I/I
	Product Code		CB425N16300	CB461N07602/CB461N07600/ CB461N07603
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф106X706	Ф106X706
	Cooling Speed	r/min	1230/1170/1100/1020/960/880/800/550	1230/1170/1100/1020/960/880/800/55
	Heating Speed	r/min	1400/1270/1200/1130/1050/980/900	1400/1270/1200/1130/1050/980/900
	Fan Motor Power Output	W	45	45
	Fan Motor RLA	Α	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
Indoor	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
Unit	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	715X25.4X304.8
	Swing Motor Model		MP35CJ/MP24HF	MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5	2.5/1.5
	Fuse Current	A	3.15	3.15
	Fuse Current		Cooling:44/43/41/38/36/34/30	Cooling:44/43/41/38/36/34/30
	Sound Pressure Level	dB (A)	Heating:48/45/42/40/38/36/33 Cooling:60/56/54/51/4947/43	Heating:48/45/42/40/38/36/33 Cooling:60/56/54/51/4947/43
	Sound Power Level	dB (A)	Heating:60/58/55/53/51/49/46	Heating:60/58/55/53/51/49/46
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)		1020X370X294	1020X370X294
	Dimension of Package (LXWXH)	mm	1025X378X304	1025X378X304
				13
	Net Weight	kg	13.5	1.3

	Outdoor Unit Model Outdoor Unit Product Code Compressor Manufacturer Compressor Model Compressor Oil		GWH18AFD-K6DNA2I/O(LCLH) CB363W04201 ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Manufacturer		
	compressor Model		
	-		QXF-A120zH170A
C			FW68DA or equivalent
C	Compressor Type		Rotary
	compressor LRA.	Α	18.00
	Compressor RLA	A	5.00
	Compressor Power Input	W	1096
	compressor Overload Protector		HPC115/95U1/KSD115°C
	hrottling Method		Electron expansion valve
	et Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	leating Operation Ambient Temperature Range	°C	-25~30
	condenser Form		Aluminum Fin-copper Tube
	condenser Pipe Diameter	mm	Φ7
	condenser Rows-fin Gap	mm	2-1.4
	condenser Coil Length (LXDXW)	mm	895X38.1X528
	an Motor Speed	rpm	880
	an Motor Power Output	W	30
<b>F</b> .	an Motor RLA	A	0.40
	an Motor Capacitor	μF	/
			<i>I</i>
	leater Power Input	W m³/h	/
	Outdoor Unit Air Flow Volume	m /n	2200
	an Type an Diameter		Axial-flow
		mm	
	Perfosting Method		Automatic Defrosting
	limate Type		T1
	solation loisture Protection		
	ermissible Excessive Operating Pressure for		IPX4
th	ne Discharge Side	MPa	4.3
	ermissible Excessive Operating Pressure for ne Suction Side	MPa	2.5
	ound Pressure Level (H/M/L)	dB (A)	56/-/-
Se	ound Power Level (H/M/L)	dB (A)	65/-/-
Di	limension(WXHXD)	mm	802X555X350
Di	imension of Carton Box (LXWXH)	mm	869X395X594
Di	imension of Package(LXWXH)	mm	872X398X620
N	let Weight	kg	30.5
G	Gross Weight	kg	33
R	efrigerant		R32
R	efrigerant Charge	kg	0.82
C	connection Pipe Length	m	5
C	connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
M	1ax Distance Height	m	10
Μ	lax Distance Length	m	25
N	lote: The connection pipe applies metric diamete	er.	

Model			1.GWH18QD-K6DND2I 2.GWH18QD-K6DNB8I 3.GWH18QD-K6DNB2I 4.GWH18QD-K6DNB4I 5.GWH18QD-K6DND6I 6.GWH18QD-K6DNB6I 7.GWH18QD-K6DNC6I 8.GWH18QD-K6DNA2I	
Product (	Code		1.CB461007601 2.CB438014001 3.CB432026201 4.CB434022401 5.CB460011501 6.CB435014201 7.CB443011001 8.CB426008801	
	Rated Voltage	V~	220-240	
Power	Rated Frequency	Hz	50	
Supply	Phases		1	
Power Su	upply Mode		Outdoor	
Cooling C	Capacity	W	5200	
Heating (		W	5600	
	Power Input	W	1576	
Heating F	Power Input	W	1436	
	Current Input	Α	7.1	
-	Current Input	Α	6.3	
Rated Inp	· · · · · · · · · · · · · · · · · · ·	W	2400	
	ooling Current	Α	10.5	
	eating Current	Α	11	
Air Flow		m <sup>3</sup> /h	850/750/680/610/570/520/460	
-	ifying Volume	L/h	1.90	
EER		W/W	3.299	
COP		W/W	3.9	
SEER			7.1	
SCOP (Warmer/Average/Colder)			5.7/4.2/3.4	
Application Area		m <sup>2</sup>	23-34	
- ipplied in	Model		1.GWH18QD-K6DND2I/I 2.GWH18QD-K6DNB8I/I 3.GWH18QD-K6DNB2I/I 4.GWH18QD-K6DNB4I/I 5.GWH18QD-K6DND6I/I 6.GWH18QD-K6DNB6I/I 7.GWH18QD-K6DNC6I/I 8.GWH18QD-K6DNA2I/I	
	Product Code		1.CB461N07601 2.CB438N14000 3.CB432N26201 4.CB434N22400 5.CB460N11500 6.CB435N14200 7.CB443N11000 8.CB426N08800	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф106X706	
	Cooling Speed	r/min	1230/1170/1100/1020/960/880/800/550	
	Heating Speed	r/min	1400/1270/1200/1130/1050/980/900	
	Fan Motor Power Output	W	45	
	Fan Motor RLA	Α	0.24	
	Fan Motor Capacitor	μF	1	
	Evaporator Form		Aluminum Fin-copper Tube	
Indoor	Evaporator Pipe Diameter	mm	φ7	
Unit	Evaporator Row-fin Gap	mm	2-1.4	
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	
	Swing Motor Model		MP35CJ/MP24HF	
	Swing Motor Power Output	W	2.5/1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling:44/43/41/38/36/34/30 Heating:48/45/42/40/38/36/33	
	Sound Power Level	dB (A)	Cooling:60/56/54/51/4947/43 Heating:60/58/55/53/51/49/46	
	Dimension (WXHXD)	mm	970X300X224	
	Dimension of Carton Box (LXWXH)	mm	1020X370X294	
	Dimension of Package (LXWXH)	mm	1025X378X304	
	Net Weight	kg	13	
-	Gross Weight	kg	15.5	

	Outdoor Unit Model Outdoor Unit Product Code Compressor Manufacturer Compressor Model Compressor Oil		GWH18AFD-K6DNA2I/O(LCLH) CB363W04201 ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Manufacturer		
	compressor Model		
	-		QXF-A120zH170A
C			FW68DA or equivalent
C	Compressor Type		Rotary
	compressor LRA.	Α	18.00
	Compressor RLA	A	5.00
	Compressor Power Input	W	1096
	compressor Overload Protector		HPC115/95U1/KSD115°C
	hrottling Method		Electron expansion valve
	et Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	leating Operation Ambient Temperature Range	°C	-25~30
	condenser Form		Aluminum Fin-copper Tube
	condenser Pipe Diameter	mm	Φ7
	condenser Rows-fin Gap	mm	2-1.4
	condenser Coil Length (LXDXW)	mm	895X38.1X528
	an Motor Speed	rpm	880
	an Motor Power Output	W	30
<b>F</b> .	an Motor RLA	A	0.40
	an Motor Capacitor	μF	/
			<u>/</u>
	leater Power Input	W m³/h	/
	Outdoor Unit Air Flow Volume	m /n	2200
	an Type an Diameter		Axial-flow
		mm	
	Perfosting Method		Automatic Defrosting
	limate Type		T1
	solation loisture Protection		
	ermissible Excessive Operating Pressure for		IPX4
th	ne Discharge Side	MPa	4.3
	ermissible Excessive Operating Pressure for ne Suction Side	MPa	2.5
	ound Pressure Level (H/M/L)	dB (A)	56/-/-
Se	ound Power Level (H/M/L)	dB (A)	65/-/-
Di	limension(WXHXD)	mm	802X555X350
Di	imension of Carton Box (LXWXH)	mm	869X395X594
Di	imension of Package(LXWXH)	mm	872X398X620
N	let Weight	kg	30.5
G	Gross Weight	kg	33
R	efrigerant		R32
R	efrigerant Charge	kg	0.82
C	connection Pipe Length	m	5
C	connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
M	1ax Distance Height	m	10
Μ	lax Distance Length	m	25
N	lote: The connection pipe applies metric diamete	er.	

Model			GWH18QD-K6DNC4D
Product Code	9		CB444012303
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa		W	5200
Heating Capa	•	W	5300
Cooling Powe		W	1528
Heating Powe	· · ·	W	1410
Cooling Curre	· · ·	Α	6.78
Heating Curr		Α	6.26
Rated Input		W	2600
Rated Coolin	a Current	Α	6.78
Rated Heatin	•	A	11.5
Air Flow Volu	-	m³/h	800/720/650/610/570/520/470
Dehumidifyin		L/h	1.8
EER	g volume	W/W	3.4
COP		W/W	3.76
SEER			7
SCOP (Warmer/Average/Colder)			/
Application A		m <sup>2</sup>	23-34
reprioation			GWH18QD-K6DNC4D/I
	Model		
	Product Code		CB444N12302
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф106Х706
	Cooling Speed	r/min	1230/1150/1080/980/900/850/800
	Heating Speed	r/min	1350/1250/1150/1050/980/900/850
	Fan Motor Power Output	W	35
	Fan Motor RLA	Α	0.35
	Fan Motor Capacitor	μF	2.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8
	Swing Motor Model		MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling:45/43/41/38/35/34/31
		u= (; ;)	Heating:47/45/42/40/38/35/33 Cooling:59/57/55/52/49/48/45
	Sound Power Level	dB (A)	Heating:61/59/56/54/52/49/47
	Dimension (WXHXD)	mm	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1038X380X305
	Dimension of Package (LXWXH)	mm	1041X383X320
	Net Weight	kg	13.5
	Gross Weight	kg	16.5

	Outdoor Unit Model		GWH18QD-K6DNA1D/O(LC)
	Outdoor Unit Product Code		CB419W15601
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-B141ZF030F
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	25
	Compressor RLA	A	6.5
	Compressor Power Input	W	1410
	Compressor Overload Protector		HPC115/95U1 KSD115℃
	Throttling Method		Electron expansion valve
	Set Temperature Range	٥C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	851X38.1X660
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.4
Outdoor Unit	Fan Motor Capacitor	μF	/
Onit		W	
	Heater Power Input Outdoor Unit Air Flow Volume	m³/h	3200
	Fan Type	111 /11	Axial-flow
	Fan Diameter	mm	Φ520
	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 (H/M/L)	dB (A)	57/-/-
	Sound Power Level (H/M/L)	dB (A)	64/-/-
	Dimension(WXHXD)	mm	965X700X396
	Dimension of Carton Box (LXWXH)	mm	1026X455X735
	Dimension of Package(LXWXH)	mm	1029X458X750
	Net Weight	kg	45
	Gross Weight	kg	49.5
	Refrigerant		R32
	Refrigerant Charge	kg	1
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
<b>.</b> .	Outer Diameter Liquid Pipe	inch	Φ6
Connection Pipe	Outer Diameter Gas Pipe	inch	Φ12
i ihe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	ər.	

Model			1.GWH18QD-K6DNB2E 2.GWH18QD-K6DNC4A 3.GWH18QD-K6DNC2A	GWH18QD-K6DNE4A GWH18QDXB-K6DND8E
Product Code	e		1.CB432026600 2.CB444013700 3.CB439018400	CB470008300 CB459009602
	Rated Voltage	V~	220-240	220-240
Power Supply	Rated Frequency	Hz	50	50
Oupply	Phases		1	1
Power Supply	y Mode		Outdoor	Outdoor
Cooling Capa	acity	W	4600	4600
Heating Capa	acity	W	5200	5200
Cooling Powe	er Input	W	1355	1355
Heating Powe	-	W	1340	1340
Cooling Curre	•	A	5.9	5.9
Heating Curre	•	Α	5.8	5.8
Rated Input		W	1900	1900
Rated Cooling	a Current	A	8	8
Rated Heatin		A	9	9
Air Flow Volu	•	m <sup>3</sup> /h	850/800/700/600	850/800/700/600
Dehumidifyin		L/h	1.80	1.80
EER	g volume	W/W	3.39	3.39
COP				
		W/W	3.88	3.88
SEER			6.4	6.4
	ner/Average/Colder)		4.0	4.0
Application A	rea	m²	12-18	12-18
	Model		1.GWH18QD-K6DNB2E/I 2.GWH18QD-K6DNC4A/I 3.GWH18QD-K6DNC2A/I	GWH18QD-K6DNE4A/I GWH18QDXB-K6DND8E/I
	Product Code		1.CB432N26600 2.CB444N13700 3.CB439N18400	CB470N08300 CB459N09602
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф 106×706	Φ 106×706
	Cooling Speed	r/min	1230/1170/1020/800	1230/1170/1020/800
	Heating Speed	r/min	1350/1270/1130/900	1350/1270/1130/900
	Fan Motor Power Output	W	35	35
	Fan Motor RLA	A	0.45	0.45
	Fan Motor Capacitor	μF	2.5	2.5
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Indoor Unit		mm	Φ7	Φ7
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715×25.4×304.8	715×25.4×304.8
	Swing Motor Model		MP35CJ	MP35CJ/MP24HF
		۱۸/		
	Swing Motor Power Output Fuse Current	W	<u> </u>	1.5/1.5 3.15
		A	3.15 Cooling:44/42/38/34	3.15 Cooling:44/42/38/34
	Sound Pressure Level	dB (A)	Heating:48/46/41/37	Heating:48/46/41/37
	Sound Power Level	dB (A)	Cooling:54/52/48/44 Heating:58/56/51/47	Cooling:54/52/48/44 Heating:58/56/51/47
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1038X380X305	1038X380X305
	Dimension of Package (LXWXH)	mm	1041X383X320	1041X383X320
	Net Weight	kg	13.5	13.5
	Gross Weight	kg	16	16

	Outdoor Unit Model		GWH18ALD-K6DNA1A/O
	Outdoor Unit Product Code		CB513W01600
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		FTz-AN108ACBD
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	A	19
	Compressor RLA	A	4.4
	Compressor Power Input	W	952
	Compressor Overload Protector	•••	
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient		10~30
	Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	900
Outdoor	Output of Fan Motor	W	30
Unit	Fan Motor RLA	A	0.40
	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	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 (H/M/L)	dB (A)	55/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	26.5
	Gross Weight	kg	29
	Refrigerant	ייש שיי	R32
	Refrigerant Charge	kg	0.75
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge		16
	Outer Diameter Liquid Pipe		1/4
Connection	Outer Diameter Liquid Pipe	inch	3/8
Pipe	Outer Diameter Gas Pipe	inch	
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric	c diameter.	

Model			GWH24QE-K6DNC4E
Product Code			CB444009802
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply			Outdoor
Cooling Capa		W	7000
Heating Capa		W	7400
Cooling Powe		W	1900
Heating Powe	· · · ·	W	1897
Cooling Curre		A	8.73
Heating Curre		A	8.84
Rated Input		W	3750
Rated Coolin	a Current	A	8.73
Rated Heatin	•	A	17.5
Air Flow Volu	*	m³/h	1250/1100/1000/950/900/850/750
Dehumidifyin		L/h	2.4
EER	g volume	W/W	3.68
COP		W/W	3.90
			6.5
SEER SCOP (Warmer/Average/Colder)			/
		m <sup>2</sup>	27-42
Application A		m	
	Model		GWH24QE-K6DNC4E/I
	Product Code		CB444N09802
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф108Х830
	Cooling Speed	r/min	1250/1150/1050/950/900/850/800
	Heating Speed	r/min	1250/1150/1050/1000/950/900/850
	Fan Motor Power Output	W	35
	Fan Motor RLA	А	0.35
	Fan Motor Capacitor	μF	3
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	850X25.4X342.9
	Swing Motor Model		MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling:48/45/42/39/37/36/33
		ub (A)	Heating:47/45/42/40/39/37/35 Cooling:58/55/52/49/47/46/43
	Sound Power Level	dB (A)	Heating:62/60/57/55/54/52/50
	Dimension (WXHXD)	mm	1078X325X246
	Dimension of Carton Box (LXWXH)	mm	1145X410X335
	Dimension of Package (LXWXH)	mm	1148X413X350
	Net Weight	kg	16.5
	Gross Weight	kg	20

Outdoor Unit Product Code         Image: Compression Manufacturer         Image: Compression Manufacturer           Compression Manufacturer         Image: Compression Manufacturer         Image: Compression Compression Type           Compression Type         Image: Compression Type         Image: Compression Type           Compression RLA         A         Path           Compression Coverboad Protector         Image: Compression Type         Image: Compression Type           Compression Coverboad Protector         Image: Compression Type         Image: Compression Type           Throttling Method         Image: Compression Coverboad Protector         Image: Compression Type           Throttling Method         Image: Compression Type         Image: Compression Type           Torottling Method         Image: Compression Type         Image: Compression Type           Torottling Method         Image: Compression Type         Image: Compression Type           Condenser Form         Image: Compression Type         Image: C		Outdoor Unit Model		GWH24QE-K6DNA1E/O(LC)
Compressor Manufacturer         Image: Compressor Model         Compressor Model           Compressor Model         Compressor Model         Compressor Model           Compressor Type         Image: Compressor Type         Retary           Compressor Type         A         24           Compressor Type         M         Retary           Compressor Type         M         240           Compressor Power Input         W         2420           Conding Operation Ambient Temperature Range         C         -16-30           Condenser Form         M         0.01           Condenser Form         mm         0.07           Condenser Fold Diameter         mm         0.07           Condenser Coll Langit (LXDXV)         mm         9833.14860           Fan Motor Speed         rpm         8000           Fan Motor Speed         rpm         8000           Fan Motor Speed         rpm         400.058           Fan Motor Speed         rpm         400.058           Fan Motor Speed         rpm         400.058 </td <td></td> <td></td> <td></td> <td></td>				
Compressor Model         OXFS-D25xX090H           Compressor Oil         RV88DA           Compressor Type         Rolary           Compressor IRA         A           Compressor Cheroad Protector         HPC115/95/UrKSD15 U           Throtting Method         Electromaxino value           Set Temperature Range         °C         16-30           Cocing Operation Ambient Temperature Range         °C         1-5-24           Condenser Form         Aluminum Fin-copper Tube         -15-24           Condenser Rows fin Gap         mm         -21.4           Condenser Rows fin Quit         W         60           Fan Motor Speed         rpm         800           Fan Motor Speed         rpm         400           Fan Motor Capacitor         µF         /           Heater Power Input         W         /				
Compressor Dil         Compressor Type         Rotary           Compressor Type         Rotary           Compressor RLA         A         24           Compressor RLA         A         11.7           Compressor RLA         A         11.7           Compressor RLA         A         11.7           Compressor Power Input         W         92420           Compressor Overiad Protector         HPC115/95U1/KSD115'C           Throttling Method         Electron expansion valve           Set Temperature Range         C         16-30           Condenser Form         Automium Encopper Tube           Condenser Fipe Diameter         mm         47.4           Condenser Coll Length (LXDXW)         mm         935X381X660           Fan Motor Speed         rpm         800           Fan Motor Speed         rpm         800           Fan Motor Clapacitor         µF         /           Fan Motor RLA         A         0.58           Fan Motor Rue         mm         4202           Outdoor Unit Air Flow Volume         m*h         3200           Fan Motor Rue         mm         4202           Defrosting Method         Unit Nuit Nuit Nuit Nuit Nuit Nuit Nuit Nu		•		
Compressor Type         Compressor LRA.         A         24           Compressor LRA.         A         24           Compressor Power Input         W         2420           Compressor Overing Power Input         W         2420           Compressor Overing Power Input         W         2420           Compressor Overing Power Input         W         1420           Throttling Method         Electron expansion valve           Set Temperature Range         °C         16-30           Condenser Form         M         Automium Fin-copper Tube           Condenser Form         m         0407           Condenser Form         m         0407           Condenser Rows-fin Gap         mm         0414           Condenser Rows-fin Gap         mm         0407           Fan Motor Speed         rpm         8000           Fan Motor Capacitor         µF         /           Pan Motor Capacitor         µF         /           Pan Motor Capacitor         µF         /           Outdoor Unit Ar Flow Volume         m?h         32000           Fan Motor Capacitor         µF         /           Part Motor Capacitor         µF         /           Outdoor Un		•		
Compressor RLA.         A         24           Compressor RLA         A         11.7           Compressor Over Input         W         2420           Compressor Overload Protector         HPC115/95U1/KSD115'C           Throttling Method         Electron expansion valve           Set Temperature Range         C         16-30           Cooling Operation Ambient Temperature Range         C         -15-43           Heating Operation Ambient Temperature Range         C         -15-43           Condenser Form         Multimum Fin-copper Tube         Condenser Form           Condenser Coil Length (LXDXW)         mm         923X81X660           Fan Motor RowerIng (LXDXW)         mm         923X81X660           Fan Motor RueA         A         0.58           Fan Motor Capacitor         µF         /           Permissible Excessive Operating Pressure for the Ischard Store         Min         3200           Fan Type         mm         4520           Definiting Method         In         1           Diameter         mm         4           Condenser Coil Length (LXDXW)         mm         4520           Fan Motor RLA         A         0.58           Fan Motor RLA         A <td< td=""><td></td><td></td><td></td><td></td></td<>				
Compressor RLA         A         11.7           Compressor Power Input         W         2420           Compressor Power Input         W         2420           Compressor Overcial Protector         HPC11589U1/KSD115°C           Throttling Mathod         Electron expansion valve           Set Temperature Range         °C         16-30           Condenser Pipe Diameter         mm         40           Condenser Fipe Diameter         mm         47           Condenser Fipe Diameter         mm         47           Condenser Fipe Diameter         mm         47           Condenser Form         600         60           Fan Motor Speed         rpm         600           Fan Motor Speed         rpm         600           Fan Motor Capacitor         µF         /           Heater Power Output         W         60           Fan Motor Capacitor         µF         /           Heater Power Input         W         /           Outdoor         Int Air Flow Volume         m²h           Fan Motor Capacitor         µF         /           Heater Power Input         W         /           Outor Unit Air Flow Volume         m²h         32000 <td></td> <td></td> <td>Α</td> <td>-</td>			Α	-
Compressor Power Input         W         2420           Compressor Overload Protector         HPC115/95/U15/C           Trotting Method         Ellectron expansion valve           Set Temperature Range         °C           Cooling Operation Ambient Temperature Range         °C           Cooling Operation Ambient Temperature Range         °C           Condenser Form         Aluminum Fin-copper Tube           Condenser Form         Muninum Fin-copper Tube           Condenser Coil Longth (LXDXW)         mm           Fan Motor Speed         rpm           Fan Motor Speed         rpm           Motor RUA         A           Outdoor         Fan Motor Capacitor         µF           Ander Fower Input         W           Fan Motor Capacitor         µF           Vittor         mm         4220           Defrosting Method         Mitor Rua         0.58           Fan Inpe         mitor         1           Outdoor Unit Air Flow Volume         m <sup>7</sup> /h         3200           Fan Type         m         4           Diameter         mm         452.0           Defrosting Method         Intellow         1           Moisture Protection         m         1				
Compressor Overload Protector         IHPC115/95U1/KSD116°C           Throtting Method         Electron expansion valve           Ext 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 Form           Condenser Form         mm         -2.14           Condenser Coll Length (LXDXW)         mm         935X81X660           Fan Motor Speed         rpm         800           Fan Motor Speed         rpm         1           Outdoor Unit Air Flow Volume         m <sup>7</sup> /h         3200           Fan Spe         AdviterTow         1           Notor Spearber         mm         4314-flow           Fan Disoter Strong Stoke         remainsite Spearber         MPa		•		
Throttling Method         Image: Control of C		· · · ·		-
Set Temperature Range         °C         16-30           Cooling Operation Ambient Temperature Range         °C         -15-24           Condenser Form         Aluminum Fin-copper Tube           Condenser Pipe Diameter         mm         Ф7           Condenser Coil Length (XDXW)         mm         21.4           Condenser Coil Length (XDXW)         mm         935X38.1X660           Fan Motor Speed         rpm         800           Fan Motor Capacitor         µF         /           Heater Power Output         W         60           Fan Motor Capacitor         µF         /           Heater Power Input         W         /           Outdoor Uni Air Flow Volume         m?/h         32000           Fan Type         Axial-flow         Automatic Detrosting           Climate Type         T1         Isolation         I           Motisture Protection         IPX4         4.3           Permissible Excessive Operating Pressure for the Suction Side         MPa         4.3           Sound Pressure Level (HML)         dB (A)         67//-           Sound Pressure Level (HML)         dB (A)         67//-           Dimension of Catton Box (LXWXH)         mm         10282X458X750           <		· · ·		
Cooling Operation Ambient Temperature Range         °C         -15-43           Heating Operation Ambient Temperature Range         °C         Aluminum Encoopper Tube           Condenser Form         Muminum Encoopper Tube         Condenser Form           Condenser Coil Length (LXDXW)         mm         9214.4           Condenser Coil Length (LXDXW)         mm         935X811X660           Fan Motor Roeed         rpm         800           Fan Motor RLA         A         0.58           Fan Type         mm         4200           Fan Type         mm         430			°C	
Heating Operation Ambient Temperature Range         °C         -15-24           Condenser Form         Aluminum Fin-copper Tube           Condenser Rows-fin Cap         mm         Ф7           Condenser Coil Length (LXDXW)         mm         935X38.1X660           Fan Motor Speed         rpm         800           Fan Motor Speed         rpm         800           Fan Motor Capacitor         µF         /           Heater Power Output         W         60           Outdoor         Fan Motor Capacitor         µF         /           Heater Power Output         W         /         0.58           Outdoor Unit Air Flow Volume         m <sup>7</sup> /n         3200           Fan Type          Axial-flow           Fan Type          Axial-flow           Fan Type          1           Isolation         I         I           Isolation         I         I           Bischarge Side         Meral 4.3         Permissible Excessive Operating Pressure for the Discharge Side         MPa         2.5           Sound Pressure Level (H/ML)         dB (A)         671/-/         5           Dimension of Package(LXWXH)         mm         1029X458X735      D			-	
Condenser Form Condenser Form Minima Fin-copper Tube Condenser Pipe Diameter Minima G7 Condenser Rows-fin Gap Minima G7 Fan Motor Speed Fan Motor Capacitor Minima G7 Heater Power Duput Winima G7 Outdoor Fan Motor Capacitor Minima G7 Outdoor Fan Motor Capacitor Minima G7 Fan Motor Capacitor Minima G7 Outdoor Init Air Flow Volume Minima G7 Outdoor Jinit Air Flow Volume Minima G7 Outdoor Jinit Air Flow Volume Minima G7 Fan Type Jinita Flow Volume Minima G7 Outdoor Jinit Air Flow Volume Minima G7 Fan Type Jinita Flow Volume Minima G7 Defrosting Method Jinita G7 Fan Type Jinita Type Jinita G7 Fan Type Jinita G7 Fan Spe G8 Fan Spe G8 Fan Type Jinita G7 Fan Type Jinita G7 Fan Type Jinita G7 Fan Spe G8 Fan Type Jinita G7 Fan Type Jinita G				
Condenser Pipe Diameter         mm         Ф7           Condenser Rows-fin Gap         mm         2-1.4           Condenser Coil Length (LXDXW)         mm         93538.1X660           Fan Motor Speed         rpm         8000           Fan Motor Power Output         W         60           Vinto         Fan Motor RLA         A         0.58           Fan Motor RLA         A         0.58           Outdoor Unit Air Flow Volume         m <sup>3</sup> /h         3200           Fan Motor RLA         A         0.58           Outdoor Unit Air Flow Volume         m <sup>3</sup> /h         3200           Fan Type         Maxia-flow         /           Outdoor Unit Air Flow Volume         m <sup>3</sup> /h         3200           Fan Type         M         Axia-flow           Fan Diameter         mm         4520           Defrosting Method         IPX4         Permissible Excessive Operating Pressure for the Discharge Side         MPa         4.3           Condenser Level (HML)         dB (A)         677/-/-         Dimension of Carton Box (LXWXH)         mm         1028X458X735           Dimension of Carton Box (LXWXH)         mm         1028X458X735         3.5         Gross Weight         Kg         5.5				-
Outdoor         Condenser Rows-fin Gap         mm         2-1.4           Condenser Coil Length (LXDXW)         mm         935X38.1X660           Fan Motor Speed         rpm         800           Fan Motor Speed         rpm         800           Fan Motor Capacitor         µF         /           Heater Power Input         W         60           Unitit         Fan Motor Capacitor         µF         /           Heater Power Input         W         /         0           Outdoor Unit Air Flow Volume         m <sup>N</sup> /h         3200           Fan Type         Axial-flow         4           Fan Diameter         mm         4520           Defrosting Method         1         1           Isolation         I         1           Moisture Protection         IPX4         1           Permissible Excessive Operating Pressure for the Discharge Side         MPa         2.5           Sound Power Level (H/M/L)         dB (A)         67/-/-           Sound Power Level (H/M/L)         dB (A)         67/-/-           Dimension of Carton Box (LXWXH)         mm         1026X455X735           Dimension of Carton Box (LXWXH)         mm         1026X456X750           Net Wei			mm	
Condenser Coil Length (LXDXW)         mm         935X38.1X860           Fan Motor Speed         rpm         800           Fan Motor Speed         rpm         800           Fan Motor Power Output         W         60           Fan Motor Capacitor         µF         /           Heater Power Input         W         //           Outdoor Unit Air Flow Volume         m <sup>7</sup> /n         3200           Fan Type         Axial-flow           Fan Type         Axial-flow           Fan Diameter         mm         Φ520           Defrosting Method         1         Moisture Protection           Climate Type         -         T1           Isolation         1         NPA           Permissible Excessive Operating Pressure for the Discharge Side         MPa         2.5           Sound Pressure Level (H/ML)         dB (A)         67/-/-           Dimension of Carton Box (LXWXH)         mm         1028X458X750           Dimension of Package(LXWXH)         mm         1028X458X750           Dimension of Package(LXWXH)         mm         1028X458X750           Net Weight         kg         53.5           Connection Pipe Length         m         5           Connection Pip		-		
Fan Motor Speed         rpm         800           Outdoor         Fan Motor Power Output         W         60           Fan Motor RLA         A         0.58           Fan Motor Capacitor         µF         /           Heater Power Input         W         /           Outdoor Unit Air Flow Volume         m²/h         3200           Fan Diameter         mm         Ф520           Defrosting Method         Automatic Defrosting           Climate Type         1         Motoratic Defrosting           Climate Type         1         Motoratic Defrosting           Outsture Protection         1         1           Moisture Protection         1PX4           Permissible Excessive Operating Pressure for the Discharge Side         MPa         2.5           Sound Power Level (H/M/L)         dB (A)         67/-/-           Dimension of Carton Box (LXWXH)         mm         1028X455X735           Dimension of Carton Box (LXWXH)         mm         1028X455X735           Dimension of Package(LXWXH)         m         1028X455X705           Net Weight         kg         53.5           Gronection Pipe Length         m         55           Connection Pipe Length         m         50 </td <td></td> <td></td> <td></td> <td></td>				
Fan Motor Power Output         W         60           Outdoor         Fan Motor RLA         A         0.58           Fan Motor Capacitor         µF         /           Heater Power Input         W         /           Outdoor Unit Air Flow Volume         m <sup>7</sup> /n         3200           Fan Type          Axial-flow           Fan Type          Automatic Defrosting           Climate Type          Automatic Defrosting           Climate Type          1           Isolation          1           Moisture Protection          1           Permissible Excessive Operating Pressure for the Suction Side         MPa         2.5           Sound Prosesure Level (H/ML)         dB (A)         67/-/-           Dimension of Package(LXWXH)         mm         1028X455X735           Dimension of Package(LXWXH)         mm         1028X455X750           Net Weight         kg         53.5           Connection Pipe Length         m         50           Refrigerant Charge         kg         1.7           Connection Pipe Length         m         50           Outer Diameter Liquid Pipe         inch         1.4				
Outdoor UnitFan Motor RLAA0.58Fan Motor CapacitorµF/Heater Power InputW/Outdoor Unit Air Flow Volumem <sup>3</sup> /h3200Fan TypeMAxial-flowFan Diametermm04520Defrosting MethodAutomatic DefrostingClimate TypeI1IsolationIIMisture ProtectionIPermissible Excessive Operating Pressure for the Discharge SideMPa2.5Sound Pressure Level (H/ML)dB (A)57/-/-Sound Pressure Level (H/ML)dB (A)67/-/-Dimension of Package(LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1028X458X750Net Weightkg53.5Gross Weightkg53.5Connection Pipe Lengthm5Outer Diameter Cargeg/m50Outer Diameter Cargeg/m50Outer Diameter Liquid Pipeinch1//4Max Distance Heightm10Max Distance Heightm10		-		
Unit         Fan Motor Capacitor         µF         /           Heater Power Input         W         /           Qutdoor Unit Air Flow Volume         m <sup>3</sup> /h         3200           Fan Type         M         Axial-flow           Fan Diameter         mm         04520           Defrosting Method         M         Automatic Defrosting           Climate Type         M         1           Isolation         I         I           Isolation         I         I           Moisture Protection         MPa         4.3           Permissible Excessive Operating Pressure for the Discharge Side         MPa         2.5           Sound Pressure Level (H/ML)         dB (A)         571/-/-           Sound Pressure Level (H/ML)         dB (A)         671/-           Dimension of Carton Box (LXWXH)         mm         1026X455X735           Dimension of Package(LXWXH)         mm         1029X458X750           Net Weight         kg         53.5           Gross Weight         kg         1.7           Connection Pipe Length         m         5           Outer Diameter Liquid Pipe         inch         1.1/4           Outer Diameter Gas Pipe         inch         5/8		·		
Heater Power Input         W         /           Outdoor Unit Air Flow Volume         m³/h         3200           Fan Type         Axial-flow           Fan Type         Mm         Φ520           Defrosting Method         Automatic Defrosting           Climate Type         1           Isolation         I           Moisture Protection         IPX4           Permissible Excessive Operating Pressure for the Discharge Side         MPa           Permissible Excessive Operating Pressure for the Suction Side         MPa           Sound Pressure Level (H/ML)         dB (A)         57/-/-           Sound Pressure Level (H/ML)         dB (A)         67/-/-           Dimension of Carton Box (LXWXH)         mm         1026X455X735           Dimension of Package(LXWXH)         mm         1028X458X750           Net Weight         kg         53.5           Gross Weight         kg         53.5           Connection Pipe Length         m         5           Connection Pipe Length         m         5           Outer Diameter Liquid Pipe         inch         1/4           Outer Diameter Gas Pipe         inch         5/8           Max Distance Height         m         10 <td></td> <td></td> <td></td> <td>0.36</td>				0.36
Qutdoor Unit Air Flow Volumem³/h3200Fan TypeMAxial-flowFan TypemmΦ520Defrosting MethodMAutomatic DefrostingClimate TypeIAutomatic DefrostingIsolationIIMoisture ProtectionMPaIPX4Permissible Excessive Operating Pressure for the Discharge SideMPa2.5Sound Pressure Level (H/ML)dB (A)67/-/-Sound Pressure Level (H/ML)dB (A)67/-/-Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1028X458X750Net Weightkg53.5Gross Weightkg58Refrigerantm5Connection Pipe Lengthm5Outer Diameter Gas Pipeinch1/4Outer Diameter Gas Pipeinch1/4Max Distance Heightm10	Unit		-	1
Fan TypemmAxial-flowFan DiametermmФ520Defrosting MethodMAutomatic DefrostingClimate TypeMT1IsolationIIMoisture ProtectionMPaIPX4Permissible Excessive Operating Pressure for the Discharge SideMPa2.5Sound Pressure Level (H/M/L)dB (A)67//-Sound Pressure Level (H/M/L)dB (A)67//-Dimension of Carton Box (LXWXH)mm965X700X396Dimension of Package(LXWXH)mm1026X455X735Dimension of Package(LXWXH)kg53.5Gross Weightkg58Refrigerantkg58Refrigerant Chargekg1.7Connection Pipe Lengthm5Outer Diameter Liquid Pipeinch5/8Max Distance Heightm10Max Distance Lengthm10		· · · · · · · · · · · · · · · · · · ·		/
Fan DiametermmФ520Defrosting MethodIAutomatic DefrostingClimate TypeIAutomatic DefrostingIsolationIIIsolationIIMoisture ProtectionMPaIPX4Permissible Excessive Operating Pressure for the Discharge SideMPa4.3Permissible Excessive Operating Pressure for the Suction SideMPa2.5Sound Pressure Level (H/ML)dB (A)67/-/-Dimension of Carton Box (LXWXH)mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)kg53.5Gross Weightkg53.5RefrigerantKg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Leightinch1/4Max Distance Heightm10Max Distance Lengthm10			m /n	
Defrosting MethodImage: constraint of the section of the				
Climate TypeImage: Climate TypeIsolationImage: Climate TypeIsolationImage: Climate TypeIsolationImage: Climate TypeMoisture ProtectionMPaPermissible Excessive Operating Pressure for the Discharge SideMPaPermissible Excessive Operating Pressure for the Suction SideMPaSound Pressure Level (H/M/L)dB (A)Sound Pressure Level (H/M/L)dB (A)Sound Power Level (H/M/L)dB (A)Dimension of Carton Box (LXWXH)mmDimension of Carton Box (LXWXH)mmMet WeightkgSos WeightkgRefrigerantRa32Refrigerant ChargekgConnection Pipe LengthmConnection Pipe Gas Additional Chargeg/mOuter Diameter Liquid PipeinchMax Distance HeightmMax Distance LengthmMax Distance Lengthm <td></td> <td></td> <td>mm</td> <td></td>			mm	
IsolationIIsolationIMoisture ProtectionIPX4Permissible Excessive Operating Pressure for the Discharge SideMPaPermissible Excessive Operating Pressure for the Suction SideMPaSound Pressure Level (H/M/L)dB (A)Sound Pressure Level (H/M/L)dB (A)Sound Power Level (H/M/L)dB (A)Dimension(WXHXD)mmDimension of Carton Box (LXWXH)mmDimension of Carton Box (LXWXH)mmMea58Gross WeightkgRefrigerantR32Refrigerant ChargekgConnection Pipe LengthmConnection Pipe Gas Additional Chargeg/mOuter Diameter Clargid PipeinchOuter Diameter Gas PipeinchMax Distance HeightmMax Distance LengthmMax Distance Lengthm				
Moisture ProtectionImage: Moisture ProtectionImage: Metain protectionPermissible Excessive Operating Pressure for the Discharge SideMPa4.3Permissible Excessive Operating Pressure for the Suction SideMPa2.5Sound Pressure Level (H/M/L)dB (A)57/-/-Sound Pressure Level (H/M/L)dB (A)67/-/-Dimension(WXHXD)Mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Carton Box (LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg58Refrigerantkg1.7Refrigerant Chargekg1.7Connection Pipe Lengthm5Outer Diameter Liquid Pipeinch5/8Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm10				
Permissible Excessive Operating Pressure for the Discharge SideMPa4.3Permissible Excessive Operating Pressure for the Suction SideMPa2.5Sound Pressure Level (H/M/L)dB (A)57/-/-Sound Power Level (H/M/L)dB (A)67/-/-Dimension(WXHXD)mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1026X455X735Refrigerantkg53.5Gross Weightkg58Refrigerant Chargekg1.7Connection Pipe Lengthm50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm10				
the Discharge SideIMPA4.3Permissible Excessive Operating Pressure for the Suction SideMPa2.5Sound Pressure Level (H/M/L)dB (A)57/-/-Sound Power Level (H/M/L)dB (A)67/-/-Dimension(WXHXD)mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg58Refrigerantkg1.7Refrigerant Chargekg1.7Connection Pipe Lengthm50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm10Max Distance Lengthm25				IPX4
the Suction SideIMPA2.5Sound Pressure Level (H/M/L)dB (A)57/-/-Sound Power Level (H/M/L)dB (A)67/-/-Dimension(WXHXD)mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg58Refrigerantkg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		the Discharge Side	MPa	4.3
Sound Power Level (H/M/L)dB (A)67/-/-Dimension(WXHXD)mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg58Refrigerantkg58Refrigerant Chargekg1.7Connection Pipe Lengthm5Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25			MPa	2.5
Dimension(WXHXD)mm965X700X396Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg58RefrigerantkgR32Refrigerant Chargekg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Sound Pressure Level (H/M/L)	dB (A)	57/-/-
Dimension of Carton Box (LXWXH)mm1026X455X735Dimension of Package(LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg53.5Gross Weightkg58RefrigerantmmR32Refrigerant Chargekg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Sound Power Level (H/M/L)	dB (A)	67/-/-
Dimension of Package(LXWXH)mm1029X458X750Net Weightkg53.5Gross Weightkg58RefrigerantcR32Refrigerant Chargekg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Dimension(WXHXD)	mm	965X700X396
Net Weightkg53.5Gross Weightkg58Gross Weightkg58RefrigerantmR32Refrigerant Chargekg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Dimension of Carton Box (LXWXH)	mm	1026X455X735
Gross Weightkg58RefrigerantRefrigerantR32Refrigerant Chargekg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Dimension of Package(LXWXH)	mm	1029X458X750
RefrigerantRefrigerantR32Refrigerant Chargekg1.7Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Net Weight	kg	53.5
Refrigerant Chargekg1.7Refrigerant Chargem5Connection Pipe Lengthm50Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Gross Weight	kg	58
Connection Pipe Lengthm5Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Refrigerant		R32
Connection Pipe Gas Additional Chargeg/m50Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Refrigerant Charge	kg	1.7
Outer Diameter Liquid Pipeinch1/4Outer Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Connection Pipe Length	m	5
Connection PipeOuter Diameter Gas Pipeinch5/8Max Distance Heightm10Max Distance Lengthm25		Connection Pipe Gas Additional Charge	g/m	50
Pipe     Outer Diameter Gas Pipe     Incn     5/8       Max Distance Height     m     10       Max Distance Length     m     25		Outer Diameter Liquid Pipe	inch	1/4
Max Distance Heightm10Max Distance Lengthm25		Outer Diameter Gas Pipe	inch	5/8
	i ihe	Max Distance Height	m	10
		Max Distance Length	m	25
		Note: The connection pipe applies metric diameter	er.	

Model			GWH24QD-K6DNC4B GWH24QD-K6DNB2B	GWH24QD-K6DNC2B GWH24QDXE-K6DND8B
Product Code	9		CB444013600 CB432026700	CB439018500 CB459009501
_	Rated Voltage	V~	220-240	220-240
Power Supply	Rated Frequency	Hz	50	50
Phases			1	1
Power Supply	y Mode		Outdoor	Outdoor
Cooling Capa	acity	W	6200	6200
Heating Capa	acity	W	6500	6500
Cooling Powe	er Input	W	1827	1827
Heating Powe	er Input	W	1912	1912
Cooling Curre	ent Input	A	7.6	7.6
Heating Curre	ent Input	A	7.6	7.6
Rated Input		W	2300	2300
Rated Cooling	g Current	A	9.3	9.3
Rated Heatin	•	A	10.2	10.2
Air Flow Volu	•	m³/h	900/800/600/400	900/800/600/400
Dehumidifyin		L/h	1.80	1.80
EER	-	W/W	3.40	3.40
СОР		W/W	3.40	3.40
SEER			6.8	6.8
SCOP (Warmer/Average/Colder)			5.1/4.0/-	5.1/4.0/-
Application A	<b>.</b> ,	m²	23-34	23-34
	Model		GWH24QD-K6DNC4B/I GWH24QD-K6DNB2B/I	GWH24QD-K6DNC2B/I GWH24QDXE-K6DND8B/I
	Product Code		CB444N13600 CB432N26700	CB439N18500 CB459N09501
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф106Х739	Ф106Х739
	Cooling Speed	r/min	1400/1300/1000/800	1400/1300/1000/800
	Heating Speed	r/min	1400/1270/1000/700	1400/1270/1000/700
	Fan Motor Power Output	W	50	50
	Fan Motor RLA	A	0.24	0.24
	Fan Motor Capacitor	μF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	715X25.4X304.8
	Swing Motor Model		MP35CJ	MP35CJ
	Swing Motor Power Output	W	2.5	2.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:48/45/37/30 Heating:48/45/37/26	Cooling:48/45/37/30 Heating:48/45/37/26
	Sound Power Level	dB (A)	Cooling:60/57/49/42 Heating:60/57/49/38	Cooling:60/57/49/42 Heating:60/57/49/38
	Dimension (WXHXD)	mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1038X380X305	1038X380X305
	Dimension of Package (LXWXH)	mm	1041X383X320	1041X383X320
	Net Weight	kg	13.5	13
	Gross Weight	kg	15.5	15.5

	Outdoor Unit Model		GWH24ALD-K6DNA1B/O
	Outdoor Unit Product Code		CB513W02200
	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	VV	/
	Throttling Method		Capillary
	Set Temperature Range	٥C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-0	Aluminum Fin-copper Tube
			Φ7.94
	Condenser Pipe Diameter	mm	2-1.4
	Condenser Rows-fin Gap	mm	848X38.1X528
	Condenser Coil Length (LXDXW)	mm	
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	40
Outdoor	Fan Motor RLA	A	0.70
Unit	Fan Motor Capacitor	μF	1
	Heater Power Input	W m <sup>3</sup> /h	/
	Outdoor Unit Air Flow Volume	m <sup>*</sup> /n	2800
	Fan Type		Axial-flow
	Fan Diameter	mm	¢445
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	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 (H/M/L)	dB (A)	57/-/-
	Sound Power Level (H/M/L)	dB (A)	65/-/-
	Dimension(WXHXD)	mm	873X555X376
	Dimension of Carton Box (LXWXH)	mm	948X428X591
	Dimension of Package(LXWXH)	mm	951X431X620
	Net Weight	kg	36.5
	Gross Weight	kg	39.5
	Refrigerant		R32
	Refrigerant Charge	kg	1.23
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Connection	Outer Diameter Liquid Pipe	inch	1/4
Pipe	Outer Diameter Gas Pipe	inch	1/2
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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Model			GWH24QE-K6DNB2I GWH24QE-K6DND2K GWH24QE-K6DNB6K
Product Code	e		CB432026300 CB461007800 CB435016800
_	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Cuppiy	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	7100
Heating Capa	acity	W	7800
Cooling Powe	er Input	W	2030
Heating Pow	er Input	W	2000
Cooling Curre	ent Input	A	9
Heating Curre		Α	9.3
Rated Input		W	3000
Rated Coolin	a Current	Α	13
Rated Heatin	-	A	13.5
Air Flow Volu	•	m <sup>3</sup> /h	1250/1100/1000/950/900/850/800
Dehumidifyin		L/h	2.40
EER	g volume	W/W	3.50
COP		W/W	3.90
SEER			7
			-
SCOP (Warmer/Average/Colder)		 m <sup>2</sup>	5.4/4.2/3.6
Application A		m	27-42 GWH24QE-K6DNB2I/I
	Model		GWH24QE-K6DND2K/I GWH24QE-K6DNB6K/I CB432N26300
	Product Code		CB452N20500 CB461N07800 CB435N16800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	108X830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/600
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60
	Fan Motor RLA	A	0.24
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
Indoor Unit	Evaporator Pipe Diameter	mm	Φ7
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	845X25.4X342.9
	Swing Motor Model		MP24HF/ MP35CJ
	Swing Motor Power Output	W	1.5/2.5
	Fuse Current	A	3.15
	Sound Pressure Level	dB (A)	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50
	Dimension (WXHXD)	mm	1078X325X246
	Dimension of Carton Box (LXWXH)	mm	1145X410X335
	Dimension of Package (LXWXH)		1148X413X350
	Net Weight	mm	
		kg	16
	Gross Weight	kg	19

	Outdoor Unit Model		GWH24AFE-K6DNA2I/O(LC)
	Outdoor Unit Product Code		CB363W04100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXFS-M180zX170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Twin Rotary
	Compressor LRA.	Α	35.00
	Compressor RLA	Α	3.50
	Compressor Power Input	W	1610
	Compressor Overload Protector		KSD115°C HPC 115/95U1
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839X38.1X616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
Outdoor	Fan Motor RLA	Α	0.25
Unit	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m³/h	3600
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф520
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side Permissible Excessive Operating Pressure for		т.о
	the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	59/-/-
	Sound Power Level (H/M/L)	dB (A)	70/-/-
	Dimension(WXHXD)	mm	958X660X402
	Dimension of Carton Box (LXWXH)	mm	1029X453X715
	Dimension of Package(LXWXH)	mm	1032X456X737
	Net Weight	kg	41.5
	Gross Weight	kg	46
	Refrigerant		R32
	Refrigerant Charge	kg	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	inch	1/4
Connection		inch	5/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	l	
		-	

Model			1.GWH24QE-K6DNA5I 2.GWH24QE-K6DNB8I 3.GWH24QE-K6DNB2I 4.GWH24QE-K6DNB4I 5.GWH24QE-K6DNA2I 6.GWH24QE-K6DNC6I 7.GWH24QE-K6DNB6I 8.GWH24QE-K6DND6I
Product Code			1.CB425016401 2.CB438014201 3.CB432026301 4.CB434022601 5.CB426008601 6.CB443010701 7.CB435014301 8.CB460011301
Rated Voltage		V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	v Mode		Outdoor
Cooling Capa	-	W	7100
Heating Capa	-	W	7800
Cooling Powe	•	W	2030
Heating Powe	•	W	2000
Cooling Curre	· · ·	A	9
Heating Curr	· ·	A	9.3
Rated Input		W	3000
Rated Coolin	a Current	A	13
Rated Heatin	·	A	13.5
Air Flow Volu	•	m³/h	13.5
Dehumidifyin	g volume	L/h	2.40
EER		W/W	3.50
COP		W/W	3.90
	SEER		7
SCOP (Warmer/Average/Colder)			5.4/4.2/3.4
Application A	rea	m²	27-42
	Model		1.GWH24QE-K6DNA5I/I 2.GWH24QE-K6DNB8I/I 3.GWH24QE-K6DNB2I/I 4.GWH24QE-K6DNB4I/I 5.GWH24QE-K6DNA2I/I 6.GWH24QE-K6DNC6I/I 7.GWH24QE-K6DNB6I/I 8.GWH24QE-K6DND6I/I
	Product Code		1.CB425N16400 2.CB438N14200 3.CB432N26301 4.CB434N22600 5.CB426N08600 6.CB443N10700 7.CB435N14300 8.CB460N11300
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	108X830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60
	Fan Motor RLA	Α	0.24
	Fan Motor Capacitor	μF	/
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	845X25.4X342.9
	Swing Motor Model		MP24HF/MP35CJ
	Swing Motor Power Output	W	1.5/2.5
	Fuse Current	A	3.15
			Cooling:48/44/41/40/38/36/33
	Sound Pressure Level	dB (A)	Heating:50/47/43/41/40/36/35
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50
	Dimension (WXHXD)	mm	1078X325X246
	Dimension of Carton Box (LXWXH)	mm	1145X410X335
	Dimension of Package (LXWXH)	mm	1148X413X350
	Net Weight	kg	16.5
	Gross Weight	kg	19.5

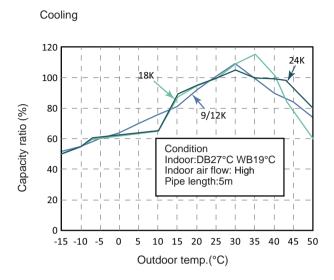
	Outdoor Unit Model		GWH24AFE-K6DNA2I/O(LCLH)
	Outdoor Unit Product Code		CB363W04101
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXFS-M180zX170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Twin Rotary
	Compressor LRA.	Α	35.00
	Compressor RLA	A	3.50
	Compressor Power Input	W	1610
	Compressor Overload Protector		KSD115°C HPC 115/95U1
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form	U	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839X38.1X616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
0.44	Fan Motor RLA	A	0.65
Outdoor Unit	Fan Motor Capacitor	μF	/
Onic	Heater Power Input	W	
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	3600
	Fan Type	111 /11	Axial-flow
	Fan Diameter	mm	Φ520
	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 (H/M/L)	dB (A)	59/-/-
	Sound Power Level (H/M/L)	dB (A)	70/-/-
	Dimension(WXHXD)	mm	958X660X402
	Dimension of Carton Box (LXWXH)	mm	1029X453X715
	Dimension of Package(LXWXH)	mm	1032X456X737
	Net Weight	kg	41.5
	Gross Weight	kg	46
	Refrigerant		R32
	Refrigerant Charge	kg	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
Connection	Outer Diameter Liquid Pipe	inch	1/4
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.	

Model			GWH24QE-K6DND2K	GWH24QE-K6DND2K	
Product Code	)		CB461007801	CB461007803/CB461007802/ CB461007804	
Damas	Rated Voltage	V~	220-240	220-240	
Power Supply	Rated Frequency	Hz	50	50	
0	Phases		1	1	
Power Supply	y Mode		Outdoor	Outdoor	
Cooling Capa	acity	W	7100	7100	
Heating Capa	acity	W	7800	7800	
Cooling Powe	er Input	W	2030	2030	
Heating Powe	er Input	W	2000	2000	
Cooling Curre	ent Input	A	9	9	
Heating Curre	ent Input	А	9.3	9.3	
Rated Input		W	3000	3000	
Rated Cooling	g Current	A	13	13	
Rated Heatin	g Current	A	13.5	13.5	
Air Flow Volu	me	m³/h	1250/1100/1000/950/900/850/800	1250/1100/1000/950/900/850/800	
Dehumidifyin	g Volume	L/h	2.40	2.40	
EER		W/W	3.50	3.50	
COP		W/W	3.90	3.90	
SEER			7	7	
SCOP (Warm	SCOP (Warmer/Average/Colder)		5.4/4.2/3.4	5.4/4.2/3.4	
Application A	rea	m <sup>2</sup>	27-42	27-42	
	Model		GWH24QE-K6DND2K/I	GWH24QE-K6DND2K/I	
	Product Code		CB461N07801	CB461N07803/CB461N07802/ CB461N07800	
	Fan Type		Cross-flow	Cross-flow	
	Fan Diameter Length(DXL)	mm	108X830	108X830	
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650	1250/1100/1000/950/900/850/800/650	
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850	1400/1250/1100/1050/1000/900/850	
	Fan Motor Power Output	W	60	60	
	Fan Motor RLA	A	0.24	0.24	
	Fan Motor Capacitor	μF	/	/	
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Φ7	Φ7	
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4	
Indoor Unit	Evaporator Coil Length (LXDXW)	mm	845X25.4X342.9	845X25.4X342.9	
	Swing Motor Model		MP24HF/MP35CJ	MP24HF/MP35CJ	
	Swing Motor Power Output	W	1.5/2.5	1.5/2.5	
	Fuse Current	А	3.15	3.15	
	Sound Pressure Level	dB (A)	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35	Cooling:48/44/41/40/38/36/33 Heating:50/47/43/41/40/36/35	
	Sound Power Level	dB (A)	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50	Cooling:64/59/56/55/53/51/48 Heating:64/62/58/56/55/51/50	
	Dimension (WXHXD)	mm	1078X325X246	1078X325X246	
	Dimension of Carton Box (LXWXH)	mm	1145X410X335	1145X410X335	
	Dimension of Package (LXWXH)	mm	1148X413X350	1148X413X350	
	Net Weight	kg	16.5	16	
	Gross Weight	kg	19.5	19.5	

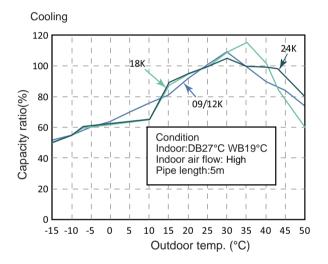
	Outdoor Unit Model		GWH24AFE-K6DNA2I/O(LCLH)
	Outdoor Unit Product Code		CB363W04101
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXFS-M180zX170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Twin Rotary
	Compressor LRA.	Α	35.00
	Compressor RLA	Α	3.50
	Compressor Power Input	W	1610
	Compressor Overload Protector		KSD115°C HPC 115/95U1
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839X38.1X616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
Outdoor	Fan Motor RLA	Α	0.65
Unit	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m³/h	3600
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ520
	Defrosting Method		Automatic Defrosting
	Climate Type		 T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side Permissible Excessive Operating Pressure for	IVII a	т.0
	the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	59/-/-
	Sound Power Level (H/M/L)	dB (A)	70/-/-
	Dimension(WXHXD)	mm	958X660X402
	Dimension of Carton Box (LXWXH)	mm	1029X453X715
	Dimension of Package(LXWXH)	mm	1032X456X737
	Net Weight	kg	41.5
	Gross Weight	kg	46
	Refrigerant		R32
	Refrigerant Charge	kg	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	inch	1/4
Connection		inch	5/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	l	

### 2.2 Capacity Variation Ratio According to Temperature

Heating operation ambient temperature range is -15°C~30°C

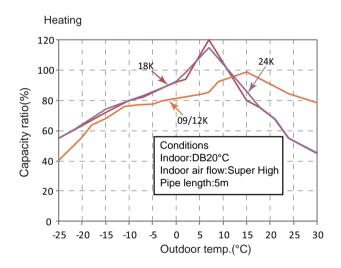


Heating operation ambient temperature range is -25°C~30°C

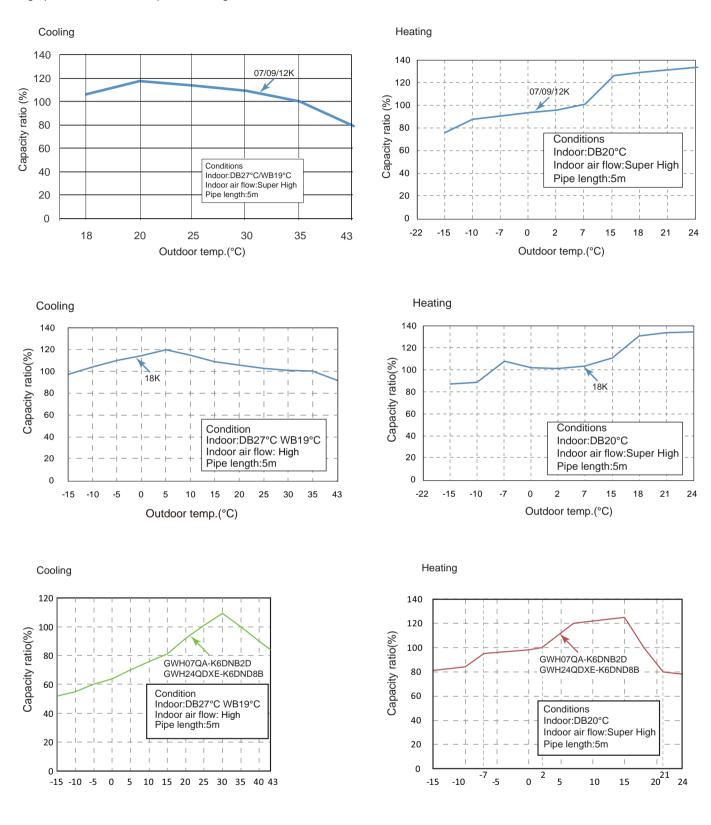


120 18K 24K 100 Capacity ratio (%) 80 9/12K 60 Conditions 40 Indoor:DB20°C Indoor air flow:Super High 20 Pipe length:5m 0 -15 -10 -5 10 15 20 30 0 5 25 Outdoor temp.(°C)

Heating



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



### Technical Information

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## 2.3 Cooling and Heating Data Sheet in Rated Frequency

### Cooling:

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

#### Heating:

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

### Instruction:

T1: Inlet and outlet pipe temperature of evaporator

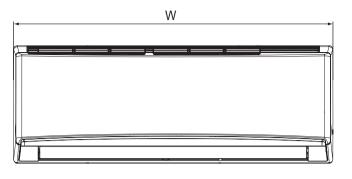
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

Connection pipe length: 5 m.

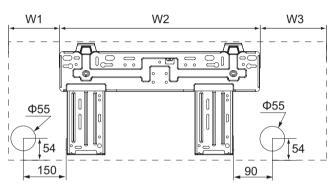
# 3. Outline Dimension Diagram

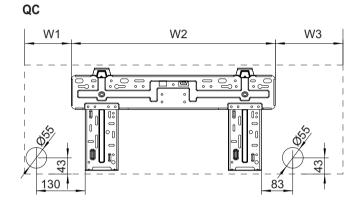
## 3.1 Indoor Unit

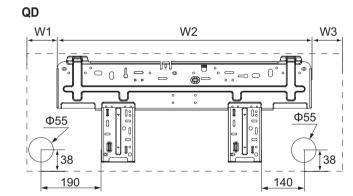


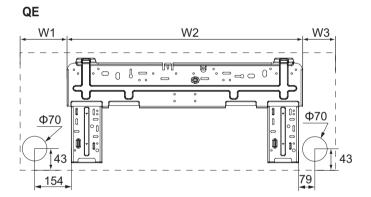


QA/QB





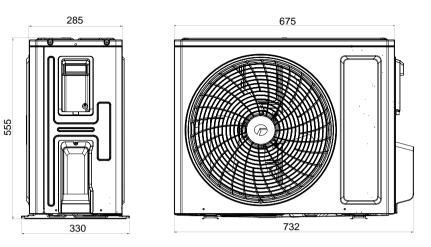


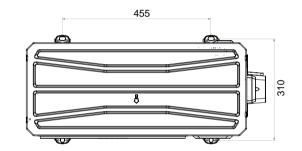


						Unit:mm
Model	W	Н	D	W1	W2	W3
QA	713	270	195	148	462	103
QB	790	275	200	168.5	462	159.5
QC	845	289	209	123	542	180
QD	970	300	224	104	685	181
QE	1078	325	246	206	685	187

### 3.2 Outdoor Unit

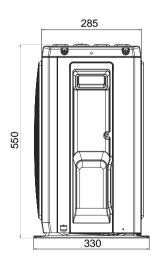
GWH09AFC-K6DNA2F/O GWH12AFC-K6DNA2F/O GWH18ALD-K6DNA1A/O GWH12ATBXB-K6DNA1D/O

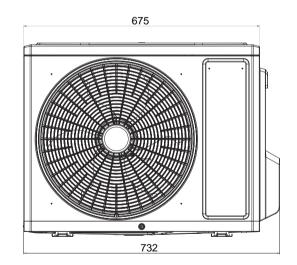


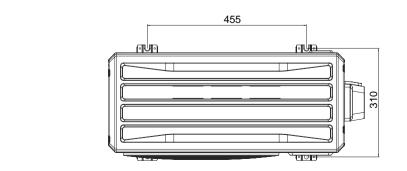


Unit:mm

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

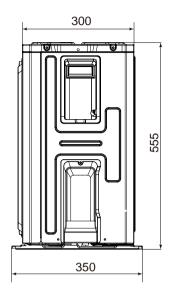


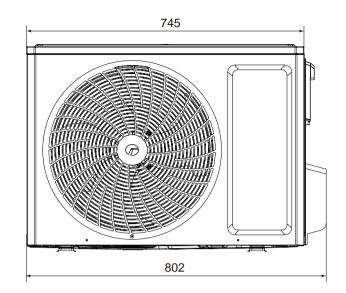


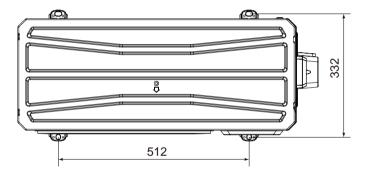




### GWH18AFD-K6DNA2I/O

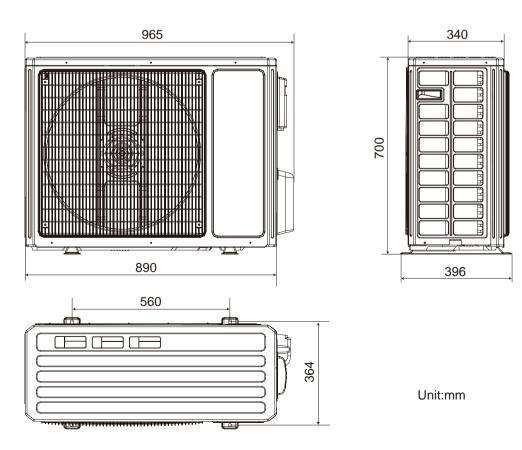


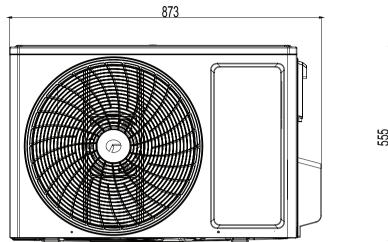


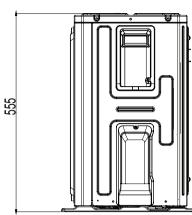


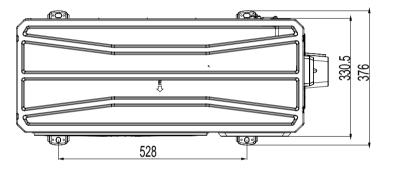
Unit:mm

GWH18QD-K6DNA1D/O GWH24QE-K6DNA1E/O



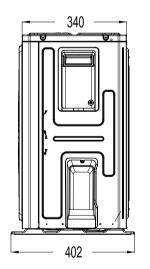


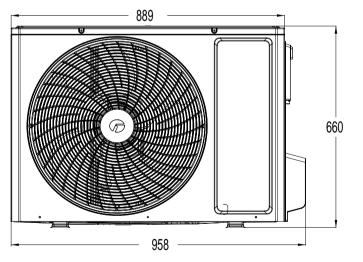


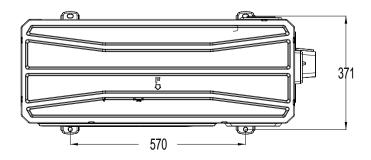


Unit:mm

GWH24AFE-K6DNA2I/O

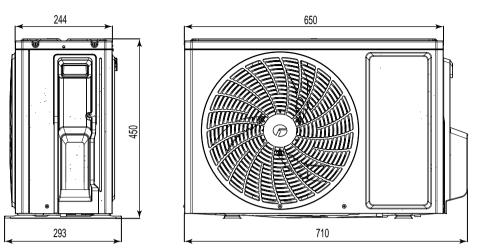


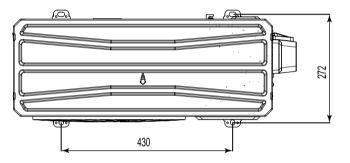




Unit:mm

### GWH07AGA-K6DNA1A/O

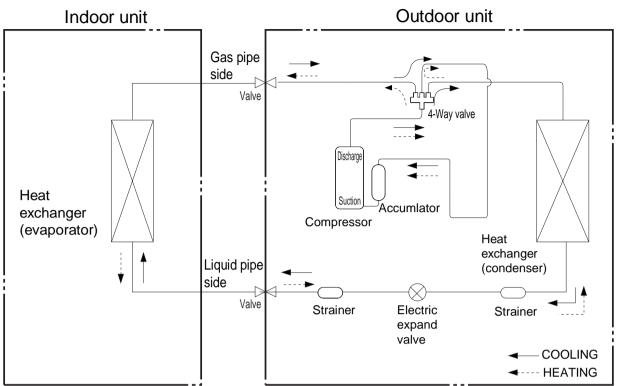




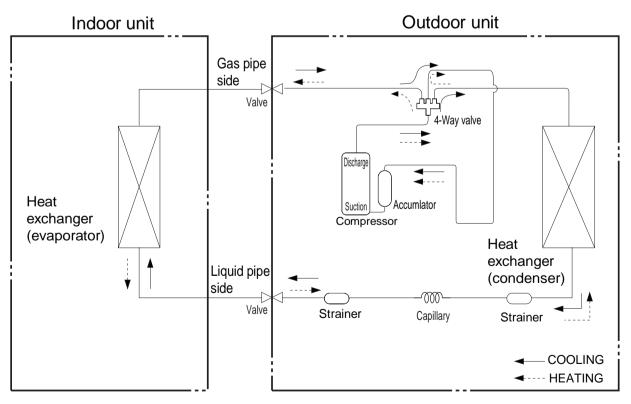
Unit:mm

# 4. Refrigerant System Diagram

GWH12AFC-K6DNA2F/O GWH18AFD-K6DNA2I/O GWH18QD-K6DNA1D/O GWH24QE-K6DNA1E/O GWH24AFE-K6DNA2I/O



GWH07QA-K6DNC4A/O GWH09AGA-K6DNA1A/O GWH09AFC-K6DNA2F/O GWH12AGB-K6DNA1A/O GWH24ALD-K6DNA1B/O GWH18ALD-K6DNA1A/O GWH07AGA-K6DNA1A/O GWH09AGB-K6DNA1B/O GWH12ATBXB-K6DNA1D/O



Connection pipe specification: Liquid pipe:1/4" Gas pipe:3/8" (QA/QB/QC/GWH18ALD-K6DNA1A/O) Gas pipe:1/2" (QD) Gas pipe:5/8" (QE)

## 5. Electrical Part

### 5.1 Wiring Diagram

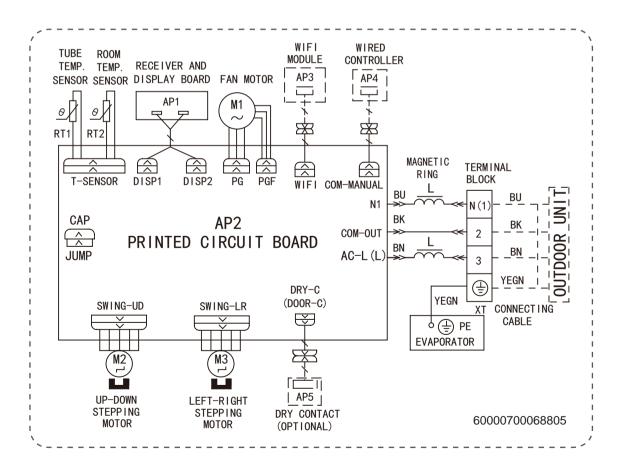
### Instruction

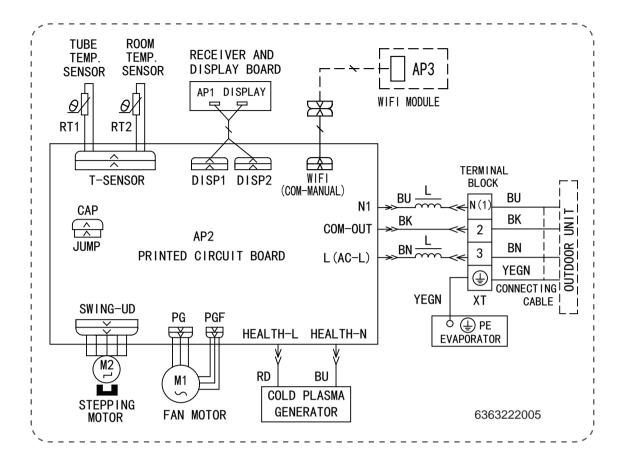
				_		
Symbol	Symbol Color	Symbol	Symbol Color		Symbol	Name
WH	White	GN	Green	_	CAP	Jumper cap
YE	Yellow	BN	Brown		COMP	Compressor
RD	Red	BU	Blue		Ē	Grounding wire
YEGN	Yellow/Green	ВК	Black		/	/
VT	Violet	OG	Orange		/	/
				_		

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

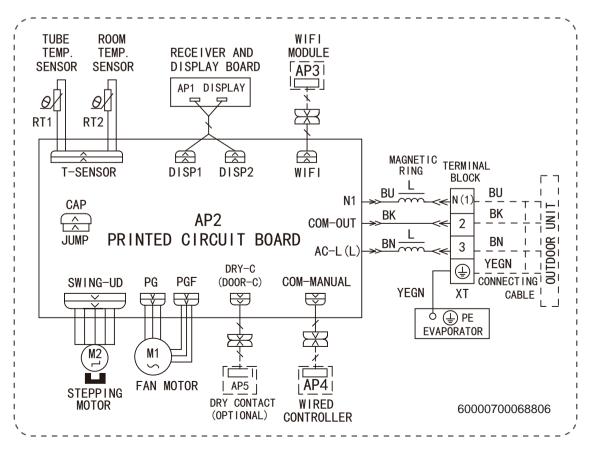
### • Indoor Unit

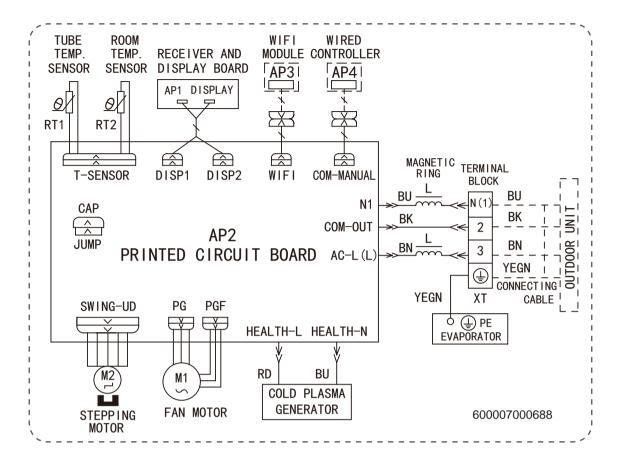
GWH09QC-K6DNB2F/I GWH12QC-K6DNB2F/I



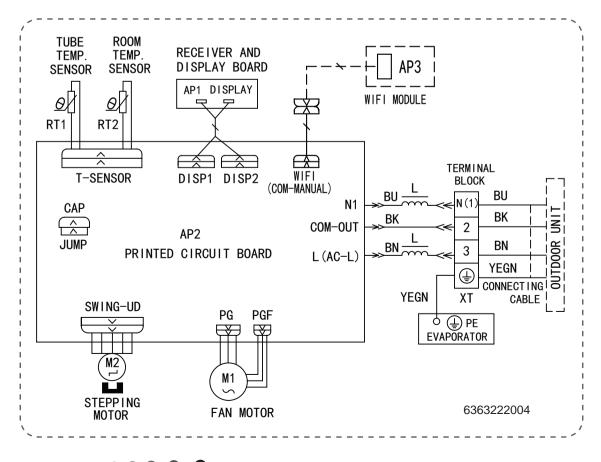


GWH09QA-K6DNB2A/I(CB432N25401) GWH12QB-K6DNB2A/I GWH18QD-K6DNB2E/I GWH07QA-K6DNB2D/I GWH07QAXA-K6DND8D/I GWH12QB-K6DND8A/I GWH09QB-K6DND8F/I





GWH09QA-K6DNB8A/I GWH09QA-K6DNC4A/I GWH12QB-K6DNB8A/I GWH12QB-K6DNC4A/I GWH09QA-K6DNC2A/I GWH12QB-K6DNC2A/I GWH12QB-K6DNC4A/I GWH12QBXB-K6DNC8D/I

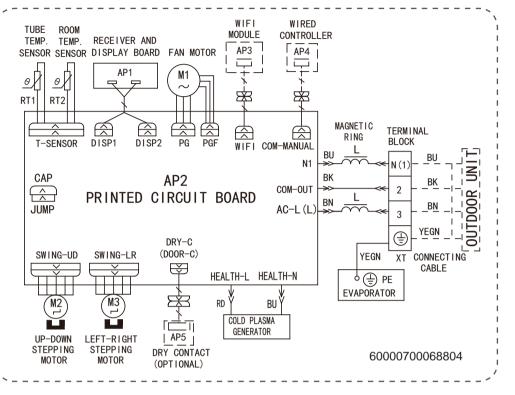


GWH09QC-K6DNB4F/I GWH09QC-K6DND6F/I GWH12QC-K6DNA2F/I

GWH12QC-K6DNB6F/I

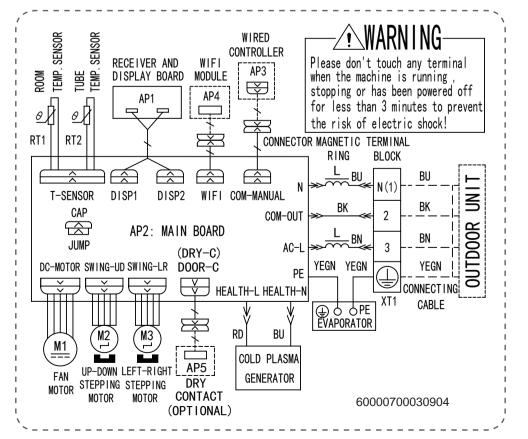
GWH12QC-K6DNC6F/I

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

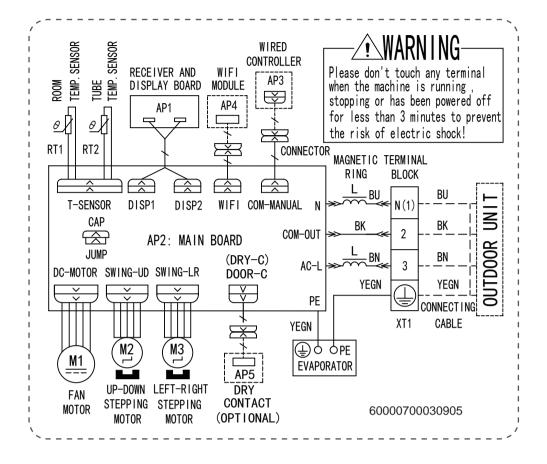


GWH18QD-K6DNA5I/I GWH18QD-K6DNC4I/I GWH18QD-K6DND2I/I GWH24QE-K6DNA5I/I GWH18QD-K6DNB8I/I GWH18QD-K6DNB2I/I GWH18QD-K6DNB4I/I GWH18QD-K6DND6I/I GWH18QD-K6DNB6I/I GWH18QD-K6DNC6I/I GWH18QD-K6DNA2I/I GWH24QE-K6DNB8I/I GWH24QE-K6DNB2I/I GWH24QE-K6DNB2I/I GWH24QE-K6DNA2I/I GWH24QE-K6DNC6I/I GWH24QE-K6DNB6I/I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

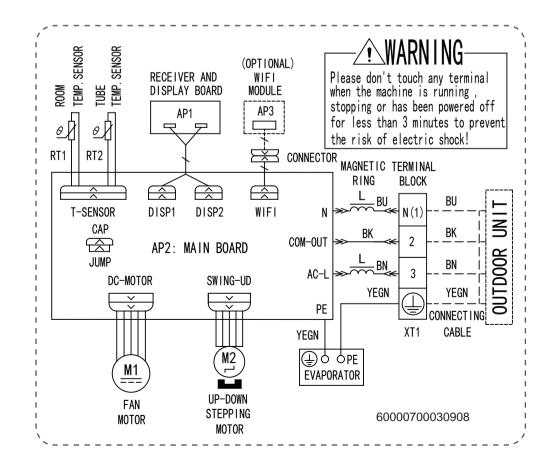
GWH24QE-K6DND2K/I



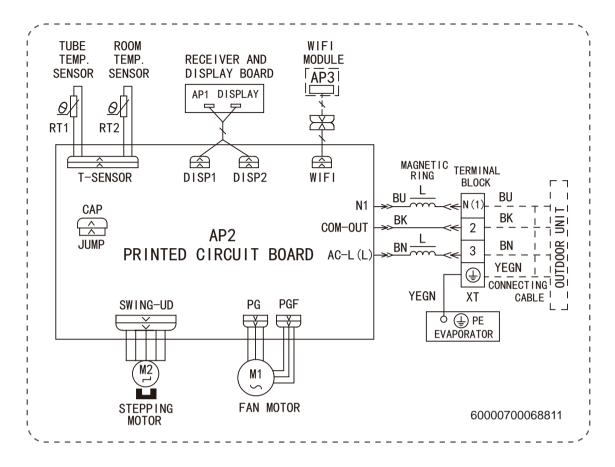
#### GWH18QD-K6DNB2I/I GWH24QE-K6DNB2I/I



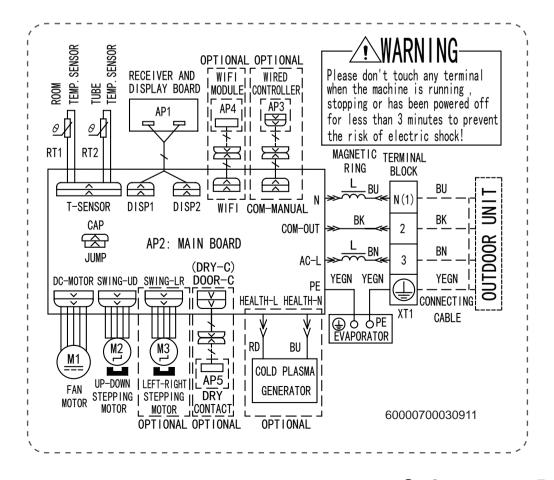
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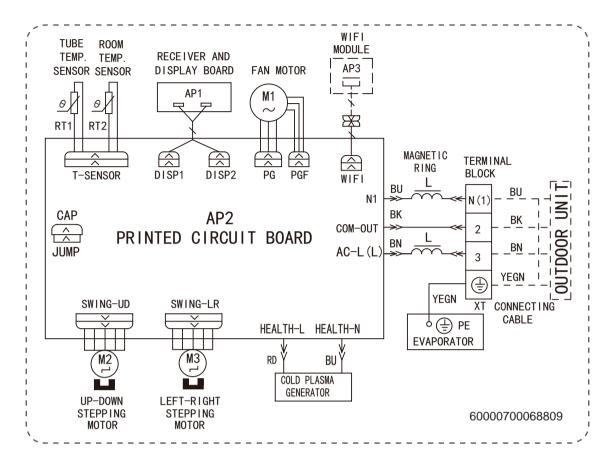
### GWH18QD-K6DNC4A/I GWH18QD-K6DNC2A/I



GWH24QD-K6DNB2B/I GWH24QDXE-K6DND8B/I

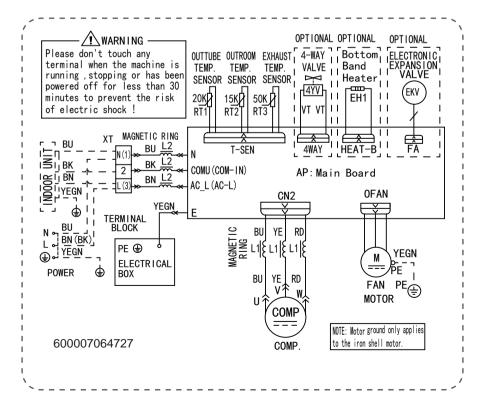


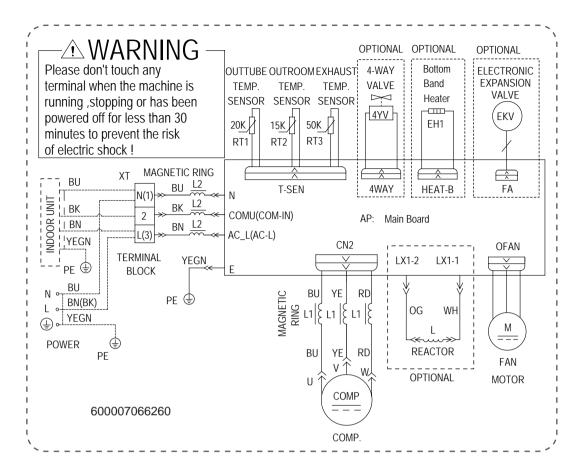
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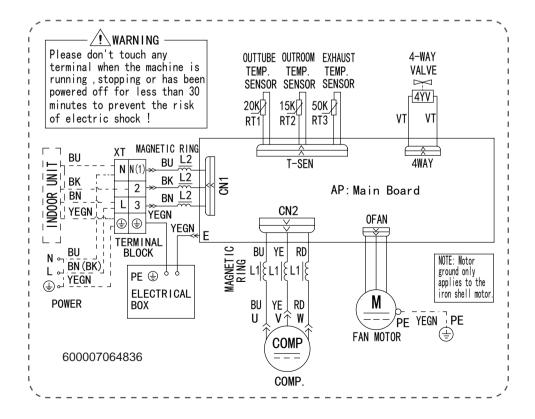
### Outdoor Unit

GWH09AFC-K6DNA2F/O GWH12AFC-K6DNA2F/O

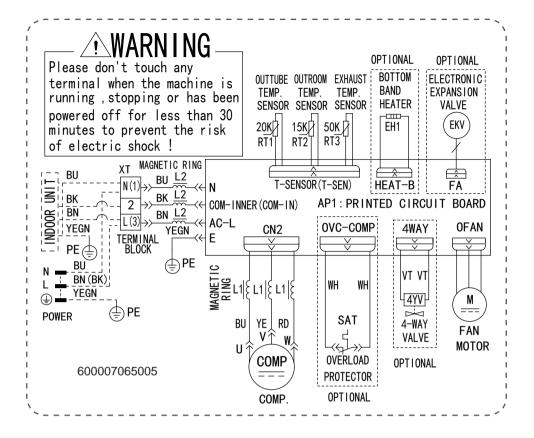




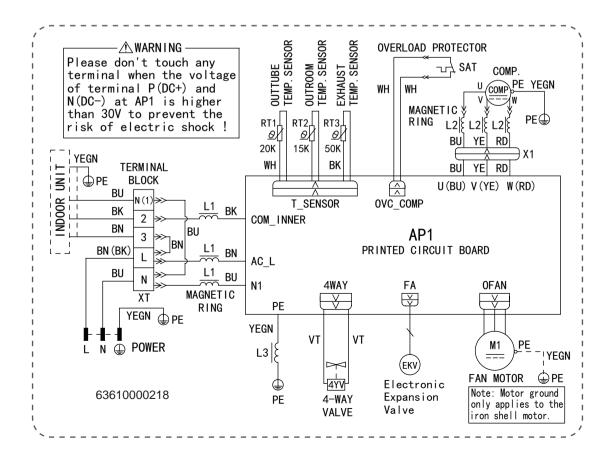
GWH07QA-K6DNC4A/O GWH09AGA-K6DNA1A/O GWH12AGB-K6DNA1A/O GWH09AGB-K6DNA1B/O

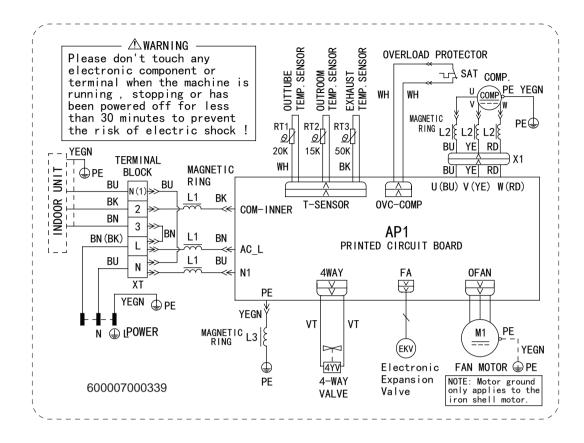


### GWH18AFD-K6DNA2I/O GWH24ALD-K6DNA1B/O GWH24AFE-K6DNA2I/O GWH18ALD-K6DNA1A/O

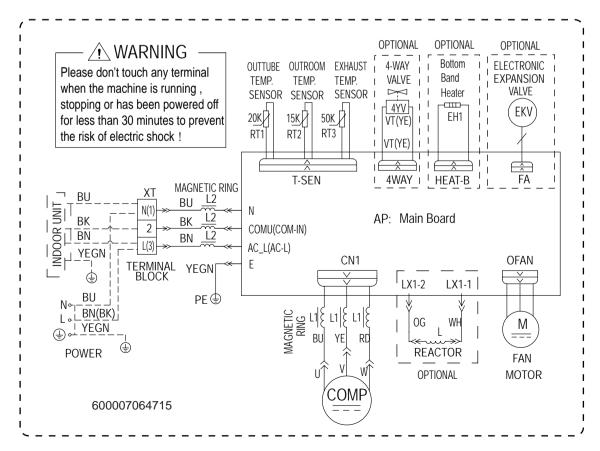


#### GWH18QD-K6DNA1D/O





GWH07AGA-K6DNA1A/O



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

**Technical Information** 

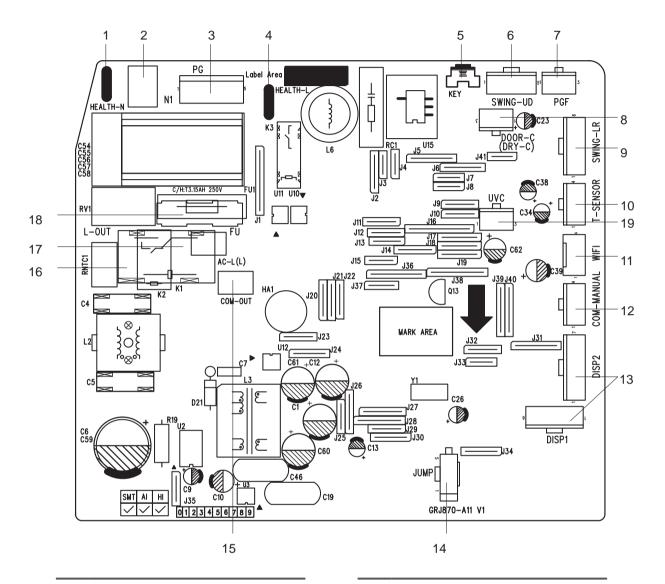
66

### 5.2 PCB Printed Diagram

### Indoor Unit

07K/09K/12K

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

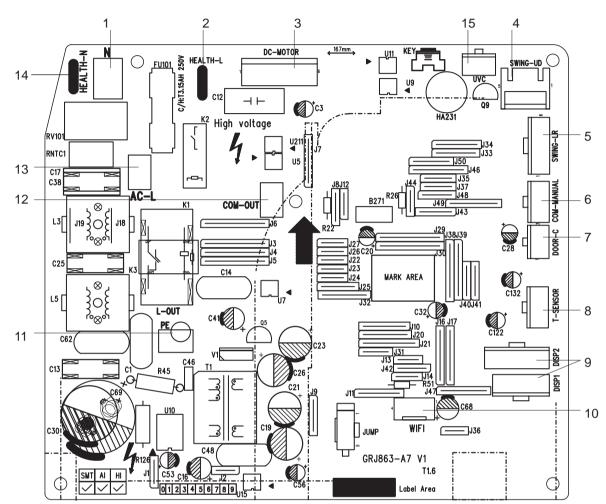


No.	Name
1	Interface of health function neutral wire
2	Neutral wire terminal
3	Motor terminal
4	Interface of health function live wire
5	Auto button
6	Up&down swing terminal
7	Interface of Motor feedback
8	Interface of gate-control
9	Left&right swing terminal
10	Terminal of temperature sensor

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

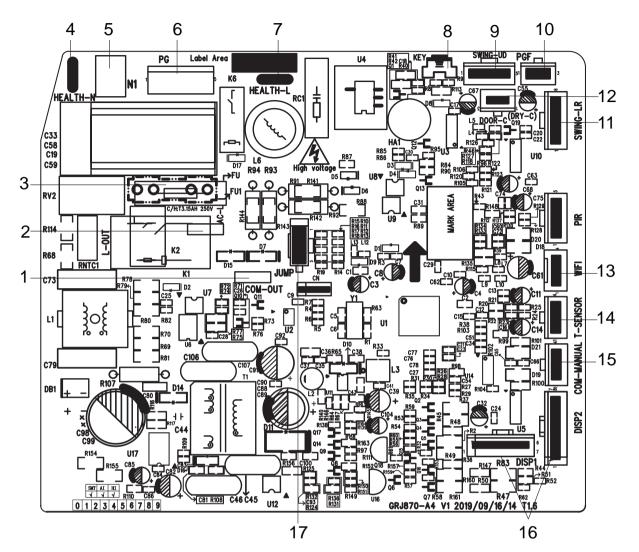
GWH24QDXE-K6DND8B/I

GWH18QD-K6DNA5I/I GWH18QD-K6DNB2I/I GWH18QD-K6DNC4I/I GWH24QE-K6DNB2I/I GWH24QD-K6DNC4B/I GWH18QD-K6DND2I/I GWH24QE-K6DNA5I/I GWH24QE-K6DND2K/I GWH24QD-K6DNB2B/I GWH18QD-K6DNB8I/I GWH18QD-K6DNB2I/I GWH18QD-K6DNB2I/I GWH18QD-K6DND6I/I GWH18QD-K6DNB6I/I GWH18QD-K6DNC6I/I GWH18QD-K6DNA2I/I GWH24QD-K6DNC2B/I GWH24QE-K6DNB8I/I GWH24QE-K6DNB2I/I GWH24QE-K6DNB2I/I GWH24QE-K6DNA2I/I GWH24QE-K6DNC6I/I GWH24QE-K6DNB6I/I GWH24QE-K6DNB6I/I GWH24QE-K6DNB6K/I



No.	Name
1	Neutral wire
2	Interface of health function live wire
3	DC fan interface
4	Up&down swing interface
5	Left&right swing interface
6	Interface of wired controller
7	Interface of gate control
8	Interface of temperature sensor

No.	Name
9	Display interface
10	WIFI interface
11	Grounding wire
12	Terminal with outdoor unit communication wire
13	Live wire interface
14	Interface of health function neutral wire
15	Interface of ultraviolet clean



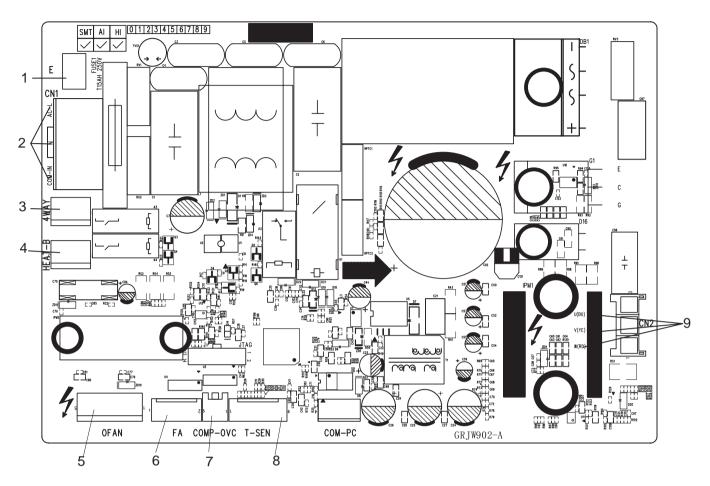
No.	Name
1	Interface of communication wire for indoor unit and outdoor unit
2	Interface of live wire
3	Fuse
4	Interface of health function neutral wire(Applicable for some models)
5	Interface of neutral wire
6	Interface of fan
7	Interface of health function live wire
8	Auto button
9	Up&down swing interface

No.	Name
10	Interface of PG feedback
11	Left&right swing interface
12	Interface of dry contact(only for the model with this function)
13	Interface of wifi
14	Needle stand for tube temperature sensor
15	Relay used for controlling wire
	Display board
	Jumper cap

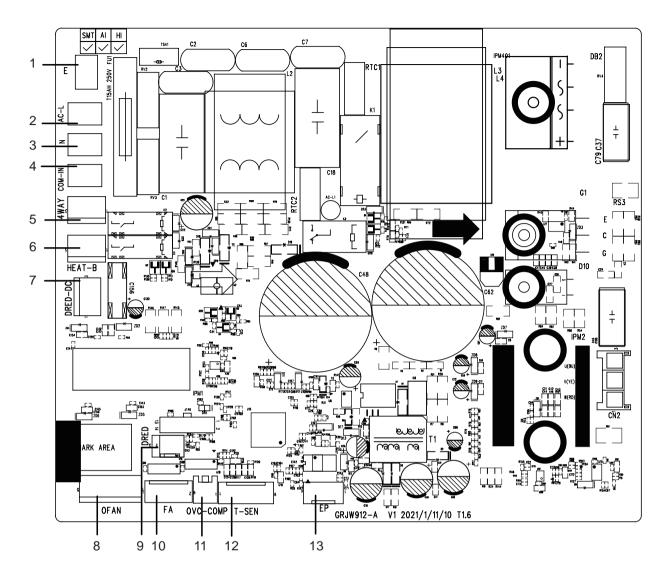
# **Outdoor Unit**

#### 09K/12K

GWH07QA-K6DNC4A GWH18ALD-K6DNA1A/O



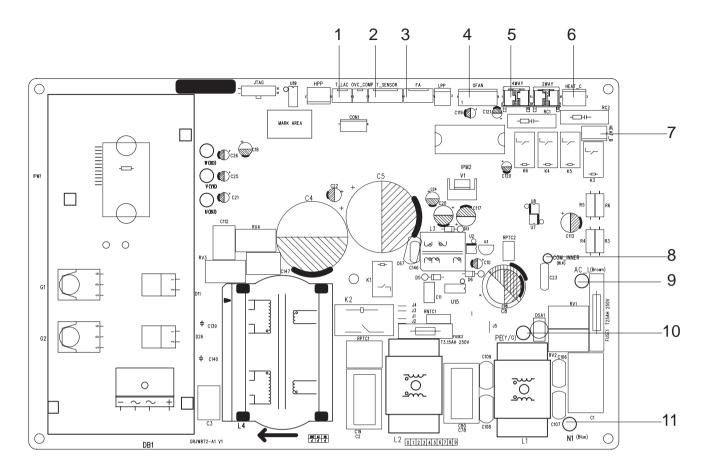
No.	Name
1	Earthing wire
2	Neutral wire, live wire and communication cable
3	4-way valve
4	Electric heating belt of chasssis
5	Outdoor fan
6	Electronic expansion valve
7	Overload
8	Temperature sensor
9	Three-phase terminal of compressor



No.	Name
1	Earthing wire
2	Live wire
3	Neutral wire
4	Communication wire
5	4-way valve
6	Electric heating of chasssis
7	DRED-DC(Reserved)

No.	Name
8	Outdoor fan
9	DRED(Reserved)
10	Electronic expansion valve
11	Compressor Overload
12	Temperature sensor
13	Compressor

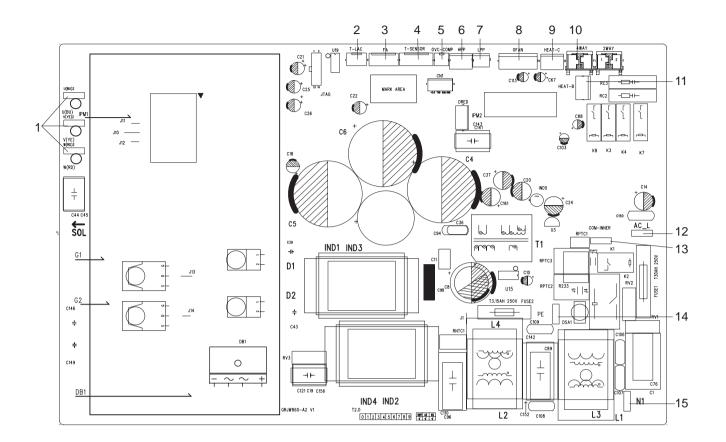
#### GWH18AFD-K6DNA2I/O



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

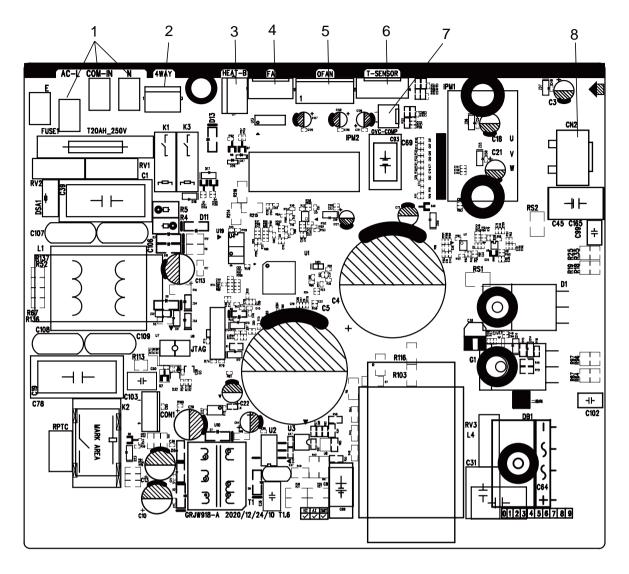
No.	Name
7	Terminal of chassis electric heating
8	Terminal of indoor unit and outdoor unit communication
9	Power supply live wire
10	Earthing wire
11	Power supply neutral wire

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

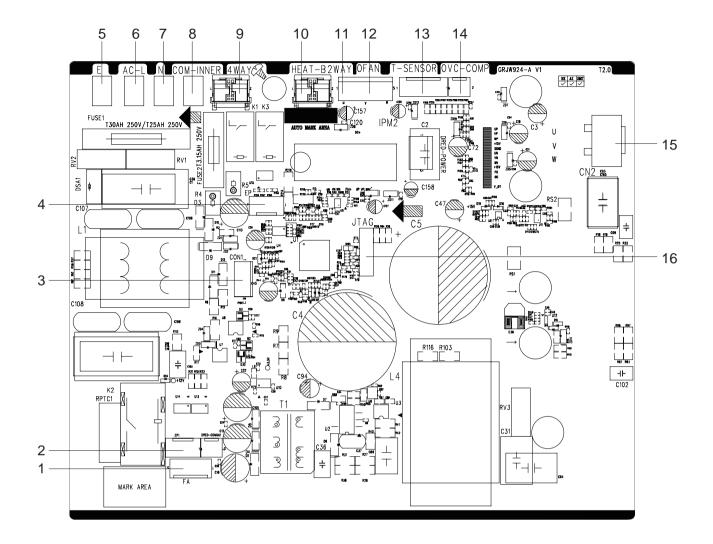


No.	Name
1	Compressor three phase input interface
2	Terminal of low ambient temperature cooling temperature sensor
3	Terminal of electronic expansion valve
4	Terminal of outdoor temperature sensor
5	Terminal of compressor overload protection
6	Terminal of high pressure protection
7	Terminal of low pressure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

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

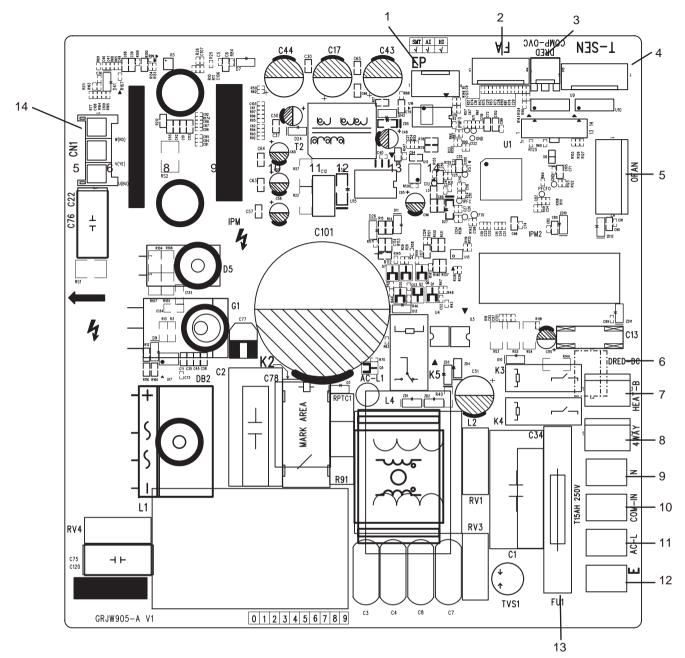


	No.	Name
	1	Neutral wire, live wire and communication cable
	2	4-way valve
-	3	electric heating belt of chasssis
	4	Electronic expansion valve
-	5	Outdoor fan
	6	Temperature sensor
	7	Overload
-	8	Three-phase terminal of compressor



No.	Name
1	Terminal of electronic expansion valve
2	E disk(Reserved)
3	Computer monitoring interface
4	EE flash drive
5	Grounding wire
6	Live wire
7	Neutral wire
8	Communication wire

No.	Name
9	4-way valve
10	Electric heating belt of chassis
11	2-way valve
12	DC motor
13	Temperature sensor
14	Overload interface of compressor
15	Terminal of compressor
16	Interface of program debugs



No.	Name
1	E store
2	Electronic expansion valve
3	Overload
4	Temperature sensor
5	Outdoor fan
6	DRED(preliminary)
7	Electric heating belt of chasssis

No.	Name
8	4-way valve
9	Neutral wire
10	communication cable
11	Live wire
12	Earthing wire
13	Fuse
14	Three-phase terminal of compressor

# 6. Function and Control

# 6.1 Remote Controller Introduction

# YAC1FB9(WiFi)

# Buttons on remote controller



#### NOTE:

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

• After putting through the power, the air conditioner will give out a sound. Po wer indicator " () " is ON. After that, you can operate the air conditioner by using remote controller.

• 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.

• This remote controller can adjust the temperature under auto mode. When matching with the unit which is without the function of adjustable temperature under auto mode, the set temperature under auto mode may be invalid, or the displayed set temperature on the unit is not same as that on the remote controller under auto mode.

# Introduction for icons on display screen

<b>*</b>		I feel			
FAN		Set fan speed			
\$		Turbo mode			
	<b></b>	Send signal			
le	$\bigtriangleup$	Auto mode			
<b>Dperation mode</b>	*	Cool mode			
tion	66	Dry mode			
erai	\$	Fan mode			
g	\$	Heat mode			
C		Sleep mode			
	\$	8°C heating function			
Â		Health mode			
		Scavenging function			
କ କ		Quiet			
&		X-FAN function			
	•	🗋 Set temp.			
-11-1	급: Temp. splay type	lndoor ambient temp.			
ais	splay type	പ്പ Outdoor ambient temp.			
	Θ	Clock			
	88	Set temperature			
WIFI		WiFi function			
88:88		Set time			
ONOFF		TIMER ON / TIMER OFF			
<u>₹</u> Q.		Light			
		Left & right swing			
刹		Up & down swing			
		Child lock			

#### (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.

$$\overset{\text{AUTO}}{\longrightarrow} \overset{\text{COOL}}{\longrightarrow} \overset{\text{DRY}}{\bigstar} \overset{\text{FAN}}{\longrightarrow} \overset{\text{HEAT}}{\bigstar} \overset{\text{HEAT}}{\longrightarrow} \overset{\text{HEAT}}{\checkmark} \overset{\text{HEAT}}{\longrightarrow} \overset$$

• When selecting auto mode, air conditioner will operate automatically according to the sensed temperature. Press "FAN" button can adjust fan speed. Press " 刹 " / " 示 " button can adjust fan

blowing angle.

• After selecting cool mode, air conditioner will operate under cool mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " 刹 " / " 示 " 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 " 刹 " / " 示 " 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 " 剩 " / " ☴ " button to adjust fan blowing angle.

When selecting heat mode, the air conditioner operates under

hea t mode. Press "▲" o r "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " 刹 " / " 示 " button to adjust fan blowing angle.

#### NOTE:

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

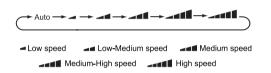
• Set temperature range from remote controller: 16~30°C(61-86°F).

• Fan speed: auto, low speed, low-medium speed, medium-high speed, high speed.

• Under auto mo de, temperature can be d isplayed; Under auto mode, set temperature can be adjusted.

#### FAN button

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



#### NOTE:

• 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. Af ter energization, X-FAN OFF is defaulted. X-FAN is not available in auto, fan or heat mode. This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.

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

• Having set X-FAN function off: After turning off the unit by pressing " () " button, the complete unit will be off directly.



Under cool or heat mode, press this button to turn to quick cool or quick heat mode. " (5) " icon is displayed on remote controller. Press this button again to exit t urbo function and " (5) " 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.

#### Justice

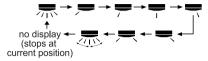
Press "▲" or "▼" button once increase or decrease set temperature 1°C(°F). Holding "▲" or "▼" button, 2s later, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly.

When setting TIMER ON, TIMER OFF or CLOCK, press "▲" or

"▼" button to adjust time. (Refer to CLOCK, TIMER ON, TIMER 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.

• The function is only available for some models.

#### 🔋 button

st

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

$$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$$

• When selecting " <a>I ", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.</a>

• When selecting " `I、 I、 I、 I、 I、, air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.

• When selecting " <sup>△</sup>I、 →I、 →I ", air conditioner is blowing fan at fixed angle. Horizontal louver will send air at the fixed angle.

• Hold " <sup>⇒</sup>I " button above 2s to set your required swing angle. When reaching your required angle, release the button.

#### NOTE:

• "  $\geq I \geq I \geq I$  may not be available. When air condi - tioner receives this signal, the air conditioner will blow fan automatically.

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

• Under up and down swing mode, when the status is switched from off to , if press this button again 2s later, status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circu lation sequence stated above.

#### SLEEP button

• Press this button, can select Sleep 1 ( $\$ ), Sleep 2 ( $\$ ), Sleep 3 ( $\$ ) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted. Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1, two hours, setting temperature; 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 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 "▲" a nd " ▼" button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation;

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

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

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

#### IFEEL button

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

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

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

## TIMER ON / TIMER OFF button

#### TIMER ON button

"TIMER ON" button can set the time for timer on. After pressing this button, " ④ " icon disappears and the word "ON" on remote controller blinks. Press "▲" or "▼" button to adjust TIMER ON setting. After each pressing "▲" or "▼" button. TIMER ON setting will increase or decrease 1min. Holding "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time. Press "TIMER ON" to confirm it. The word "ON" will stop blinking. " ⊕ " icon resumes displaying. Cancel TIMER ON: Under the condition that TIMER ON is started up, press "TIMER ON" button to cancel it.

• TIMER OFF button

"TIMER OFF" button can set the time for timer off. After pressing this button, " ③" icon disappears and the word "OFF" on remote controller blinks. Press "▲" or "▼" button to adjust TIMER OFF setting. After each pressing "▲" or "▼" button, TIMER OFF setting will increase or decrease 1min. Holding "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time. Press "TIMER OFF" and the word "OFF" will stop blinking. " ③ " icon resumes displaying. Under the condition that TIMER OFF is started up, press "TIMER OFF" button to cancel it.

#### NOTE:

• Under on and off status, you can set TIMER OFF or TIMER ON simultaneously.

• Before setting TIMER ON or TIMER OFF, please adjust the clock time.

• When turning on TIMER ON or TIMER OFF function, set this function valid all the time and the air conditioner will be turned on or turned off at set temperature every day. " () " button has no affect to setting. If this function is not required, use the remote controller to cancel it.

#### CLOCK button

Press this button to set clock time. " (9 " icon on remote controller

will blink. Press "▲" or "▼" button within 5s to set clock time. Each pressing of "▲" or "▼" button, clock time will increase or decrease 1 minute. If hold "▲" or "▼" button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. " ④ " 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.

#### 

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

#### NOTE:

• The quiet function is only available for some models.

• The Quiet function can be set up in all modes; Under the Quiet mode, the fan speed is not available.

When quiet function is selected.

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

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

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

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

#### WiFi button

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

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

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

• This function is only available for some models.

#### LIGHT button

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

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

#### 🔎 🖈

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

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

#### NOTE:

• This function is only available for some models.

#### TEMP button

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



• When selecting " 🗋 " or no display with remote controller, temperature indicator on indoor unit displays set temperature.

• When selecting " (a) " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.

• When selecting " : with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

• Outdoor temperature display is not available for some models. At that time, indoor unit receives " ப்: " signal, while it displays indoor set temperature.

• It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.

• Only for the models whose indoor unit has dual-8 display.

• When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

#### Function introduction for combination buttons

#### **Energy-saving function**

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

#### NOTE:

• Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.

• Under energy-saving function, set temperature can't be adjusted. Press "TURBO" button and the remote controller won't send signal.

• Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press sleep button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

#### 8°C heating function

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

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

#### 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 internal clean function. When the internal clean function is turned on, indoor unit displays "CL".

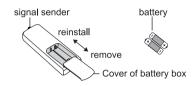
During the self-cleaning process of evaporator, the unit will perform fast cooling or fast heating. There may be some noise, which is the sound of flowing liquid or thermal expansion or cold shrinkage. The air conditioner may blow cool or warm air, which is a normal phenomenon. During cleaning, please make sure the room is well ventilated to avoid affecting the degree of comfort.

#### Replacement of batteries in remote controller

1.Press the back side of remote controller marked with """, as shown in the fig, and then push out the cover of battery box along the arrow direction.

2.Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" 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.

## YAN1F6(WiFi)

#### Buttons on remote controller



#### Introduction for icons on display screen

		I feel		
		Set fan speed		
\$		Turbo mode		
	<u> </u>	Send signal		
Operation mode	0	Auto mode		
	*	Cool mode		
ion	646	Dry mode		
erat	\$	Fan mode		
do	\$	Heat mode		
	¢	Sleep mode		
\$		8°C heating function		
条		Health mode		
	俞	Scavenging function		
£1 &		X-FAN function		
	•	Set temp.		
-11-	Temp. splay type	û Indoor ambient temp.		
display type		ப் Outdoor ambient temp.		
	Θ	Clock		
	88	Set temperature		
WIFI		WiFi function		
88:88		Set time		
ONOFF		TIMER ON / TIMER OFF		
₹Ç.		Light		
刹		Up & down swing		
		Child lock		

#### Introduction for buttons on remote controller

#### Notice:

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

• After putting through the power, the air conditioner will give out a sound. Power indicator " 🕁 " is ON. After that, you can operate the air conditioner by using remote controller.

• Under off status, set temperature and clock icon will be displayed on the display of remote controller (If timer on, timer off and light functions are set, the corresponding icons will be displayed on the display of remote controller at the same time); Under on status, the display will show the corresponding set function icons.

#### り 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.

AUTO	COOLD	RY	FAN	HEAT
$\rightarrow \bigcirc -$	→ ¥ →	• • • • -	→ઙ્ક –	→☆ —
(				,

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

• After selecting cool mode, air conditioner will operate under cool mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press "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.

#### Notice:

• 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).

 $\bullet$  Set temperature range from remote controller: 16~30°C(61-86°F); Fan speed: auto, low speed, medium speed, high speed.

• Cooling only unit won't receive heat mode signal. If setting heat mode with remote controller, press " () " button can't start up the unit.



Pressing this button can set fan speed circularlyas: auto(AUTO),  $low(\ )$ ,  $medium(\ )$ ,  $high(\ )$ .



#### Notice:

• Under AUTO speed, air conditioner will select proper fan speed automatically according to factory default setting.

• It's low fan speed under dry mode.

• X-FAN function: Holding fan speed button for 2s in cool or dry mode, the icon " \* " is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in auto, fan or heat mode.

This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.

• Having set X-FAN function on: After turning off the unit by pressing " () " button, indoor fan will continue running for a few minutes at low speed. In this period, hold fan speed button for 2s to stop indoor fan directly.

• Having set X-FAN function off: After turning off the unit by pressing " () " button, the complete unit will be off directly.

SWING button

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

$$\begin{array}{c} & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$$

• When selecting " ` $\$ ,  $\$ , -, ,, ,, ", air condition-er is blowing fan at fixed position. Horizontal louver will stop at the fixed position.

• When selecting " ≤Ⅰ, , , , , air conditioner is blowing fan at fixed angle. Horizontal louver will send air at the fixed angle.

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

#### Notice:

• "  $\ge$  ],  $\ge$  ],  $\ge$  ] " may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.

TURBO button

Under cool or heat mode, press this button to turnto quick cool or quick heat mode. " (5) " icon isdisplayed on remote controller. Press this button again to exit turbo function and " (5) " icon will disappear.



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

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

SLEEP button

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

TEMP button

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



• When selecting " 🗋 " or no display with remote controller, temperature indicator on indoor unit displays set temperature.

• When selecting " (1) " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.

• When selecting " 🗘 " with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

#### Notice:

• Outdoor temperature display is not available for some models. At that time, indoor unit receives " ப் " signal, while it displays indoor set temperature.

• It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.

• Only for the models whose indoor unit has dual-8 display.

• When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

#### WiFi button

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

Notice:

•This function is only available for some models.



Press this button to turn off display light on indoor unit. "  $d^{2}$  " icon on remote controller disappears.

Press this button again to turn on display light. "  $_{2}\dot{\bigtriangledown}_{-}$  " icon is displayed.



Press this button to set clock time. "  $\bigcirc$  " icon on remote controller will blink. Press " $\blacktriangle$ " or " $\blacktriangledown$ " button within 5s to set clock time. Each pressing of " $\blacktriangle$ " or " $\blacktriangledown$ " button, clock time will increase or decrease 1 min. If hold " $\bigstar$ " or " $\blacktriangledown$ " 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.

#### Notice:

• 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.

#### 

#### TIMER ON button

"TIMER ON" button can set the time for timer on. After pressing this button, " ⊕ " icon disappears and the word "ON" on remote controller blinks. Press "▲" or "▼" button to adjust TIMER ON setting. After each pressing "▲" or "▼" button. TIMER ON setting will increase or decrease 1min. Holding "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time.

Press "TIMER ON" to confirm it. The word "ON" will stop blinking. " () " icon resumes displaying. Cancel TIMER ON: Under the condition that TIMER ON is started up, press "TIMER ON" button to cancel it.

#### • TIMER OFF button

"TIMER OFF" button can set the time for timer off. After pressing this button, " ⊕ " icon disappears and the word "OFF" on remote controller blinks. Press "▲" or "▼" button to adjust TIMER OFF setting. After each pressing "▲" or "▼" button, TIMER OFF setting will increase or decrease 1min. Holding "▲" or "▼" button, 2s later, the time will change quickly until reaching your required time.

Press "TIMER OFF" and the word "OFF" will stop blinking. " () "

icon resumes displaying. Under the condition that TIMER OFF is started up, press "TIMER OFF" button to cancel it.

#### Notice:

• Under on and off status, you can set TIMER OFF or TIMER ON simultaneously.

• Before setting TIMER ON or TIMER OFF, please adjust the clock time.

• After starting up TIMER ON or TIMER OFF, set the constant circulating valid. After that, air conditioner will be turned on or turned off according to setting time. " () " button has no effect on setting. If you don't need this function, please use remote controller to cancel it.

#### 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.

#### Notice:

• 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.

#### Notice:

• 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 " $\blacktriangle$ " and " $\forall$ " simultaneously to turn on or turn off child lock function. When child lock func-tion is on, " $\blacksquare$ " icon is displayed on remote controller. If you operate the remote controller, the " $\blacksquare$ " icon will blink three times without sending signal to the unit.

#### Temperature display switchover function

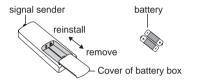
Under OFF status, press "▼" and "MODE" buttons simultaneously to switch temperature display between °C and °F.

#### I FEEL Function

Press "**A**" and "MODE" buttons simultaneously 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 two buttons simultaneously again to close I FEEL function and " ... " will disappear.

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

#### Replacement of batteries in remote controller



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.

#### 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.

## YAP1F2(WiFi)

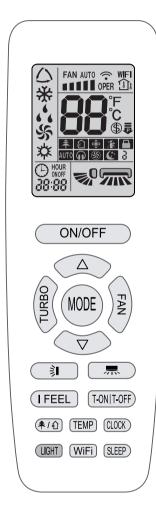
#### NOTE:

• This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.

• After putting through the power, the air conditioner will give out a sound. Power indicator "  $\oplus$  " is ON (red indicator, the colour is different for different models). After that, you can operate the air conditioner by using remote controller.

• Under on status, pressing the button on the remote controller, the signal icon " 🗇 " on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.

#### Buttons on remote controller



#### ON/OFF

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.

AUTO COOL DRY FAN HEAT ▹△→☀→५→₷→☆

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

can adjust fan speed. Press "  $\mathbb{R}$  " / "  $\mathbb{R}$  " button can adjust fan blowing angle.

After selecting cool mode, air conditioner will operate under cool mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " 示 " / " ३ " 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 " ☴ " / " 泳 " button to adjust fan blowing angle.

• When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. All indicators are OFF. Press "FAN" button to adjust fan speed. Press " ☴ " / " ३ " button to adjust fan blowing angle.

• When selecting heating mode, the air conditioner operates under heat mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " 示 " / " 泳 " button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/ OFF button can't start up the unit).

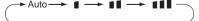
#### NOTE:

• For preventing cold air, after starting up heating mode, indoor unit will delay 1~5 minutes to blow air (actual delay time is depend on indoor ambient temperature).

• Set temperature range from remote controller: 16~30°C (61~86°F); Fan speed: auto, low speed, medium speed, high speed.

• This indicator is not available for some models.

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



#### NOTE:

Under AUTO speed, air conditioner will select proper fan speed automatically according to ex-factory setting.
It's Low fan speed under Dry mode.

• X-FAN function Hold fan speed button for 2s in COOL or DRY

mode, the icon "  $\otimes$  " 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

Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. " (6) " icon is displayed on remote controller. Press this button again to exit turbo function and " (6) " 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 approachs the preset temperature as soon as possible.

## 

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

#### 易

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



#### NOTE:

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

• Under swing left and right mode, when the status is switched from off to minimum , if press this button again 2s later, minimum status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

This function only applicable for some models.

#### \_ <u></u> ] \_ \_ \_

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

$$(\text{horizontal louvers stops}) \xrightarrow{\bullet} 0 \xrightarrow{\bullet}$$

• When selecting " **©** ", air conditioner is blowing fan automatically. Horizontal louver will automat-ically swing up & down at maximum angle.

• When selecting " \_ 0 , \_ 0 , \_ 0 , \_ 0 , o ", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.

• When selecting " ₅ o , ₅ o ", air conditioner is blowing fan at fixed angle.

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

#### NOTE:

• " = 0, = 0, = 0 " may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.

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

• Under swing up and down mode, when the status is switched from off to  $\mathbf{v}_0$ , if press this button again 2s later,  $\mathbf{v}_0$  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

#### • T-ON button

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

#### • T-OFF button

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

#### NOTE:

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

• Before setting T-ON or T-OFF, please adjust the clock time.

• After starting up T-ON or T-OFF, set the constant circulating valid.

• After that, air conditioner will be turned on or turned off according to setting time.ON/OFF button has no effect on setting. If you don't need this function, please use remote controller to cancel it.

#### (I FEEL )

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

• Please put the remote controller near user when this function is set. Do not put the remote contro ller 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)

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

#### NOTE:

Clock time adopts 24-hour mode.

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

#### (SLEEP)

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

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

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

#### WiFi

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

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

#### NOTE:

• This function is only available for some models.

#### (余/俞) 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 "  $\therefore$  ". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays "  $\therefore$  " and "  $\Rightarrow$  ". Press this button for the third time to quit health and scavenging functions simultaneously. Press the button for the fourth time to start health function; LCD display "  $\Rightarrow$  ". Press this button again to repeat the operation above.

#### NOTE:

• This function is applicable to partial of models.

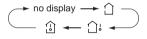
#### 

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

The display light is defaulted on after energization.

#### ( TEMP )

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



• When selecting " 🗋 " or no display with remote controller, temperature indicator on indoor unit displays set temperature.

• When selecting " 🗇 " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.

• When selecting " : with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature.

#### NOTE:

• Outdoor temperature display is not available for some models. At that time, indoor unit receives " ப் " signal, while it displays indoor set temperature.

• It's defaulted to display set temperature when turning on the unit. There is no display in the remote controller.

• Only for the models whose indoor unit has dual-8 display.

• When selecting displaying of indoor or outdoor ambient temperature, indoor temperature indicator displays corresponding temperature and automatically turn to display set temperature after three or five seconds.

#### Introduction for icons on display screen

FAN AUTO		Set fan speed		
	<b>^</b>	Send signal		
	WiFi	WiFi function		
		Set temp.		
	Temp. splay type	û Indoor ambient temp.		
ais	сріау туре	ြဲ Outdoor ambient temp.		
ge	$\square$	Auto mode		
Operation mode	*	Cool mode		
tion	6 <sup>6</sup> 6	Dry mode		
erat	\$	Fan mode		
ð	\$	Heat mode		
	88	Set temperature		
	\$	8°C heating function		
	≉	Health mode		
	£	Scavenging function		
	æ	X-FAN function		
		l feel		
		Child lock		
	Ģ	Quiet		
	\$	Turbo mode		
	63	Sleep mode		
	Θ	Clock		
	ONOFF	TIMER ON / TIMER OFF		
	88:88	Set time		
<b>1</b>		Up & down swing		
	冢	Left & right swing		
	ē	Power limiting operation		

#### Function introduction for combination buttons

#### • Energy-saving function

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

#### NOTE:

• Under energy-saving function, fan speed is defaulted at auto speed and it can't be adjusted.

• Under energy-saving function, set temperature can't be adjusted. Press "TURBO" button and the remote controller won't send signal.

• Sleep function and energy-saving function can't operate at the same time. If energy-saving function has been set under cool mode, press sleep button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

• 8°C heating function

Under heat mode, press "TEMP" and "CLOCK" buttons simultaneously to start up or turn off 8°C heating function. When this function is started up, " (\*) " 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

#### • Temperature display switchover function

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

#### Auto clean function

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

#### NOTE:

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

• This function is only available for some models.

#### Night mode

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

#### NOTE:

• When you feel that the cooling and heating effect is poor, please press "FAN" button to other fan speed or press "SLEEP" button to exit the night mode.

- The night mode can only work under normal ambient temperature.
- This function is only available for some models.

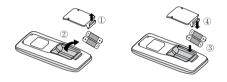
#### Replacement of batteries in remote controller

1. Lift the cover along the direction of arrow (as shown in Fig 1  $\oplus$  ).

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

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

#### (2)Drying mode

Under this mode, fan operates at low speed and swing operates at setting status. Temperature setting range is 16~30°C.
 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  $16 \sim 30^{\circ}$ C.

(2) Working condition and process for heating mode:

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

#### (4)Working method for AUTO mode:

1.Working condition and process for AUTO mode:

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

2. Protection function

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

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

3. Display: Set temperature is the set value under each condition. Ambient temperature is (Tamb.-Tcompensation) for heat pump unit and Tamb. for cooling only unit.

4. If theres I feel function, Tcompensation is 0. Others are same as above.

#### (5)Fan mode

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

#### 2. Other control

#### (1) Buzzer

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

#### (2) Auto button

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

#### (3) Auto fan

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

#### (4) Sleep

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

#### (5) Timer function:

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

#### (6) Memory function

memorize compensation temperature, off-peak energization value. Memory content: mode, up&down swing, light, set temperature, set fan speed, general timer (clock timer cant be memorized).

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

#### (7) Health function

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

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

Once compressor is started, it wont stop within 6 mins according to the change of room temp.

#### (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

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

(2) If theres indoor units controller and outdoor units controller, indoor unit will send compulsory defrosting mode signal to outdoor unit and then outdoor unit will operate under normal defrosting mode. After indoor unit received the signal that outdoor unit has entered into defrosting status, indoor unit will cancel to send compulsory mode to outdoor unit. If outdoor unit hasnt received feedback signal from outdoor unit after 3min, indoor unit will also cancel to send compulsory defrosting signal.

#### (10)Refrigerant recovery function:

Enter into Freon recovery mode actively: Within 5min after energization, turn on the unit at 16<sup>o</sup>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 cant be less than  $180+Ts(0\le T\le 15)$ . T is the variable of controller. Thats to say the minimum stop time of compressor is  $180s\sim195s$ . Readin 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  $8^{\circ}$ C heating function by remote controller. The system will operate at  $8^{\circ}$ C set temperature.

#### (16)Turbo function

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

## Outdoor Unit(07/09/12K)

#### 1. Cooling mode:

Working condition and process of cooling mode:

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

② When Tindoor ambient temperature≤Tpreset-2℃, compressor stops operation and outdoor fan will stop 30s later. Indoor fan operates according to set fan speed.

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

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

#### 2. Drying mode

(1) Working condition and process of drying mode

 When Tindoor ambient temperature > Tpreset, unit will be in drying mode. Outdoor fan and compressor start operation while indoor fan will operate at low fan speed.

② When Tpreset-2℃ ≤Tindoor ambient temperature≤Tpreset, unit operates according to the previous status.

3 When Tindoor ambient temperature < Tpreset-2  $\degree$ 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  $^\circ\!{\rm C}$  .

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

#### 3. Fan mode

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

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

#### 4. Heating mode

Working condition and process of heating mode:

① When Tpreset-(Tindoor ambient temperature-Tcompensation)≥1°C, unit enters into heating mode. Compressor, outdoor fan and 4-way valve start operation.

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

③ When Tpreset-(Tindoor ambient temperature-Tcompensation)≤-2 °C, compressor stops operation and outdoor fan will stop 30s later. Indoor fan will be in residual-heat blowing status.

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

(5) When Toutdoor ambient temperature > 30 °C , compressor stops operation immediately. Outdoor fan will stop 30s later.

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

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

# Outdoor Unit(18/24K)

# Input Parameter Compensation and Calibration Check the ambient temperature compensation function Indoor ambient temperature compensation function.

a. In cooling mode, the indoor ambient temperature participating in computing control = (Tindoor ambient temperature  $- \bigtriangleup$  Tcooling indoor ambient temperature compensation)

b. In heating mode, the indoor ambient temperature participating in computing control= (Tindoor ambient temperature – ∠ Theating indoor ambient temperature compensation)

#### (2) Check effective judgment controls of parameters

Effective judgment function of the outdoor exhaust temperature thermo-bulb When conditions a and b are satisfied, the outdoor exhaust temperature thermo-bulb is judged not to be connected into place, the mainboard of outer units will display failure of the outdoor exhaust temperature thermo-bulb (not connected into place), stop the machine for repairing, and resume the machine by remote controls of ON/OFF.

a. Judgment of exhaust detection temperature change: After the compressor starts up and runs for 10 minutes, if the compressor frequency f  $\geq$  40Hz, and the rising value Texhaust (Texhaust (after start-up for 10 minutes) - Texhaust (before start-up)) < 2°C, the outdoor exhaust temperature thermo-bulb can be judged not to be connected into place (judging once when the power is on the first time).

b. Comparative judgment of exhaust detection temperature and condenser detection temperature (Tpipe temperature = Toutdoor pipe temperature in cooling mode, Tpipe temperature = Tindoor pipe temperature in heating mode): After the compressor starts up and runs for 10 minutes, if the compressor frequency  $f \ge 40$ Hz, and Tpipe temperature  $\ge$ (Texhaust+3), the outdoor exhaust temperature thermobulb can be judged not to be connected into place (judging once when power is on the first time).

#### 2. Basic Functions

#### (1) Cooling Mode

#### 1. Conditions and processes of cooling operation:

(1) If the compressor is shut down, and  $[T_{set up} - (T_{indoor ambient} temperature - <math>aable T_{cooling indoor ambient temperature compensation}] \le 0.5^{\circ}C$ , start up the machine for cooling, the cooling operation will start;

(2) During operations of cooling, if  $0^{\circ}C \leq [T_{set up} - (Tindoor ambient temperature - <math>\triangle$  Tooling indoor ambient temperature compensation)] <  $2^{\circ}C$ , the cooling operation will be still running;

(3) During operations of cooling, if  $2^{\circ}C \leq [T_{set up} - (Tindoor ambient temperature - <math>\bigtriangleup$  T cooling indoor ambient temperature compensation)], the cooling operation will stop after reaching the temperature point.

#### 2. Temperature setting range

(1) If Toutdoor ambient temperature  $\geq$  [Tlow-temperature cooling temperature], the temperature can be set at: 16~30°C (Cooling at room temperature);

(2) If Toutdoor ambient temperature < [Tlow-temperature cooling temperature], the temperature can be set at:  $25 \sim 30^{\circ}$ C (Cooling at low temperature),

that is, the minimum setting temperature for outer units judgment is  $25^{\circ}\mathrm{C}$  .

#### (2) Dehumidifying Mode

1. Conditions and processes of dehumidifying operations: Same as the cooling mode;

2. The temperature setting range is: 16~30°C ;

#### (3) Air-supplying Mode

1. The compressor, outdoor fans and four-way valves are switched off;

2. The temperature setting range is: 16~30°C.

#### (4) Heating Mode

1. Conditions and processes of heating operations: (Tindoor ambient temperature is the actual detection temperature of indoor environment thermo-bulb, Theating indoor ambient temperature compensation is the indoor ambient temperature compensation during heating operations)

(1) If the compressor is shut down, and [(Tindoor ambient temperature –  $\triangle$  Theating indoor ambient temperature compensation) –Tset up]  $\leq 0.5^{\circ}$ C, start the machine to enter into heating operations for heating;

(2) During operations of heating, if  $0^{\circ}C \leq [(Tindoor ambient temperature - <math>\triangle$  Theating indoor ambient temperature compensation)  $-Tset up] < 2^{\circ}C$ , the heating operation will be still running;

(3) During operations of heating, if  $2^{\circ}C \leq [(Tindoor ambient temperature - <math>\bigtriangleup$  Theating indoor ambient temperature compensation) -Tset up], the heating operation will stop after reaching the temperature point.

2. The temperature setting range in this mode is:  $16 \sim 30^{\circ}$ C .

#### 3. Special Functions

#### **Defrosting Control**

① Conditions for starting defrosting

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

(2) Conditions of finishing defrosting

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

(3) Toutdoor pipe temperature  $\geq$  (Toutdoor ambient temperature – [Ttemperature 1 of finishing defrosting];

④ The continuous running time of defrosting reaches [tmax. defrosting time].

#### 4. Control Logic

#### (1) Compressor Control

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

#### 1. Cooling mode

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

#### 2. Dehumidifying mode

Same as the cooling mode.

#### 3. Air-supplying mode

The compressor is switched off.

#### 4. Heating mode

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

(2) Defrosting:

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

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

#### (2) Outer Fans Control

#### Notes:

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

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

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

#### (3) 4-way valve control

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

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

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

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

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

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

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

(3) Defrosting control under heating mode:

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

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

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

At the mode of Cooling, dehumidifying:

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

1. Starting estimation:

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

#### 2. Frequency limited

[Tfrozen-preventing normal speed frequency-reducing temperature]≤Tinner pipe[Tfrozenpreventing frequency-limited temperature], you should limit the frequency raising of compressor.

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

If [Tfrozen-preventing high speed frequency-reducing temperature]≤Tinner pipe [Tfrozenpreventing normal speed frequency-reducing temperature], you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit;

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

If [Tfrozen-preventing power turn-off temperature]≤T inner pipe [Tfrozen-preventing high speed frequency-reducing temperature] you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit;

#### 5. Power turn-off:

If the Tinner pipe <[Tfrozen-preventing power turn-off temperature], then frozen-preventing protect to stop the machine; If T[frozen-preventing frequency-limited temperature] <Tinner pipe , and the compressor has stopped working for 3 minutes, the whole machine should be allowed to operate.

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

#### (5) Overload protection function

Overload protection function at the mode of cooling and dehumidifying

#### 1. Starting estimation:

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

#### 2. Frequency limited

If [TCooling overload frequency-limited temperature] ≤Touter pipe [TCooling overload frequency reducing temperature at normal speed], you should limit the frequency raising of compressor.

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

If [TCooling overload frequency reducing temperature at high speed] <Touter pipe< [TCooling overload power turn-off temperature], you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was

running 90s at the lower limit, if [TCooling overload frequency reducing temperature at normal speed] < Touter pipe, then Cooling overload protects machine stopping;

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

If [TCooling overload frequency reducing temperature at high speed]≤Touter pipe [TCooling overload power turn-off temperature], you should adjust the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if [TCooling overload frequency reducing temperature at normal speed] ≤[Touter pipe], then Cooling overload protects machine stopping;

#### 5. Power turn-off:

If the [TCooling overload power turn-off temperature]≤Touter pipe, then Cooling overload protects machine stopping; If [Touter pipe]<[TCooling overload frequency-limited temperature]and the compressor has been stopped working for 3 minutes, the machine should be allowed to operate.

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

#### Overload protection function at the mode of heating Starting estimation :

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

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

#### 1. Frequency limited

If [Theating overload frequency-limited temperature] < [Theating overload frequency reducing temperature at normal speed], you should limit the frequency raising of compressor.

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

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

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

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

#### 4. Power turn-off:

If the [Theating overload power turn-off temperature] ≤Tinner pipe, then overload protects machine stopping; If T inner pipe T heating overload frequency-limited temperature and the compressor has been stopped working for 3 minutes, the machine should be allowed to operate.

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

#### 1. Starting estimation:

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

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

#### 2. Frequency limited

If [TLimited frequency temperature during discharging]  $\leq$ TDischarge<[Tfrequency reducing temperature at normal speed during discharging], you should limit the frequency raising of compressor.

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

If [Tfrequency reducing temperature at normal speed during discharging] ≤TDischarge<[Tfrequency reducing temperature at high speed during discharging], you should adjust the compressor frequency by reducing 8Hz/90s till the lower limit; After it was running 90s at the lower limit, if [Tfrequency reducing temperature at normal speed during discharging] ≤TDischarge, you should discharge to protect machine stopping;

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

If [Tfrequency reducing temperature at high speed during discharging] ≤TDischarge <[TStop temperature during discharging], you should adjust

the compressor frequency by reducing 30Hz/90s till the lower limit; After it was running 90s at the lower limit, if [Tfrequency reducing temperature at normal speed during discharging]  $\leq$ TDischarge, you should discharge to protect machine stopping:

#### 5. Power turn-off:

If the [TPower turn-off temperature during discharging]  $\leq$ TDischarge, you should discharge to protect machine stopping; If [TDischarge]<[TLimited frequency temperature during discharging] and the compressor has been stopped for 3 minutes, the machine should be allowed to operate.

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

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

#### 7. Frequency limited

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

#### 8. Reducing frequency:

If [IFrequency reducing when overcurrent]  $\leq$  [IAC Electric current I Power turn-off when overcurrent], you should reduce the compressor frequency till the lower limit or exit the frequency reducing condition;

#### 9. Power turn-off:

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

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

#### (6)Voltage sag protection

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

#### (7)Communication fault

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

#### (8)Module protection

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

#### (9)Module overheating protection

#### 1. Starting estimation:

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

#### 2. Frequency limited

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

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

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

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

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

#### 5. Power turn-off:

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

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

#### (10)Compressor overloads protection

If you measure the compressor overload switch action in 3s, the compressor should be stopped for overloading. The machine should be allowed to operate after overload protection was measured to resume. If the overloading protection continuously occurs for three times, it should not be resumed automatically, and you should press the ON/OFF button to resume. The protection times of compressor is allowed to clear after the compressor run [t

Protection times clearing of compressor overloading] 30 minutes.

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

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

#### 1. Frequency limited

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

#### 2. Reducing Frequency

If [I Frequency Reducing Phase Current]≤I Phase Current<[I Power Turn-Off Phase Current], the compressor shall continue to reduce frequency till the lowest frequency limit or out of the condition of reducing frequency;

#### 3. Power turn-off

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

4. If the overcurrent protection of compressor phase current continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running time of compressor exceeds the [t <sub>Clearing Time of Compressor Phase Current Times</sub>], the overcurrent protection is cleared to recount.

#### (12) Starting-up Failure Protection for Compressor

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

#### (13) Out-of-Step Protection for Compressor

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

#### (14) Voltage Abnormity Protection for DC Bus

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

#### 1. Over-High Voltage Protection for DC Bus:

If it found the DCbus voltage  $U_{DC}>[U_{DC \text{ Jiekuangchun Protection}}]$ , turn off PFC and stop the compressor at once, and it shall show the DC over-high voltage failure; it should clear out the failure when the voltage dropped to  $U_{DC}<[U_{DC \text{ Jiekuangchun Recovery}}]$  and the compressor stopped for 3 min.

#### 2.Over-Low Voltage Protection for DC Bus:

If it found the DC bus voltage  $U_{DC} < [U_{DC Wantuochun Protection}]$ , turn off PFC and stop the compressor at once, and it shall show the DC over-low voltage; and it should clear out the failure when the voltage raised to  $U_{DC} > [U_{DC Wantuochun Recovery}]$  and the compressor stopped for 3 min.

# 3.To detect voltage abnormity protect for DC bus when getting electricity:

If it found the DC bus voltage  $U_{DC}>[U_{DC-Over-High Voltage}]$ , turn off the relay at once, and shows voltage abnormity failure for DC Bus. And the failure can't recover except to break off and get the electricity.

#### (15) Abnormity Protection for Four-way Valve

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

available if presses ON/OFF.

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

#### (16) PFC Protection

1. After start up the PFC, it should detect the protection signal of PFC immediately; under the condition of PFC protection, it should turn off the PFC and compressor at one time;

2. It shows the failure is cleared out if PFC Protection stopped working 3 min and recovers to run automatically;

3. If it still can't run when it occurs PFC protection for 3 times in succession, it is available if presses ON/OFF; and clear the PFC Protection times when start up PFC for 10min.

#### (17) Failure Detection for Sensor

1. Outdoor Ambient Sensor: detect the failure of sensor at all times.

2. Outdoor Tube Sensor: You should not detect the failure of outdoor tube sensor within 10 minutes heating operation compressor except the defrosting, and you could detect it at other time.

3. Outdoor Exhaust Sensor:

(a) The compressor only detect the sensor failure after it start up 3 min in normal mode;

(b) It should detect the exhaust sensor failure immediately in the testing mode.

4. Module Temperature Sensor:

(a) Short-Circuit Detection: the compressor should be detected immediately when the module temperature sensor occurs short-circuits;

(b) Open-Circuit Detection: the compressor should be detected on open-circuit when it runs 3min (it neednt 30s avoiding the module over-heated).

(c) Detect the sensor failure at all times in the testing mode.

5. Disposal for Sensor Protection

(1) When the short-circuit of sensor is detected within 30s, It is regarded as the temperature of sensor over-high (or infinitely high), and now according to the over-high sensor, the machine should carry out the corresponding protection to stop working, and show the corresponding temperature shutdown protection and sensor failure at the same time (for example: the compressor stops immediately when the outdoor tube sensor short-circuit, and the machine shall show the overload protection and outdoor tube sensor failure).

(2) When the open-circuit of sensor is detected within 30s, The protection shall be stopped and it shall show the corresponding sensor failure.

6. Electric Heating Function of Chassis

(1) When  $T_{outdoor amb.} \leq 0^{\circ}C$ , the electric heating of chassis will operate;

(2) When  $T_{outdoor amb.}$ >2°C, the electric heating of chassis will stop operation;

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

7. Electric Heating Function of Compressor

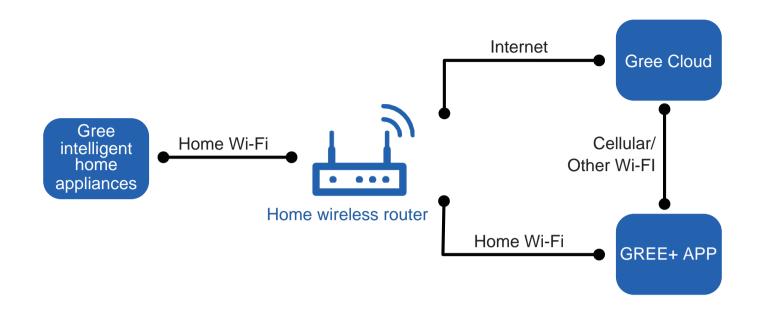
(1) When T<sub>outdoor amb.</sub>≤-5°C, compressor stops operation, while the electric heating of compressor starts operation;

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

(3) When -5°C<T<sub>outdoor amb.</sub>≤-2°C, the electric heating of compressor will keep original status.

# 6.3 GREE+ App Operation Manual

# **Control Flow Chart**



# **Operating Systems**

Requirement for User's smart phone:





Android system Support Android 4.4 and above version

# Download and installation

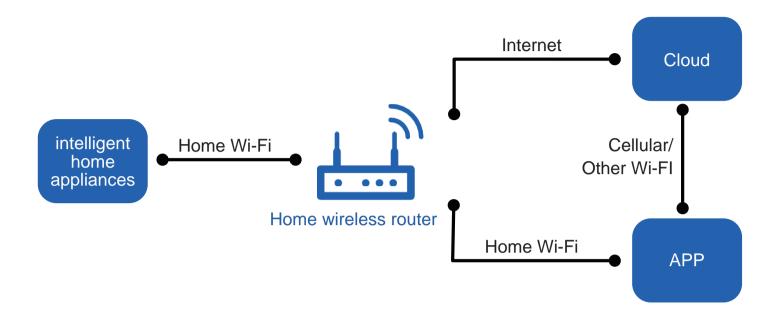


GREE+ App Download Linkage

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

# 6.4 Ewpe Smart App Operation Manual

# **Control Flow Chart**



# **Operating Systems**

Requirement for User's smart phone:



# Download and installation



App Download Linkage

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

# 7. Notes for Installation and Maintenance

# Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

•The installation or maintenance must accord with the instructions.

•Comply with all national electrical codes and local electrical codes.

•Pay attention to the warnings and cautions in this manual.

•All installation and maintenance shall be performed by distributor or qualified person.

•All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.

•Be caution during installation and maintenance. Prohibit incorrect operation to prevent electric shock, casualty and other accidents.



## **Electrical Safety Precautions:**

1. Cut off the power supply of air conditioner before checking and maintenance.

2. The air condition must apply specialized circuit and prohibit share the same circuit with other appliances.

3. The air conditioner should be installed in suitable location and ensure the power plug is touchable.

4. Make sure each wiring terminal is connected firmly during installation and maintenance.

5. Have the unit adequately grounded. The grounding wire cant be used for other purposes.

6. Must apply protective accessories such as protective boards, cable-cross loop and wire clip.

7. The live wire, neutral wire and grounding wire of power supply must be corresponding to the live wire, neutral wire and grounding wire of the air conditioner.

8. The power cord and power connection wires cant be pressed by hard objects.

9. If power cord or connection wire is broken, it must be replaced by a qualified person.

10. If the power cord or connection wire is not long enough, please get the specialized power cord or connection wire from the manufacture or distributor. Prohibit prolong the wire by yourself.

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

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

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

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

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

## **Installation Safety Precautions:**

1. Select the installation location according to the requirement of this manual.(See the requirements in installation part)

2. Handle unit transportation with care; the unit should not be carried by only one person if it is more than 20kg.

3. When installing the indoor unit and outdoor unit, a sufficient fixing bolt must be installed; make sure the installation support is firm.

4. Ware safety belt if the height of working is above 2m.

5. Use equipped components or appointed components during installation.

6. Make sure no foreign objects are left in the unit after finishing installation.

## **Refrigerant Safety Precautions:**

1. When refrigerant leaks or requires discharge during installation, maintenance, or disassembly, it should be handled by certified professionals or otherwise in compliance with local laws and regulations.

2.Avoid contact between refrigerant and fire as it generates poisonous gas; Prohibit prolong the connection pipe by welding.

3. Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture or other hazards.

4. Make sure no refrigerant gas is leaking out when installation is completed.

5. If there is refrigerant leakage, please take sufficient measure to minimize the density of refrigerant.

6. Never touch the refrigerant piping or compressor without wearing glove to avoid scald or frostbite.

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

# Safety Precautions for Installing and Relocating the Unit:

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



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 Xm<sup>2</sup>.

•Appliance filled with flammable gas R32. For repairs, strictly follow manufacturers instructions only.Be aware that refrigrants not contain odour.

•Read specialists manual.



# Safety Operation of Flammable Refrigerant

# Qualification requirement for installation and maintenance man

•All the work men who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by this industry. If it needs

other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.

•It can only be repaired by the method suggested by the equipments manufacturer.

#### Installation notes

•The air conditioner is not allowed to use in a room that has running fire (such as fire source,working coal gas ware, operating heater).

•It is not allowed to drill hole or burn the connection pipe.

•The air conditioner must be installed in a room that is larger than the minimum room area.

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

•Leak test is a must after installation.

table a - Minimum room area (m<sup>2</sup>)

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

#### Maintenance notes

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

- Its only allowed to be operated in the rooms that meet the requirement of the nameplate.

•Check whether the maintenance area is well-ventilated.

— The continuous ventilation status should be kept during the operation process.

•Check whether there is fire source or potential fire source in the maintenance area.

— The naked flame is prohibited in the maintenance area; and the "no smoking" warning board should be hanged.

•Check whether the appliance mark is in good condition.

- Replace the vague or damaged warning mark.

#### Welding

•If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:

- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with  $N_{\scriptscriptstyle 2}$  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.

Filling the refrigerant

•Use the refrigerant filling appliances specialized for R32. Make sure that different kinds of refrigerant wont contaminate with each other.

•The refrigerant tank should be kept upright at the time of filling refrigerant.

•Stick the label on the system after filling is finished (or havent finished).

•Dont overfilling.

•After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when its removed.

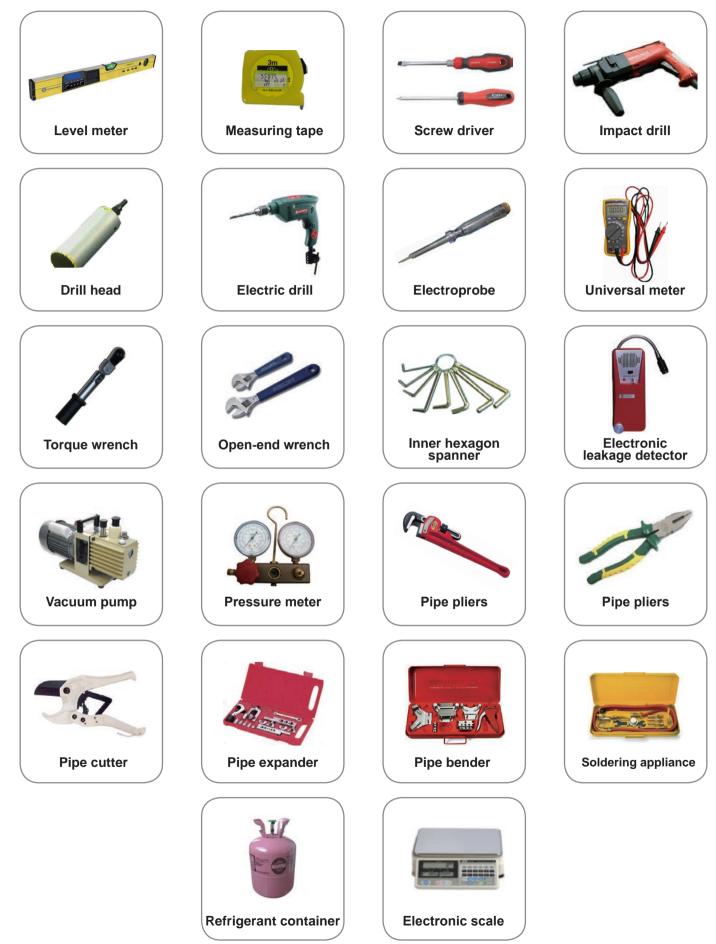
Safety instructions for transportation and storage

•Please use the flammable gas detector to check before unload and open the container.

•No fire source and smoking.

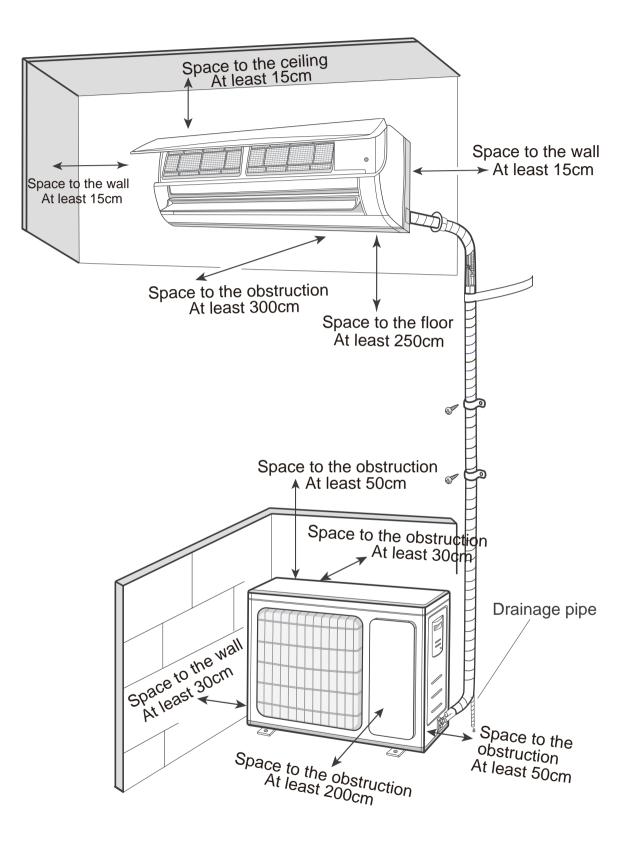
•According to the local rules and laws.

# Main Tools for Installation and Maintenance



# 8. Installation

# 8.1 Installation Dimension Diagram



# **Installation Procedures**



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

# 8.2 Installation Parts-checking

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

#### **∧** Note:

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

# 8.3 Selection of Installation Location

#### 1. Basic Requirement:

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

(1) The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.

(2) The place with high-frequency devices (such as welding machine, medical equipment).

(3) The place near coast area.

(4) The place with oil or fumes in the air.

(5) The place with 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 andwont affect other people.

(3) Select a location which is convenient to connect the outdoor unit and near the power socket.

(4) Select a location which is out of reach for children.

(5) The location should be able to withstand the weight of indoor unit and wont increase noise and vibration.

(6) The appliance must be installed 2.5m above floor.

(7) Dont install the indoor unit right above the electric appliance.

(8) Please try your best to keep way from fluorescent lamp.

## 3. Outdoor Unit:

(1) Select a location where the noise and outflow air emitted by the outdoor unit will not affect neighborhood.

(2) The location should be well ventilated and dry, in which the outdoor unit wont be exposed directly to sunlight or strong wind.

(3) The location should be able to withstand the weight of outdoor unit.

(4) Make sure that the installation follows the requirement of installation dimension diagram.

(5) Select a location which is out of reach for children and far away from animals or plants. If it is unavoidable, please add fence for safety purpose.

# 8.4 Electric Connection Requirement 1. Safety Precaution

 $\left(1\right)$  Must follow the electric safety regulations when installing the unit.

(2) According to the local safety regulations, use qualified power supply circuit and air switch.

(3) Make sure the power supply matches with the requirement of air conditioner. Unstable power supply or incorrect wiring may result in electric shock, fire hazard or malfunction. Please install proper power supply cables before using the air conditioner.

(4) Properly connect the live wire, neutral wire and grounding wire of power socket.

(5) Be sure to cut off the power supply before proceeding any work related to electricity and safety.

(6) Do not put through the power before finishing installation.

(7) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard .

(8) The temperature of refrigerant circuit will be high, please keep the interconnection cable away from the copper tube.

(9) The appliance shall be installed in accordance with national wiring regulations.

#### 2. Grounding Requirement:

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

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

(2) The yellow-green wire in air conditioner is grounding wire, which cant be used for other purposes.

(3) The grounding resistance should comply with national electric safety regulations.

(4) The appliance must be positioned so that the plug is accessible.

(5) An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.

(6) Including an air switch with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

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

# 8.5 Installation of Indoor Unit

#### 1. Choosing Installation location

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

#### 2. Install Wall-mounting Frame

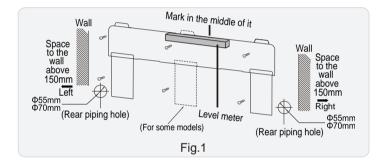
(1) Hang the wall-mounting frame on the wall; adjust it in horizontal position with the level meter and then point out the screw fixing holes on the wall.

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

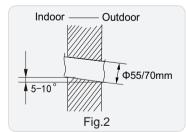
(3) Fix the wall-mounting frame on the wall with tapping screws and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

#### 3. Install Wall-mounting Frame

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



(2) Open a piping hole with the diameter of  $\Phi$ 55mm or  $\Phi$ 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)



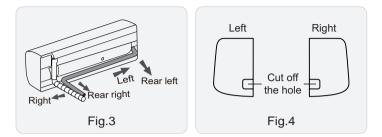
## <sup>▲</sup> Note:

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

## 4. Outlet Pipe

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

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



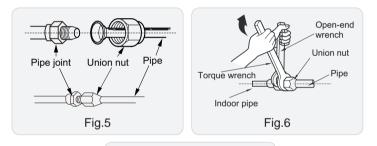
## 5. Connect the Pipe of Indoor Unit

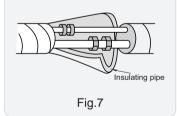
(1) Aim the pipe joint at the corresponding bellmouth.(As show in Fig.5)  $% \left( {{\rm{As}}} \right) = \left( {{\rm{$ 

(2) Pretightening the union nut with hand.

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

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





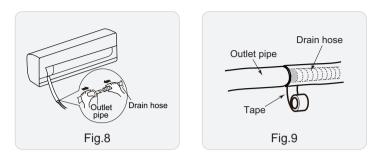
Refer to the following table for wrench moment of force:

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

#### 6. Install Drain Hose

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

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

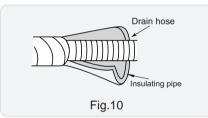


## A Note:

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

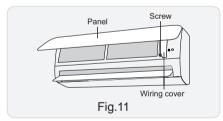
(2) The plastic expansion particles are not provided.

(As show in Fig.10)

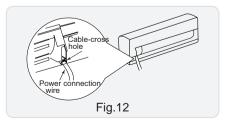


## 7. Connect Wire of Indoor Unit

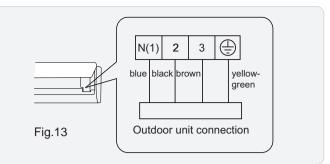
(1) Open the panel, remove the screw on the wiring cover and then take down the cover.(As show in Fig.11)



(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)



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

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

(5) Close the panel.

#### A Note:

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

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

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

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

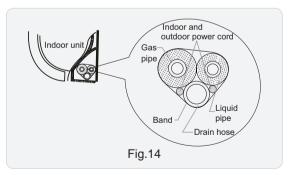
## 8. Bind up Pipe

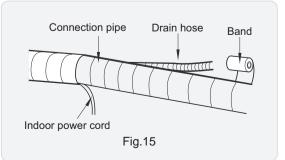
(1) Bind up the connection pipe, power cord and drain hose with the band.(As show in Fig.14)

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

(3) Bind them evenly.

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





### A Note:

(1) The power cord and control wire cant be crossed or winding.

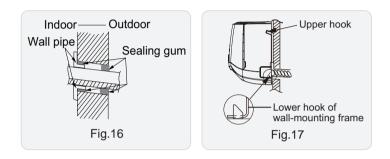
(2) The drain hose should be bound at the bottom.

#### 9. Hang the Indoor Unit

(1) Put the bound pipes in the wall pipe and then make them pass through the wall hole.

- (2) Hang the indoor unit on the wall-mounting frame.
- (3) Stuff the gap between pipes and wall hole with sealing gum.
- (4) Fix the wall pipe.(As show in Fig.16)

(5) Check if the indoor unit is installed firmly and closed to the wall.(As show in Fig.17)



# A 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.

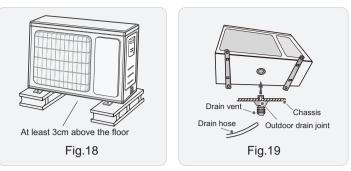
# <sup>▲</sup> Note:

 Take sufficient protective measures when installing the outdoor unit.

(2) Make sure the support can withstand at least four times the unit weight.

(3) The outdoor unit should be installed at least 3cm above the floor in order to install drain joint.(As show in Fig.18)

(4) For the unit with cooling capacity of 2300W~5000W, 6 expansion screws are needed; for the unit with cooling capacity of 6000W~8000W, 8 expansion screws are needed; for the unit with cooling capacity of 10000W~16000W, 10 expansion screws are needed.



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

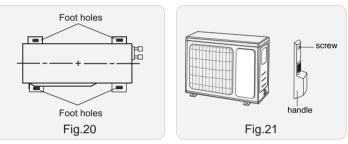
- (1) Connect the outdoor drain joint into the hole on the chassis.
- (2) Connect the drain hose into the drain vent.

(As show in Fig.19)

#### 3. Fix Outdoor Unit

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

(As show in Fig.20)



## 4. Connect Indoor and Outdoor Pipes

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

NOTE:

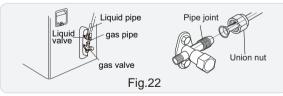
• When there're multiple cables passing through it,

the cross-hole of handle should be knocked off and <sup>cro</sup> eliminate the sharp burrs for avoid damaging the cables.



• Only applicable for some models.

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



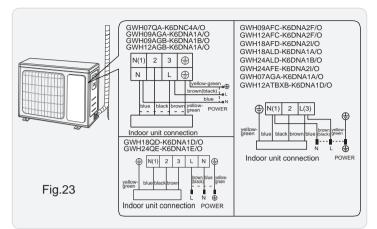
- (3) Pretightening the union nut with hand.
- (4) Tighten the union nut with torque wrench .

Refer to the following table for wrench moment of force:

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

#### 5. Connect Outdoor Electric Wire

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



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

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

#### A Note:

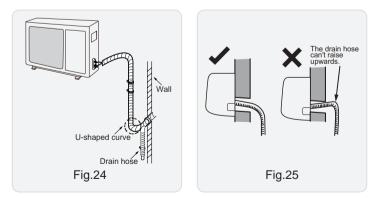
(1) After tightening the screw, pull the power cord slightly to check if it is firm.

(2) Never cut the power connection wire to prolong or shorten the distance.

#### 6. Neaten the Pipes

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

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

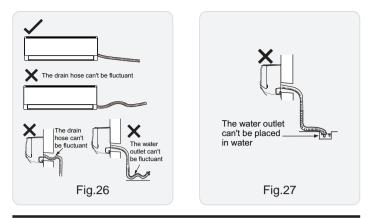


#### A Note:

(1) The through-wall height of drain hose shouldnt be higher than the outlet pipe hole of indoor unit.(As show in Fig.25)

(2) Slant the drain hose slightly downwards. The drain hose cant be curved, raised and fluctuant, etc.(As show in Fig.26)

(3) The water outlet cant be placed in water in order to drain smoothly.(As show in Fig.27)



# 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.

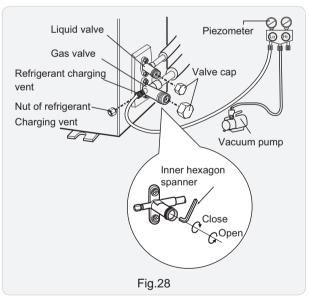
(2) Connect the charging hose of piezometer to the refrigerant charging vent of gas valve and then connect the other charging hose to the vacuum pump.

(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.

 $\bullet$  If the ambient temperature is lower than 16  $~\,^\circ\!\mathbb{C}\,$  , the air conditioner cant start cooling.

# 9. Maintenance

# 9.1 Error Code List

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

			1
Outdoor ambient temperature sensor is open/short circuited	F3	During cooling and drying operating, compressor stops while indoor fan operates; During heating operation, the complete unit will stop operation	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
Outdoor condenser temperature sensor is open/short circuited	F4	During cooling and drying operation, compressor stops while indoor fan will operate; During heating operation, the complete unit will stop operation.	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
Outdoor discharge temperature sensor is open/short circuited	F5		1.Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2.The head of temperature sensor hasnt been inserted into the copper tube
Limit/decrease frequency due to overload	F6	All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)
Decrease frequency due to overcurrent	F8	All loads operate normally, while operation frequency for compressor is decreased	The input supply voltage is too low; System pressure is too high and overload
Decrease frequency due to high air discharge	F9		Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
Limit/decrease frequency due to antifreezing	FH	All loads operate normally, while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low
Voltage for DC bus- bar is too high	РН	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)
Voltage of DC bus-bar is too low	PL	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	<ol> <li>Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 150VAC, turn on the unit after the supply voltage is increased to the normal range.</li> <li>If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)</li> </ol>
Compressor Min frequence in test state	P0		Showing during min. cooling or min. heating test
Compressor rated frequence in test state	P1		Showing during nominal cooling or nominal heating test
Compressor maximum frequence in test state	P2		Showing during max. cooling or max. heating test
Compressor intermediate frequence in test state	P3		Showing during middle cooling or middle heating test
Overcurrent protection of phase current for compressor	P5	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
Charging malfunction of capacitor	PU	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Refer to the part three—charging malfunction analysis of capacitor

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

		1	1 4
Malfunction of phase		During cooling and drying operation, compressor will stop while indoor fan will	
current detection	U1		Replace outdoor control panel AP1
circuit for compressor		operate; During heating operation, the	
		complete unit will stop	
Malfunction of voltage		During cooling and drying operation,	
dropping for DC	U3	compressor will stop while indoor fan will	Supply voltage is unstable
busbar		operate; During heating operation, the	
		complete unit will stop	
Malfunction of		During cooling and drying operation, the	
complete units current	U5	compressor will stop while indoor fan will	Theres circuit malfunction on outdoor units control panel
detection	00	operate; During heating operating, the	AP1, please replace the outdoor units control panel AP1.
detection		complete unit will stop operation.	
Cold air prevention	E9		Not the error code. It's the status code for the operation.
protection	L9		
Refrigerant recovery	Fo		Refrigerant recovery. The Serviceman operates it for
mode	10		maintenance.
			1.Main board of indoor unit is damaged;
Malfunction of	JF	Loads operate normally, while the unit	2.Detection board is damaged;
detecting plate(WIFI)	JF	can't be normally controlled by APP.	3.The connection between indoor unit and detection board is
			not good;
			1. Outdoor ambient temperature exceeds the operation range
			of unit (eg: less than- 20°C or more than 60°C for cooling;
Undefined outdoor unit		operation, while indoor fan operates; Heat:	more than 30°C for heating);
	οE		2. Failure startup of compressor?
error			3. Are wires of compressor not connected tightly?
		stop operation.	4. Is compressor damaged?
			5. Is main board damaged?
			J. IS Main board damayed?

# Analysis or processing of some of the malfunction display:

## 1. Compressor discharge protection

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

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

#### 2. Low voltage overcurrent protection

Possible cause: Sudden drop of supply voltage.

#### 3.Communication malfunction

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

## 4. Sensor open or short circuit

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

#### 5. Compressor over load protection

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

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

#### 6. System malfunction

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

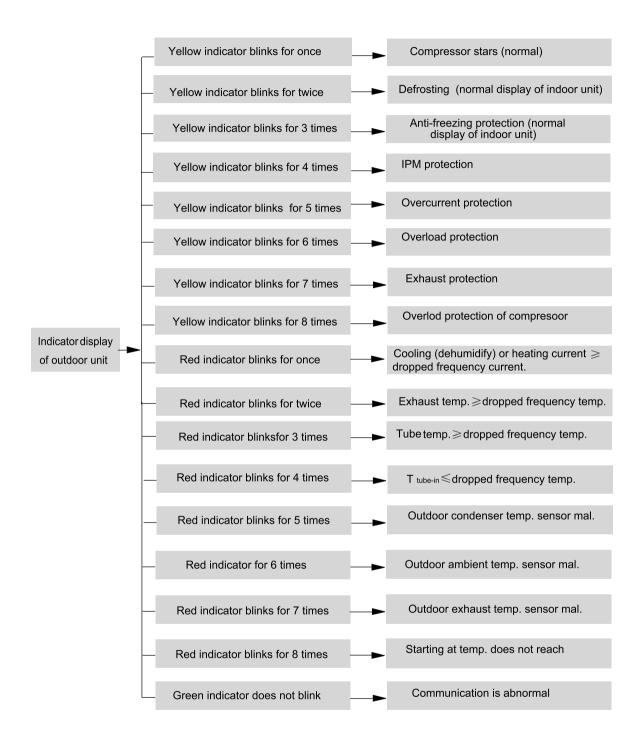
Possible causes: Outdoor temperature is too high when cooling; insufficient outdoor air circulation; refrigerant flow malfunction.

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

#### 7. IPM module protection

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

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



# 9.2 Procedure of Troubleshooting

#### •Indoor unit:

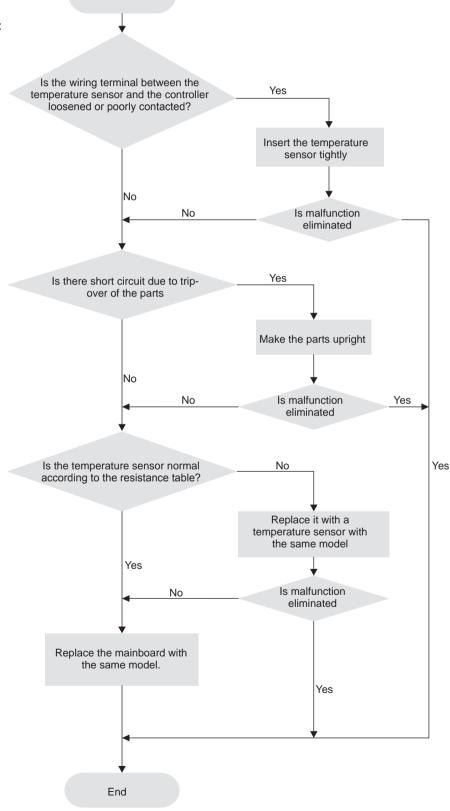
## 1. Malfunction of Temperature Sensor F1, F2

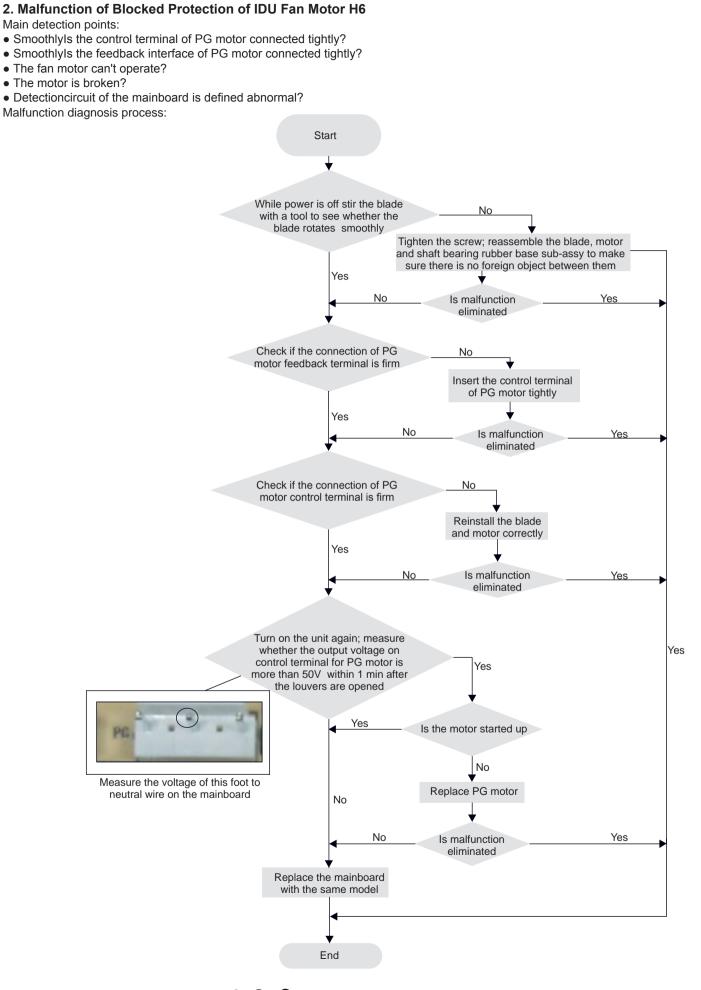
Main detection points:

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

Start

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

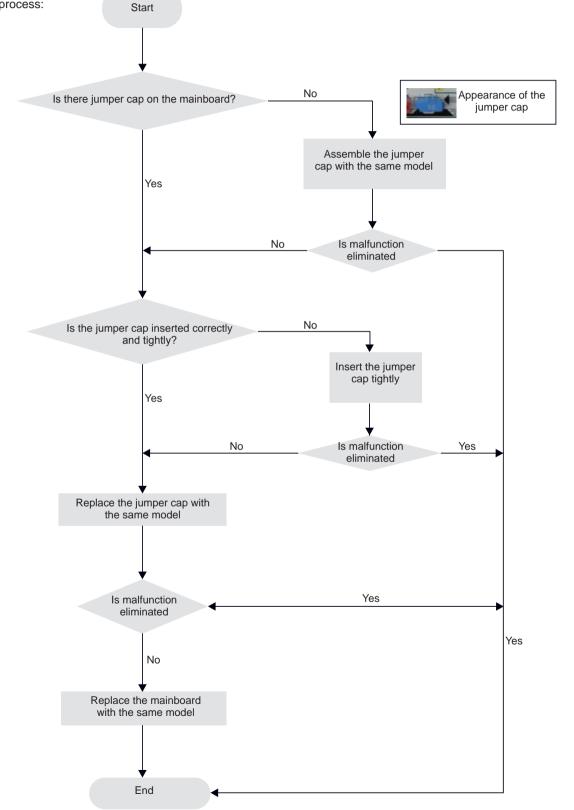




### 3. Malfunction of Protection of Jumper Cap C5

Main detection points:

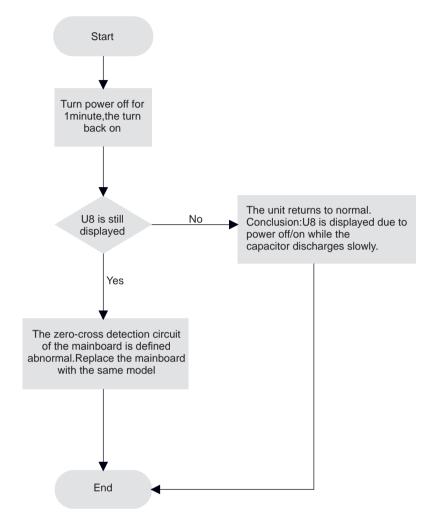
- Is there jumper cap on the mainboard?
- Is the jumper cap inserted correctly and tightly?
- The jumper is broken?
- The motor is broken?
- Detection circuit of the mainboard is defined abnormal?



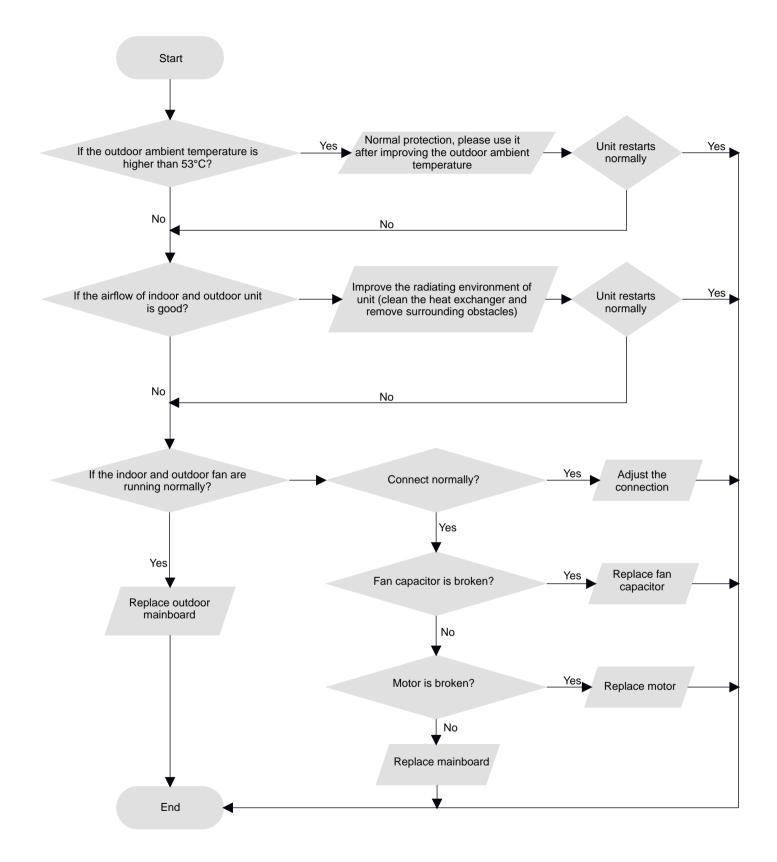
### 4. Malfunction of Zero-crossing Inspection Circuit Malfunction of the IDU Fan Motor U8

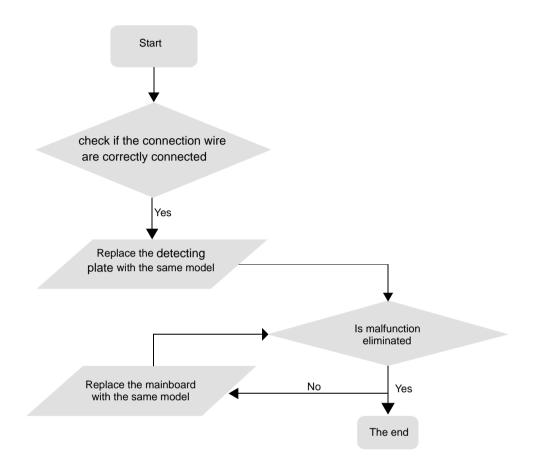
Main detection points:

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



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





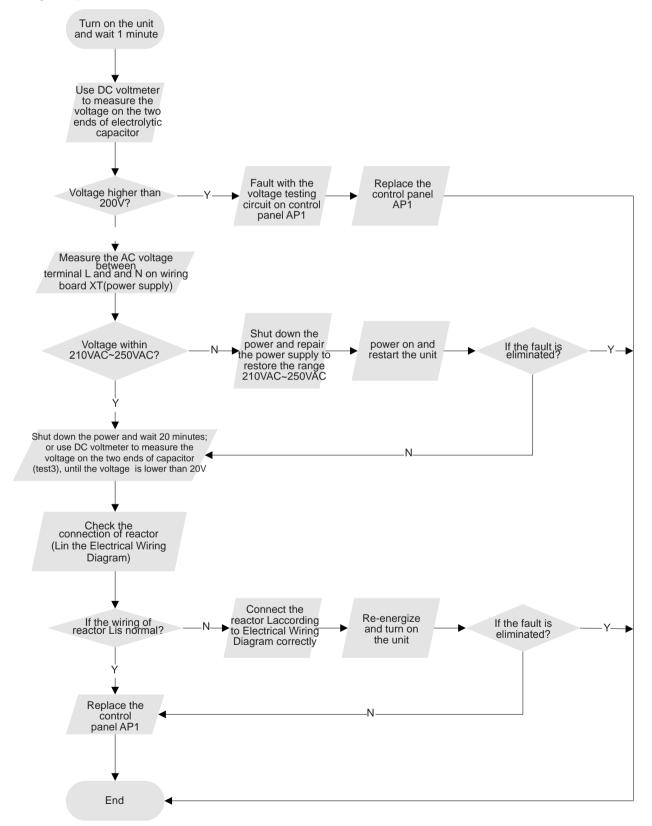
#### •Outdoor unit:

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

Main detection point:

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

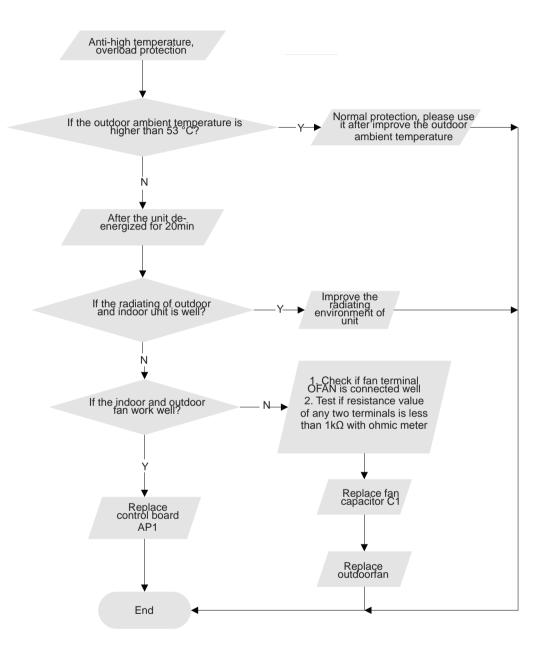


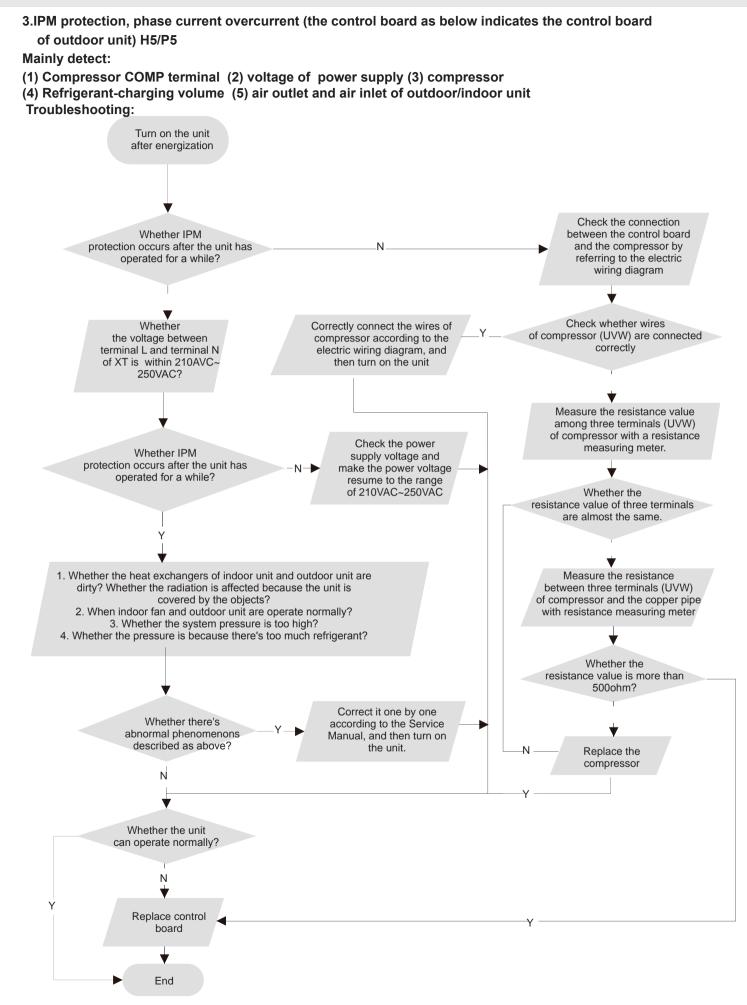


#### 2. Diagnosis for anti-high temperature, overload protection (AP1 below is control board of outdoor unit)

Main detection point:

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

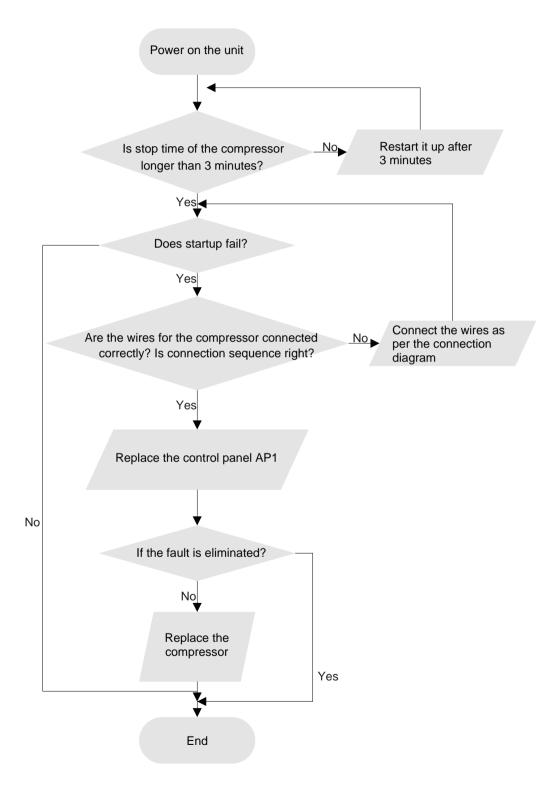




#### 4. Start-up failure (following AP1 for outdoor unit control board)

Mainly detect:

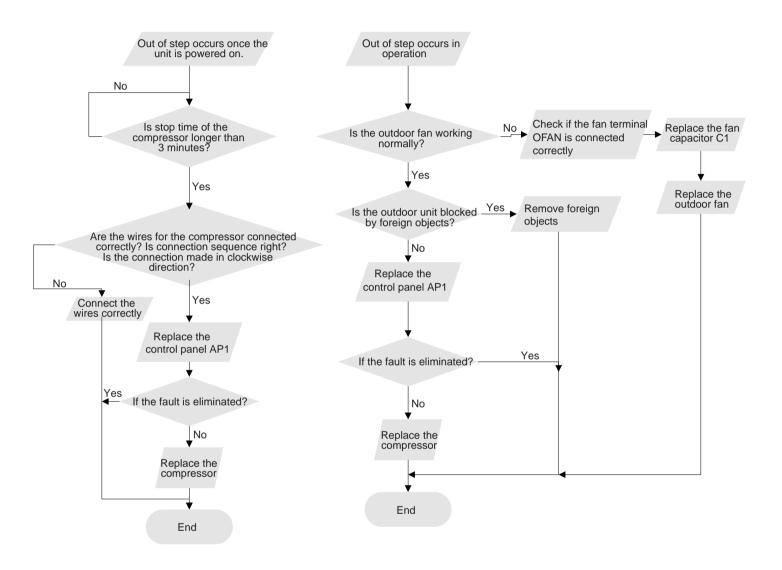
- •Whether the compressor wiring is connected correct?
- •Is compressor broken?
- •Is time for compressor stopping enough?
- Fault diagnosis process:



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

Mainly detect:

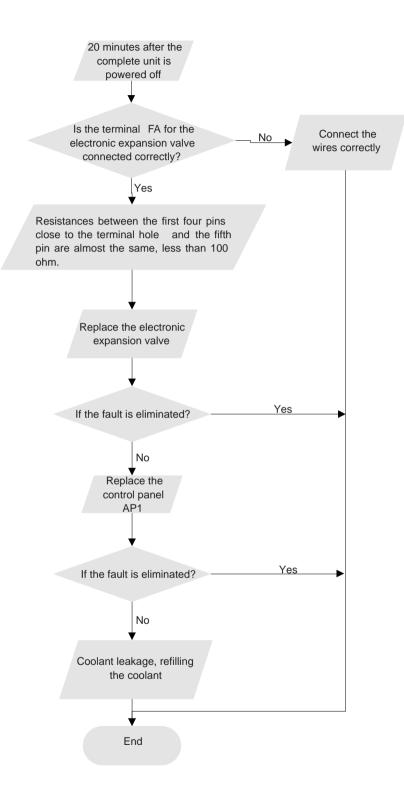
- •Is the system pressure too high?
- •Is the input voltage too low?
- Fault diagnosis process:



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

Mainly detect:

- •Is the PMV connected well or not? Is PMV damaged?
- •Is refrigerant leaked?
- Fault diagnosis process:

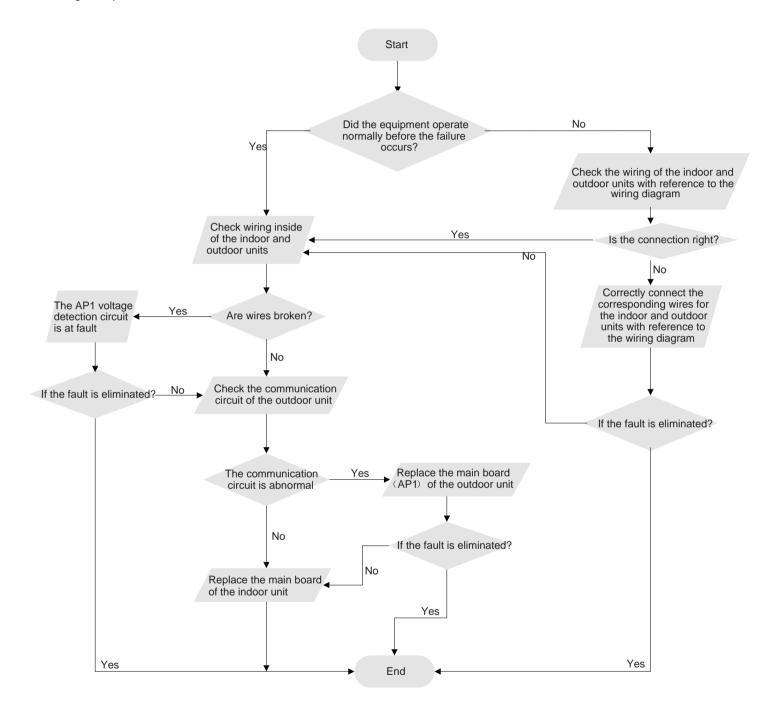


#### 7. Communication malfunction: (following AP1 for outdoor unit control board)

Mainly detect:

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

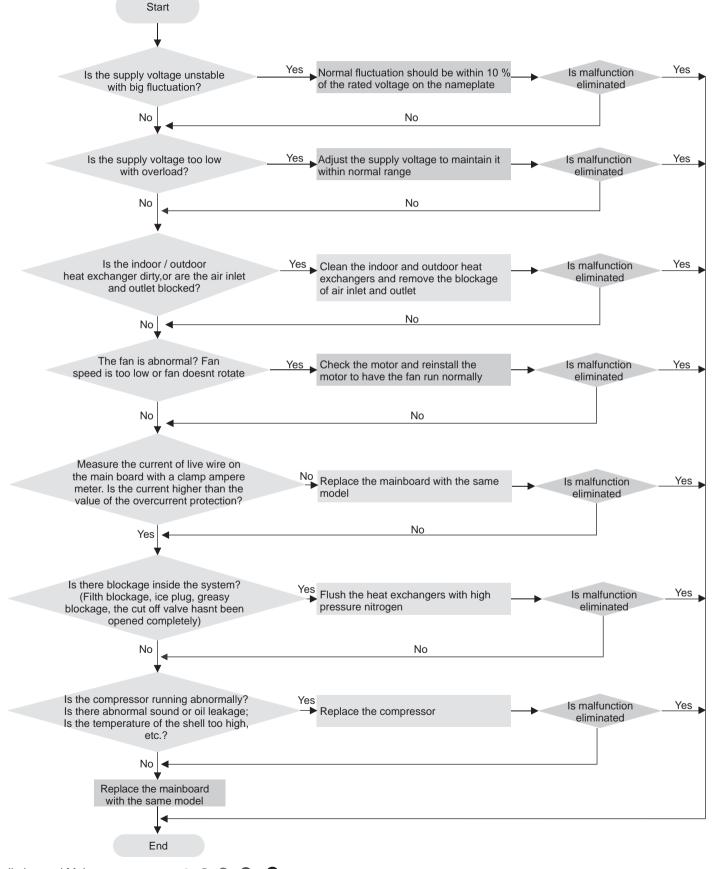
Fault diagnosis process:



# 8. Malfunction of Overcurrent Protection

Main detection points:

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



# 9.3 Troubleshooting for Normal Malfunction

# 1. Air Conditioner Cant be Started Up

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

# 2. Poor Cooling (Heating) for Air Conditioner

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

## 3. Horizontal Louver Cant Swing

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

# 4. ODU Fan Motor Cant Operate

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Wrong wire connection, or poor connection		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		Change compressor oil and refrigerant. If no better, replace the compressor with a new one

# 5. Compressor Cant Operate

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

# 6. Air Conditioner is Leaking

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Drain pipe is blocked	Water leaking from indoor unit	Eliminate the foreign objects inside the drain pipe
Drain pipe is broken	Water leaking from drain pipe	Replace drain pipe
	Water leaking from the pipe connection place of indoor unit	Wrap it again and bundle it tightly

# 7. Abnormal Sound and Vibration

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

# **10. Exploded View and Parts List**

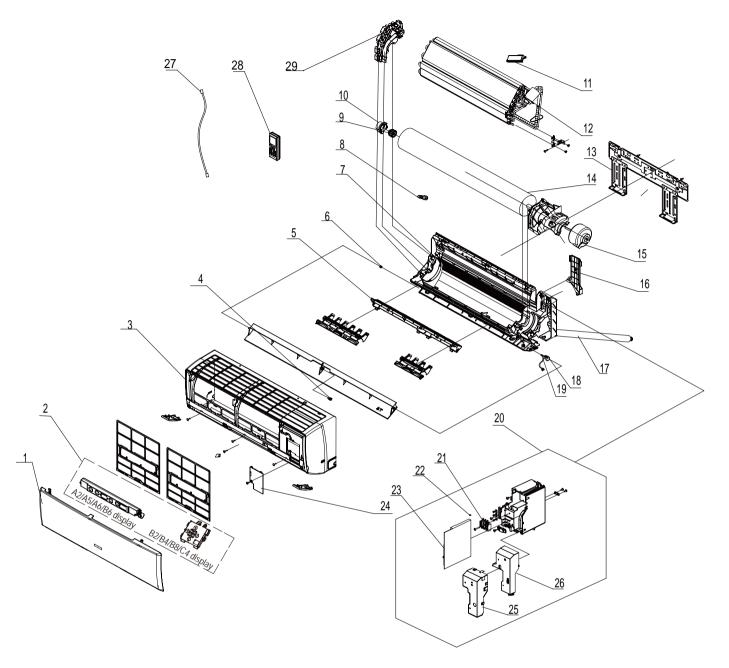
# 10.1 Indoor Unit

QC

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

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

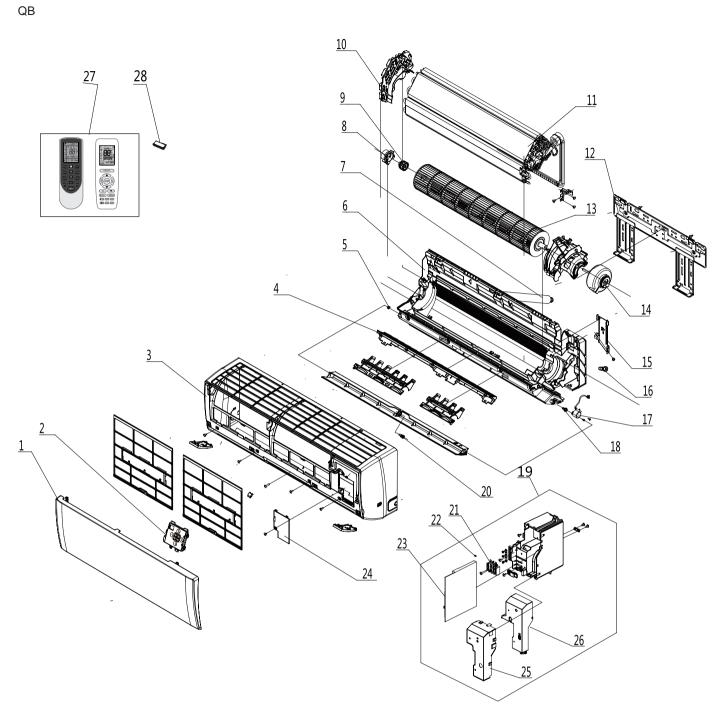




The component picture is only for reference; please refer to the actual product.

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

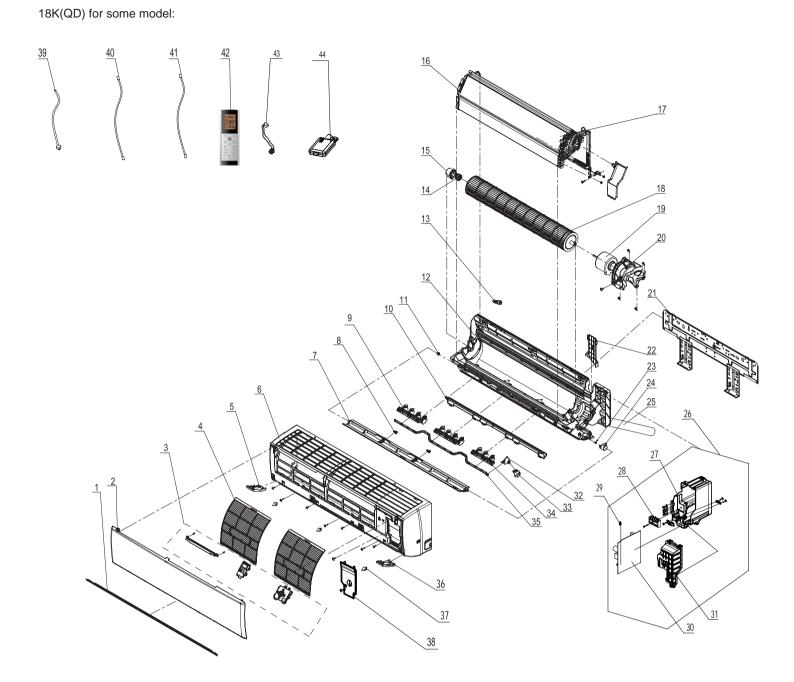
Some models may not contain some parts, please refer to the actual product.



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

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

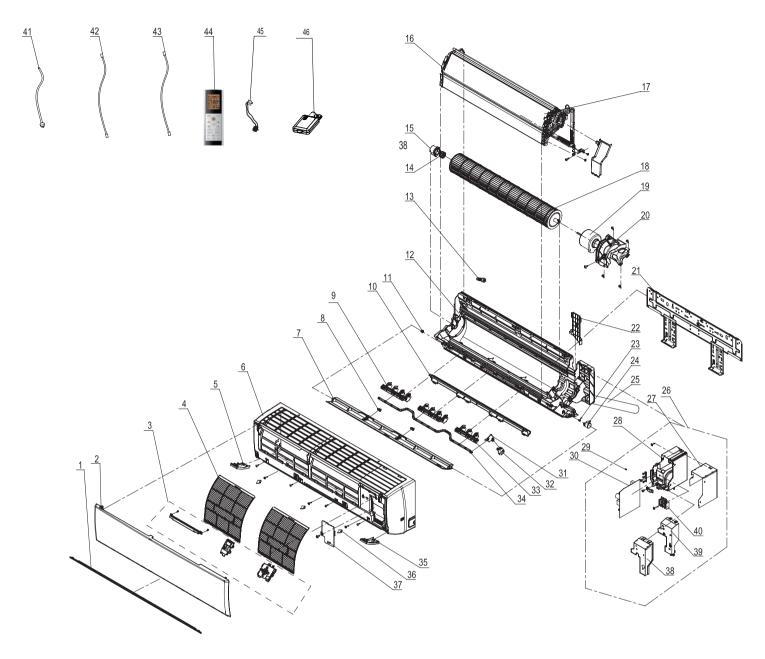
Some models may not contain some parts, please refer to the actual product.



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

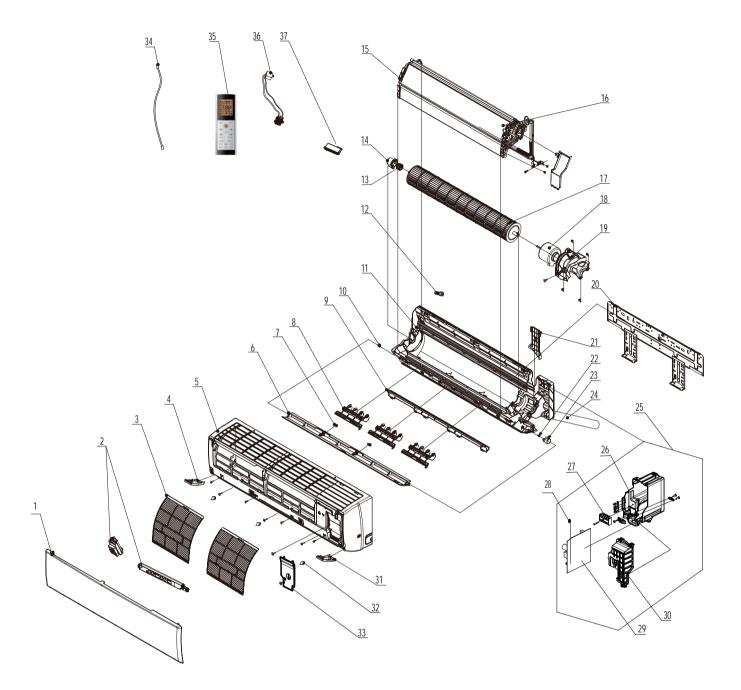
No.	Description
1	Decorative Strip
2	Front Panel Assy
3	Display Board
4	Filter Sub-Assy
•	,
5	Decorative Board (Left)
6	Front Case
7	Guide Louver
8	Axile Bush
9	Air Louver 1
10	Helicoid tongue
11	Left Axile Bush
12	Rear Case assy
13	Rubber Plug (Water Tray)
14	O-Gasket sub-assy of Bearing
15	Ring of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

GWH18QD-K6DNC4D



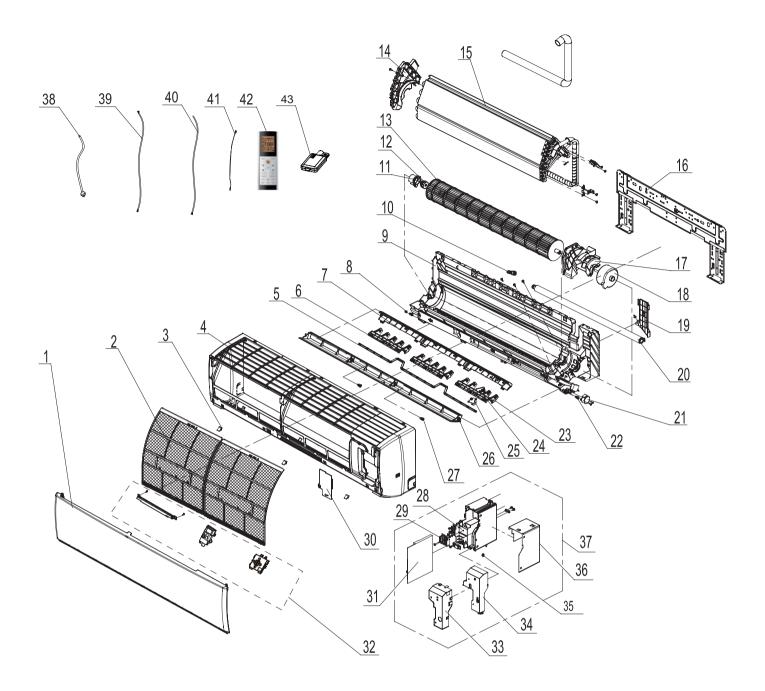
The component picture is only for reference; please refer to the actual product.

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



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

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

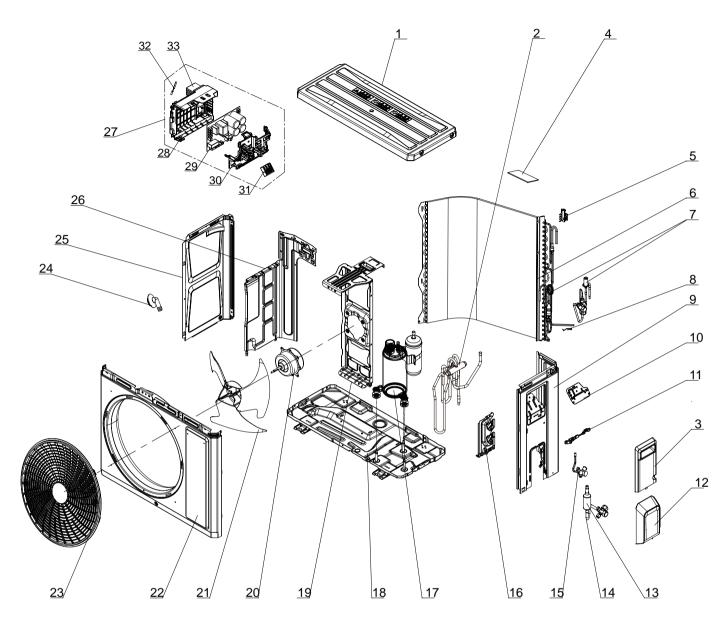


The component picture is only for reference; please refer to the actual product.

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

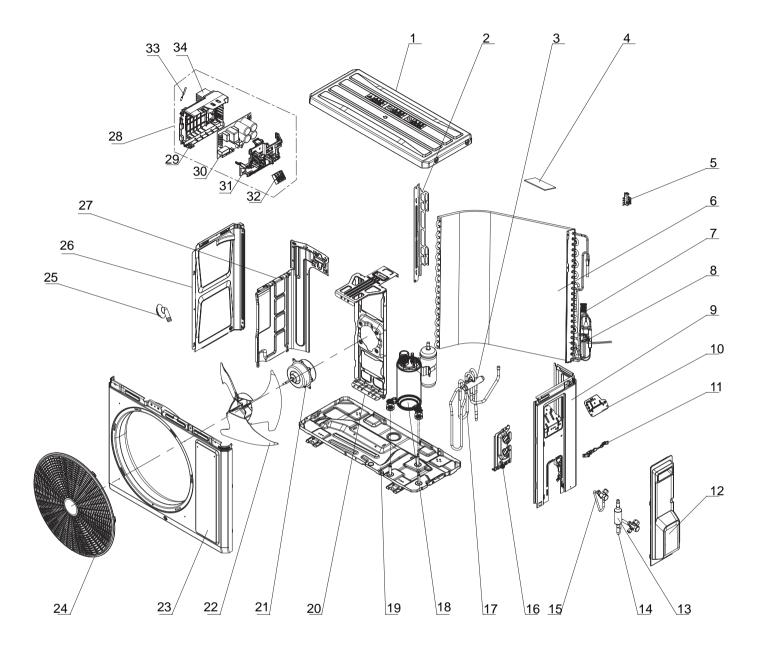
### **10.2 Outdoor Unit**

GWH09AFC-K6DNA2F/O GWH12AFC-K6DNA2F/O GWH18ALD-K6DNA1A/O GWH12ATBXB-K6DNA1D/O



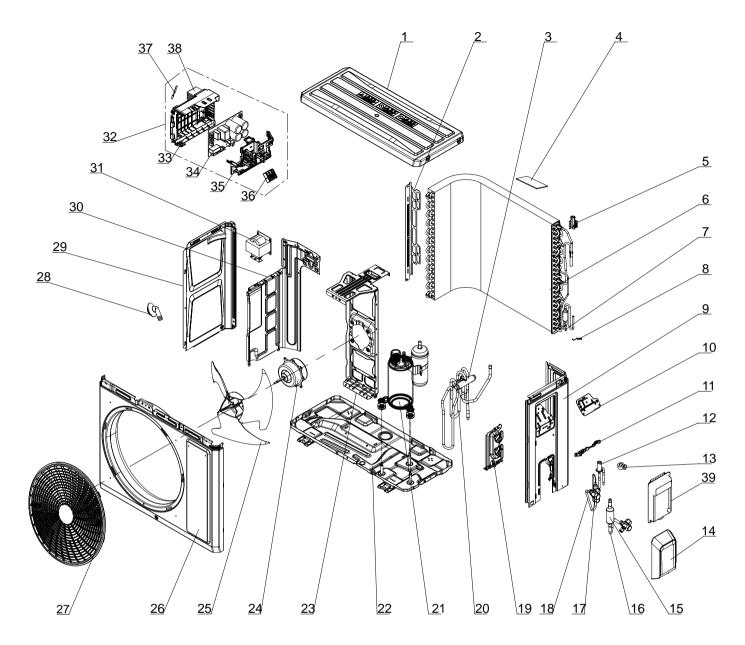
The component is only for rererence;please refer to the actual product

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



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

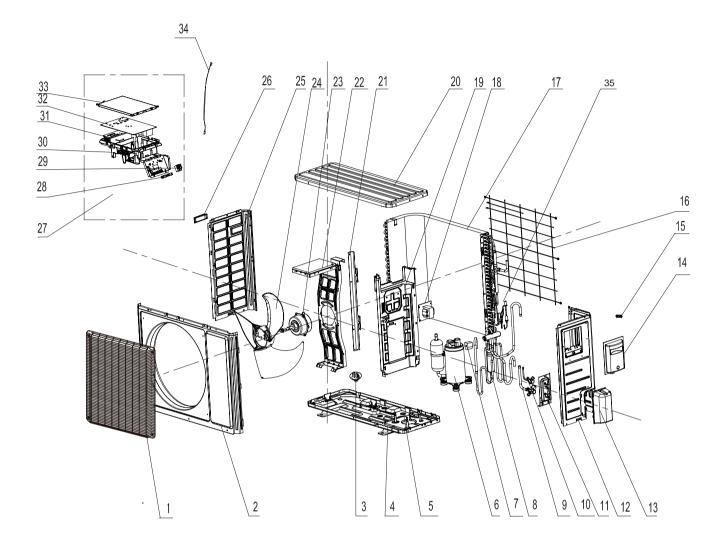
NO.	Description
1	Coping
2	Supporting Board(Condenser)
3	4-Way Valve
4	Sponge(Condenser)
5	Temperature Sensor Support
6	Condenser Assy
7	Capillary Sub-assy
8	Sensor Insert
9	Right Side Plate
10	Earthing Plate Sub-assy
11	Wire Clamp
12	Handle Assy
13	Silencer
14	Cut-off valve 1/4(N)
15	Cut-off valve 3/8(N)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



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

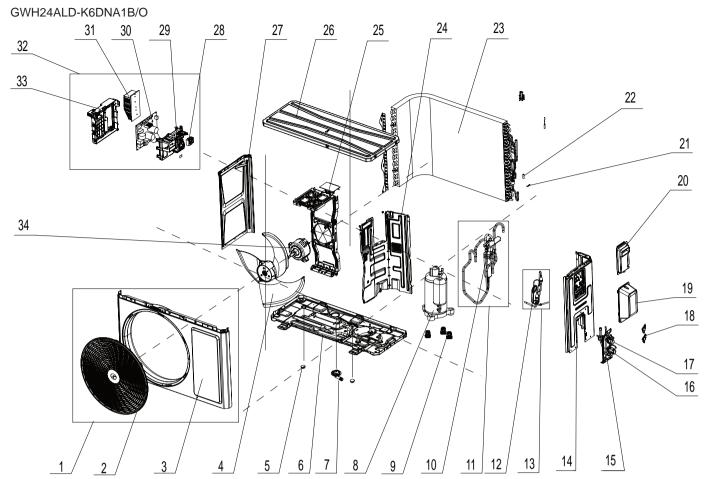
NO.	Description
1	Top Cover Assy
2	Support Board(Condenser)
3	4-Way Valve
4	Sponge(Condenser)
5	Temperature Sensor Support
6	Condenser Assy
7	Temp Sensor Sleeving
8	Sensor Insert
9	Right Side Plate
10	Earthing Plate Sub-Assy
11	Wire Clamp
12	Electric Expansion Valve Sub-Assy
13	Electric Expansion Valve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

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



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

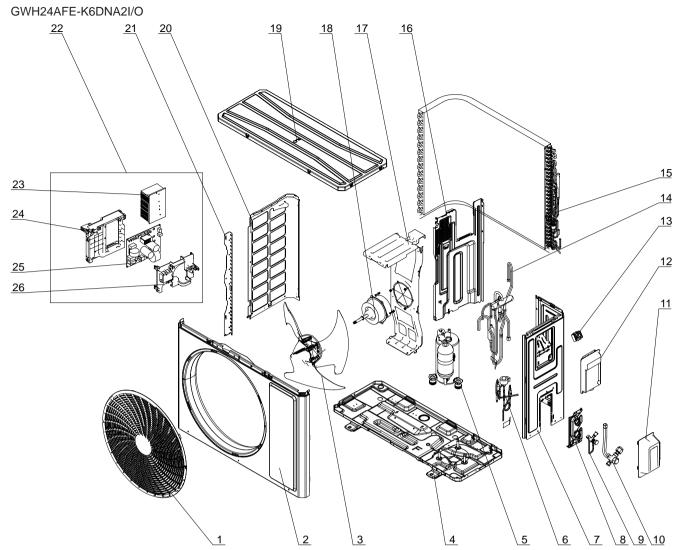
No.	Description
1	Front Grill
2	Front Panel
3	Drainage Connecter
4	Chassis Sub-assy
5	Drainage Joint
6	Compressor and Fittings
7	Magnet Coil
8	4-Way Valve Assy
9	Cut off Valve Assy
10	Cut off Valve Sub-Assy
11	Valve support assy
12	Right Side Plate
13	Valve Support
14	Handle
15	Wire Clamp
16	Rear Grill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



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

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

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

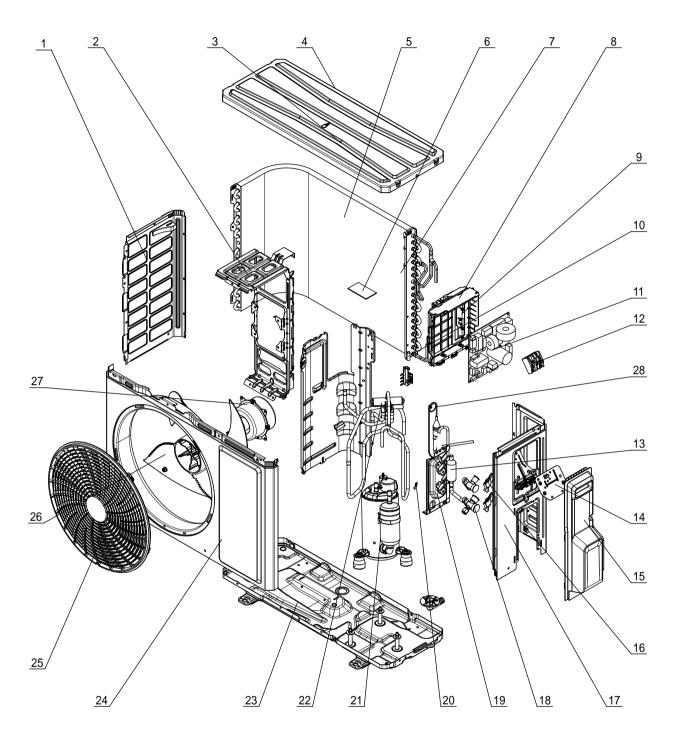


The component is only for rererence;please refer to the actual product

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

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

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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
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(N)
19	Valve Support
20	Sensor Insert
21	Compressor and Fittings
22	4-Way Valve Assy
23	Chassis Sub-assy
24	Cabinet
25	Front Grill
26	Axial Flow Fan
27	Fan Motor
28	Capillary Sub-assy
0	tale many materials and a many manter interest

## **11. Removal Procedure**

### **11.1 Removal Procedure of Indoor Unit**



Caution: discharge the refrigerant completely before removal.

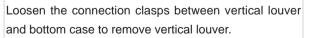
Step		Procedure
1.Remove filter assembly		Front panel
	Open the front panel. Push the left filter and right filter until they are separate from the groove on the front panel. Remove the left filter and right filter respectively.	Left filter Groove Right filter
2. Ren	nove horizontal louver	
	Push out the axile bush on horizontal louver. Bend the horizontal louver with hand and then separate the horizontal louver from the crankshaft of step motor to remove it.	Horizontal louver Location of step motor
3. Ren	nove panel	Front panel
а	<ol> <li>A1/B6/C2/C4 display: Screw off the 2 screws that are locking the display board. Separate the display board from the front panel.</li> <li>A2/A3 display: Screw off the 2 screws that are locking the display board. This display can be disassembled only after removing the front case (refer to step 5 of disassembly).</li> <li>A5/B2/B4/B8/C6/D2 display: Screw off the 2 screws that are locking the display board.</li> </ol>	Display
b	Separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.	Panel rotation Groove

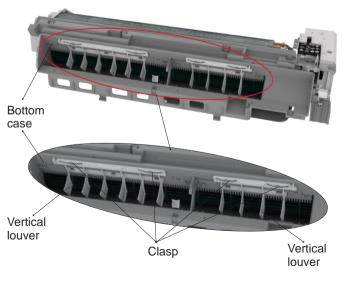
Step		Procedure
	Remove the screws fixing detecting plate and remove detecting plate(wifi). Remove the screws fixing electric box cover 2 and remove electric box cover 2.	
5. Rem	nove front case sub-assy	Screw
a	Remove the screws fixing front case. Note: 1.Open the screw caps before removing the screws around the air outlet. 2.The quantity of screws fixing the front case sub-assy is different for different models.	Front case sub-assy

Loosen the connection clasps between front case subassy and bottom case. Lift up the front case sub-assy and take it out.

### 6. Remove vertical louver

b





Screw

Clasp

Front case sub-assy

Step		Procedure	
7. Rer	nove electric box assy	Screw	
а	Loosen the connection clasps between shield cover of electric box sub-assy and electric box, and then remove the shield cover of electric box sub-assy. Remove the screw fixing electric box assy .	Shield cover of electric box sub-assy Indoor tube	Clasps Electric box
b	<ol> <li>Take off the water retaining sheet. Remove the cold plasma generator byscrewing off the locking screw on the generator.</li> <li>Take off the indoor tube temperature sensor.</li> <li>Screw off 1 grounding screw.</li> <li>Remove the wiring terminals of motor and stepping motor.</li> <li>Remove the electric box assy.</li> </ol>	Grounding screw sensor Electric b Cold plasma generator Screw Water retaining sheet	Wiring terminal of motor Wiring terminal of stepping motor
С	Twist off the screws that are locking each lead wire and rotate the electric box assy. Twist off the screws that are locking the wire clip. Loosen the power cord and remove its wiring terminal. Lift up the main board and take it off.	Screw Main board	V
d	Instruction: Some wiring terminal of this product is with lock catch and other devices. The pulling method is as below: 1.Remove the soft sheath for some terminals at first, hold the circlip and then pull out the terminals. 2.Pull out the holder for some terminals at first (holder is not available for some wiring terminal), hold the connector and then pull the terminal.	Wire clip circlip soft sheath	holder

Step		Procedure
7.Rem	ove evaporator assy	Screw Evaporator assy
а	Remove 3 screws fixing evaporator assy.	
b	At the back of the unit, remove the screw fixing connection pipe clamp and then remove the connection pipe clamp.	Connection pipe clamp Screw
с	First remove the left side of the evaporator from the groove of bottom case and then remove the right side from the clasp on the bottom case.	Grove Bottom case Clasp Evaporator assy
d	Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.	Connection pipe

### Installation and Maintenance

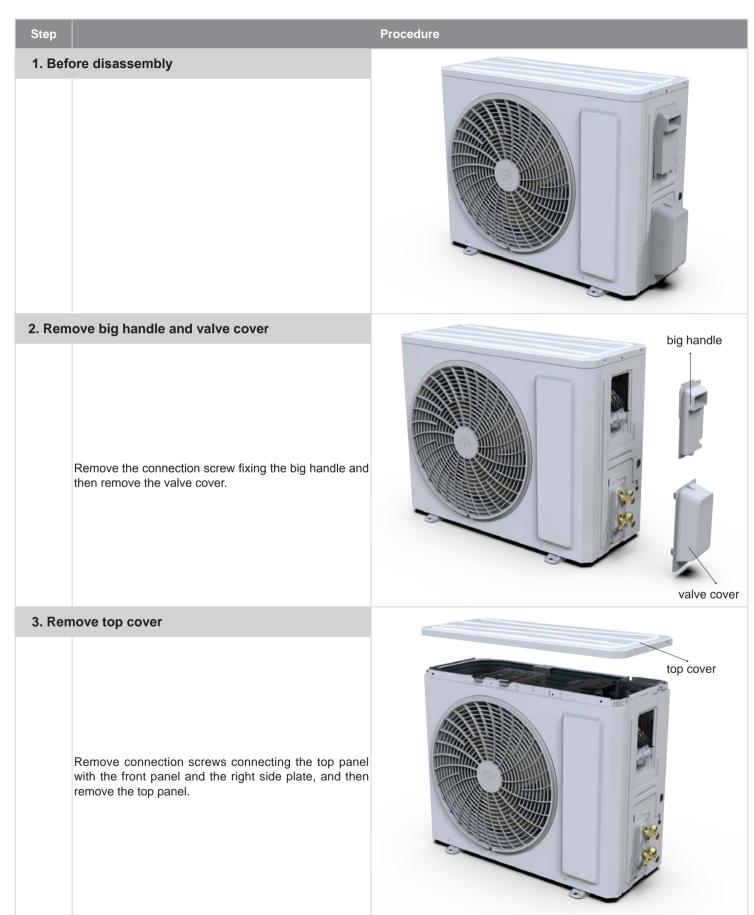
Step		Procedure
9. Ren	nove motor and cross flow blade	
а	Remove the screws fixing motor clamp and then remove the motor clamp.	Screws Motor clamp
b	Remove the screws at the connection place of cross flow blade and motor; lift the motor and cross flow blade upwards to remove them. Remove the bearing holder sub-assy. Remove the screw fixing step motor and then remove the step motor.	

### **11.2 Removal Procedure of Outdoor Unit**



Caution: discharge the refrigerant completely before removal.

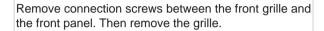
GWH12AFC-K6DNA2F/O



### Step

### 4. Remove grille

Procedure





### 5. Remove front panel

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



### 6. Remove right side plate and left side plate

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

Step	Procedure
7. Remove axial flow blade	
Remove the nut on the blade and then remove the axia flow blade.	axial flow blade nut

motor support

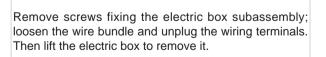
motor

### 8. Remove motor and motor support

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

and lift the motor support to remove it.

### 9. Remove Electric Box Assy





Procedure

### 10. Remove isolation sheet

Remove the screws fixing the isolation sheet and then remove the isolation sheet.



### 11. Remove compressor

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

### GWH09AFC-K6DNA2F/O GWH18ALD-K6DNA1A/O GWH12ATBXB-K6DNA1D/O



### Step

### 4. Remove front panel assy



Procedure

### 5. Remove right side plate assy

remove the front panel assy.

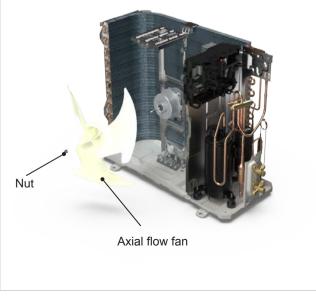
Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal board, remove the terminal board, rescrew the screws fixing the right plate, and remove the right side plate assy.

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



### 6. Remove axial flow fan

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



# Step Procedure 7. Remove motor support and motor Motor support Remove the screws fixing the motor support and lift the Motor motor support to remove it. Remove the screws fixing the motor and then remove the motor. 8. Remove electric box assy 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 Clapboard assy Remove the screws fixing the clapboard assy and then remove the clapboard assy.

### Procedure

### 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

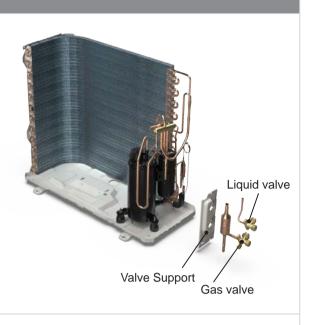
Unsolder the welding joints connecting capillary, and then remove it.

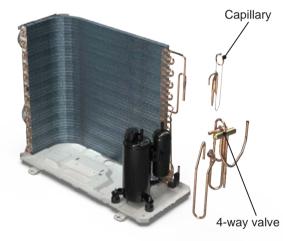
Unsolder the welding joints connecting the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the 4-way valve.Cooling only unit removes Discharge Tube and Inhalation Tube. Note:

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

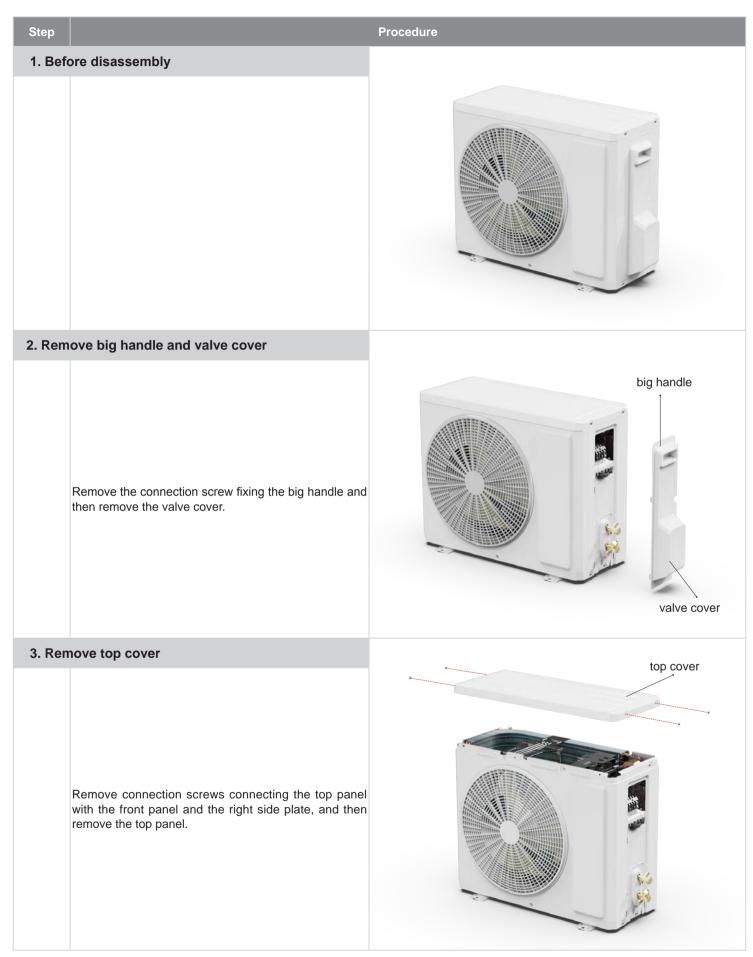
Remove the 3 foot nuts on the compressor and then remove the compressor.







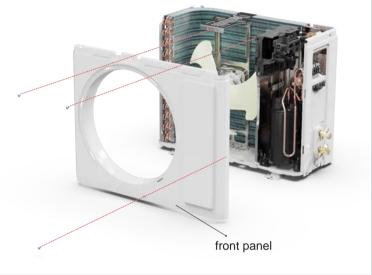
### GWH07QA-K6DNC4A/O GWH09AGA-K6DNA1A/O GWH12AGB-K6DNA1A/O GWH09AGB-K6DNA1B/O



# Step Procedure 4. Remove grille grille Remove connection screws between the front grille and the front panel. Then remove the grille. grille

### 5. Remove front panel

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



### 6. Remove right side plate

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



Step		Procedure
7. Remove	ve axial flow blade	
	move the nut on the blade and then remove the axial $w$ blade.	axial flow blade

motor support

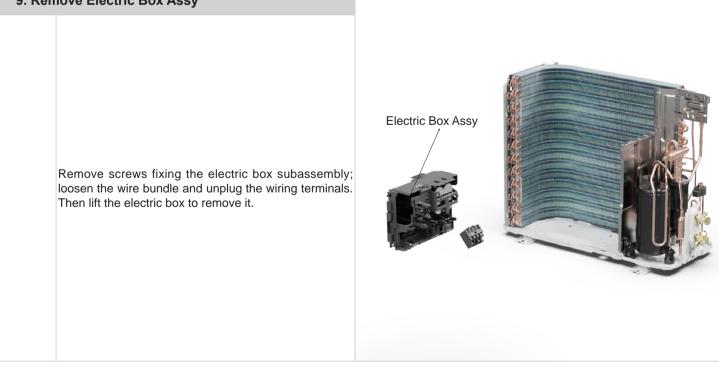
motor

### 8. Remove motor and motor support

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

and lift the motor support to remove it.

### 9. Remove Electric Box Assy

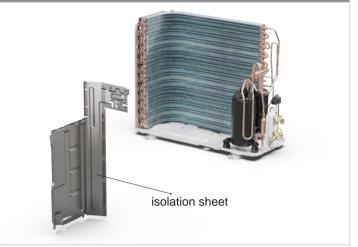


# Step

Procedure

# 10. Remove isolation sheet

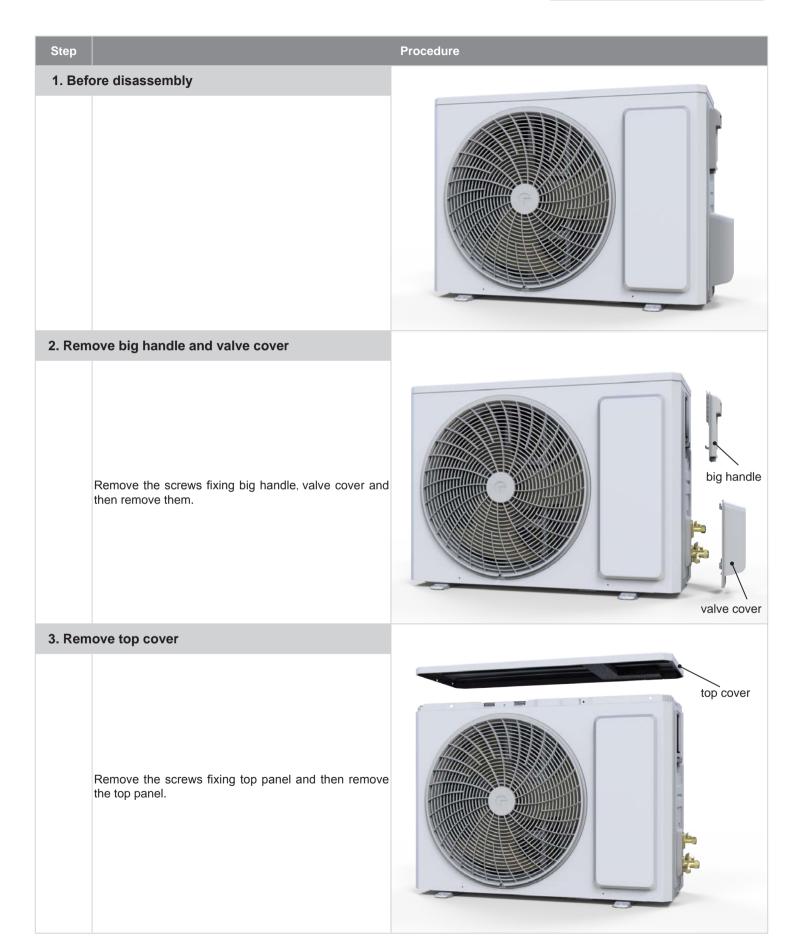
Remove the screws fixing the isolation sheet and then remove the isolation sheet.



# 11. Remove compressor

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





# Step

# 4. Remove front panel assy

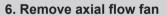
Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.



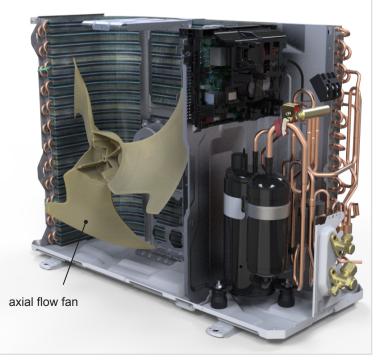
Procedure

# 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.



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



right side plate

# Step Procedure 7. Remove electric box assy Image: Comparison of the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed. Image: Comparison of the clapboard are removed and the electrical box assy are removed.

# 8. Remove motor

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

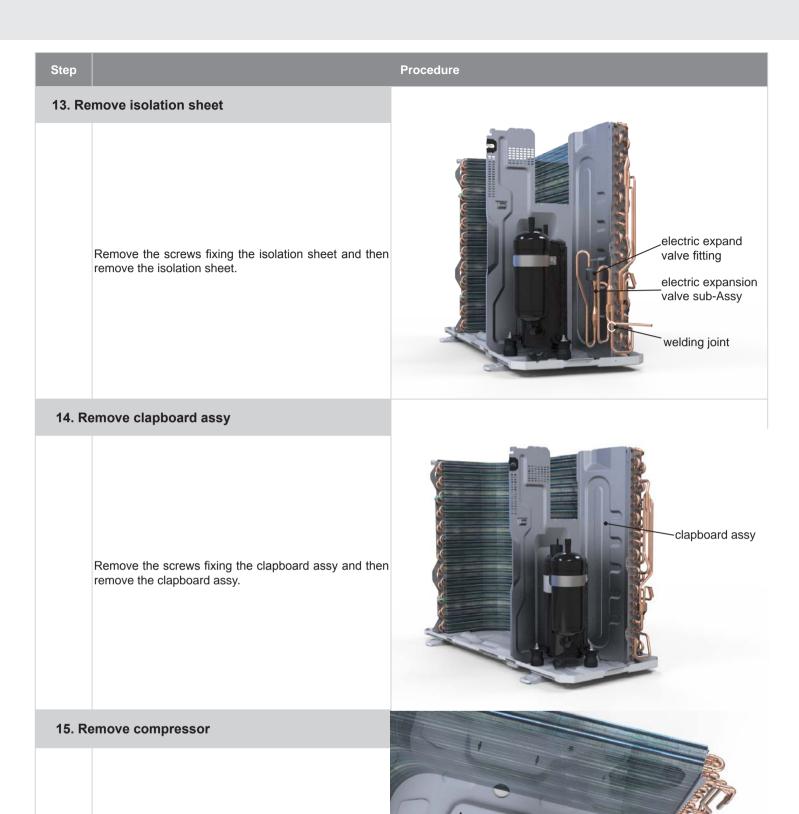


# 9. Remove motor support

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



Step		Procedure		
10. Re	move 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.	welding joint liquid valve gas valve		
11. Re	move valve suppprt			
	Remove the screws fixing valve support, then remove the valve support.	valve supprt		
12. Re	emove 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.	4-way valve assy		

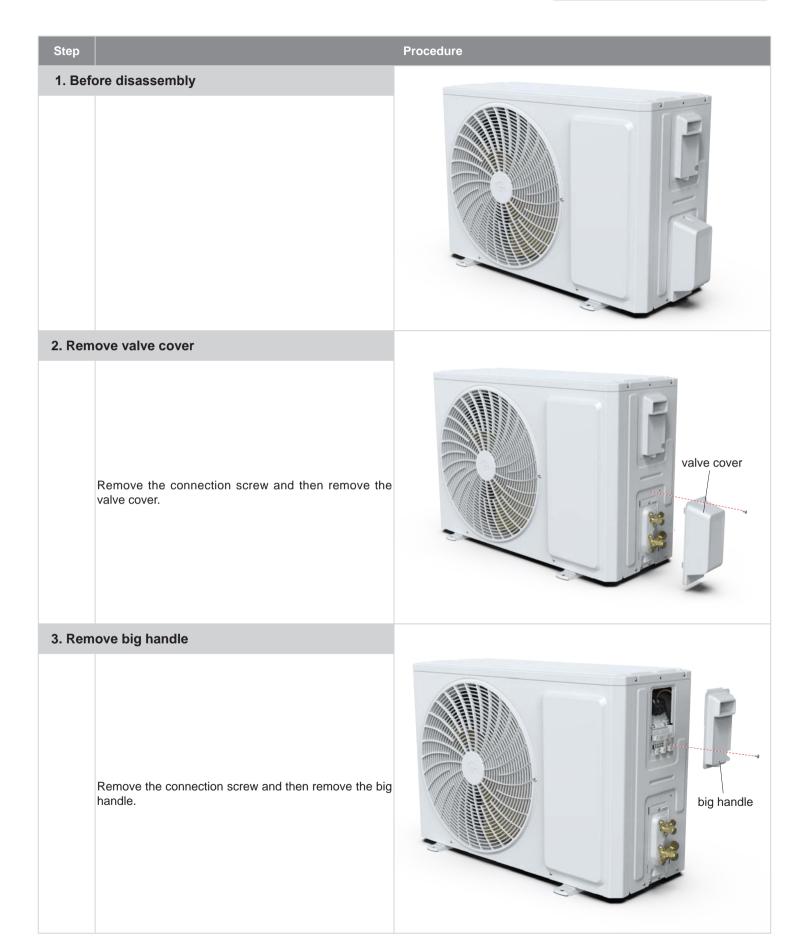


Remove the 3 foot nuts on the compressor and then remove the compressor.

nut

compressor

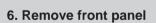




# Step Procedure 4. Remove top cover Image: Contract of the contr

# 5. Remove grille

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



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



grille

Step		Procedure
7. Ren	nove right side plate	right side plate
	Remove connection screws connecting the right side plate with the valve support and the electric box. Then remove the right side plate.	
8. Ren rem	nove the nut and gasket on the blade and then ove the axial flow blade	
	Remove the nut and gasket on the blade and then remove the axial flow blade.	
9. Rei	move motor and motor support	
	Remove the tapping screws fixing the motor and disconnect the leading wire insert of the motor. Then remove the motor. Remove the tapping screws fixing the motor support and lift the motor support to remove it.	

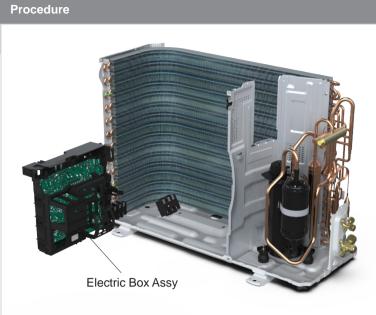
motor

motor support

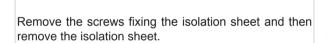
# **10. Remove Electric Box Assy**

Step

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



# 11. Remove isolation sheet



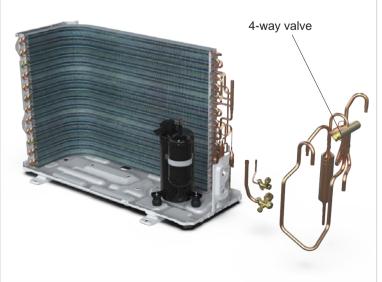


# 12. Remove 4-way valve assy and cut-off valve

Unsolder the welding joints connecting the 4-way valve assy and cut-off valve, remove the 4-way valve and cutoff valve.

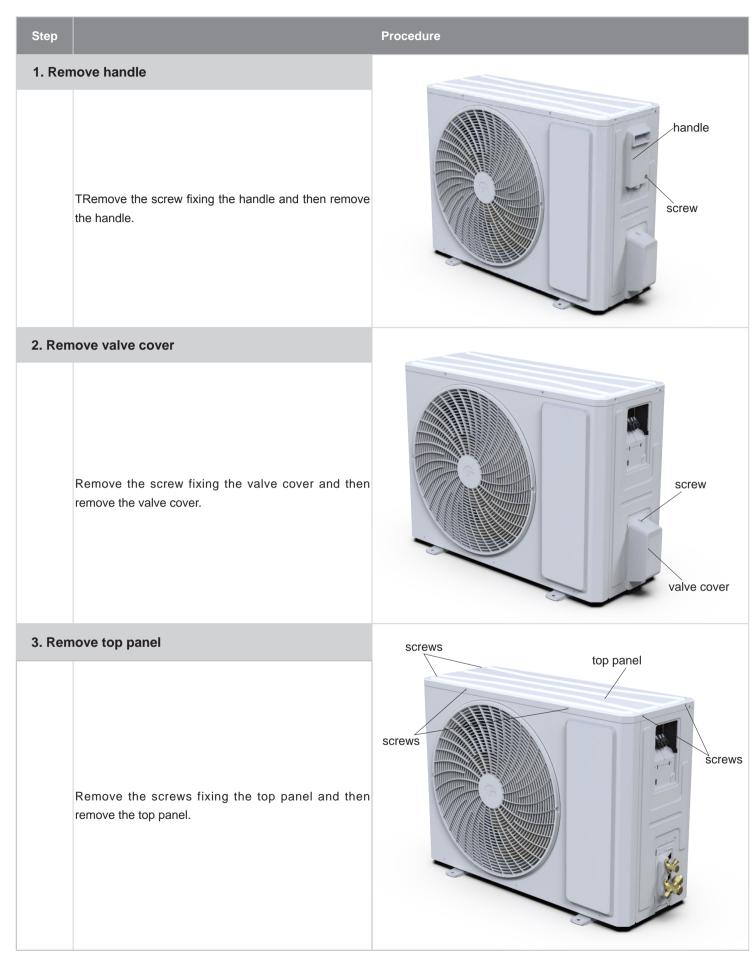
Note:

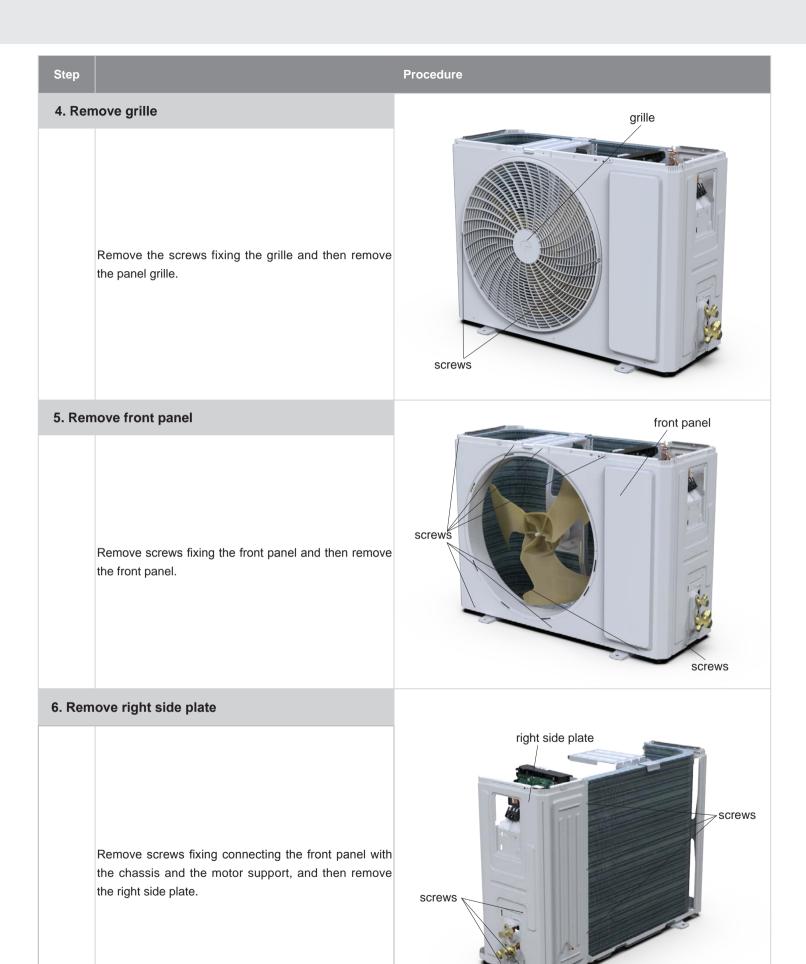
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

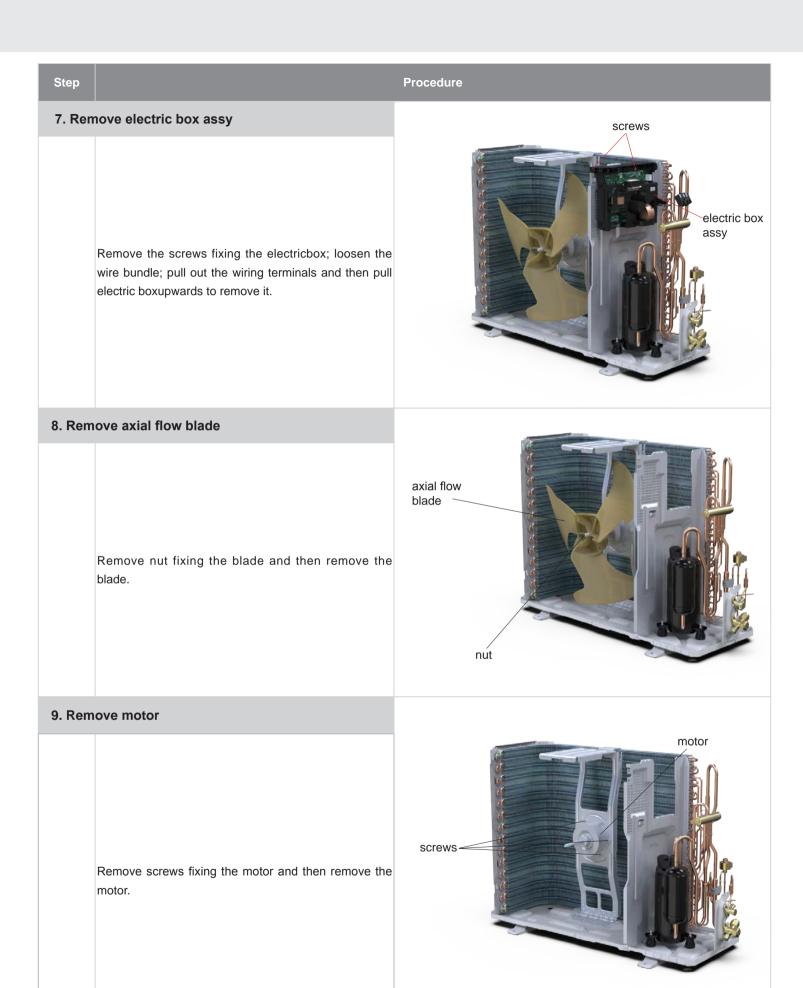


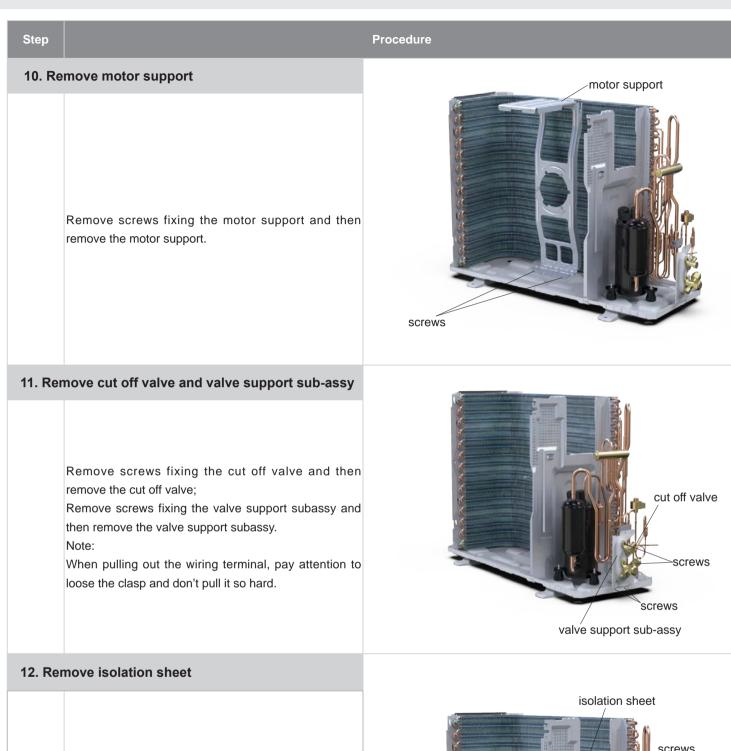
Step		Procedure
13. Re	Remove the screws fixing the left side plate and then remove the left side plate.	
14. R	emove condenser sub-assy	
	Remove the screws fixing the Remove condenser sub- assy and then remove the Remove condenser sub- assy.	condenser sub-assy
15. R	emove compressor	compressor
	Remove the 3 foot nuts on the compressor and then remove the compressor.	foot nuts

# GWH24AFE-K6DNA2I/O









Remove the screws fixing the isolation sheet and then remove the isolation sheet.



### Step

Procedure

# 13. Remove left side plate

Remove the screws fixing the left side plate and the chassis, and then remove the left side plate.

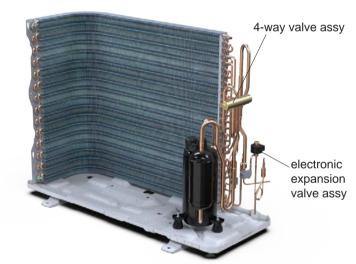


# 14. Remove 4-way valve assy and electronic expansion valve assy

Unsolder the welding joints connecting electronic expansion valve assy the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the electronic expansion valve assy and 4-way valve.

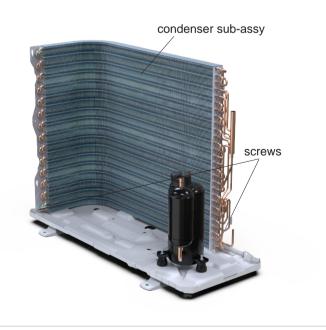
### Note:

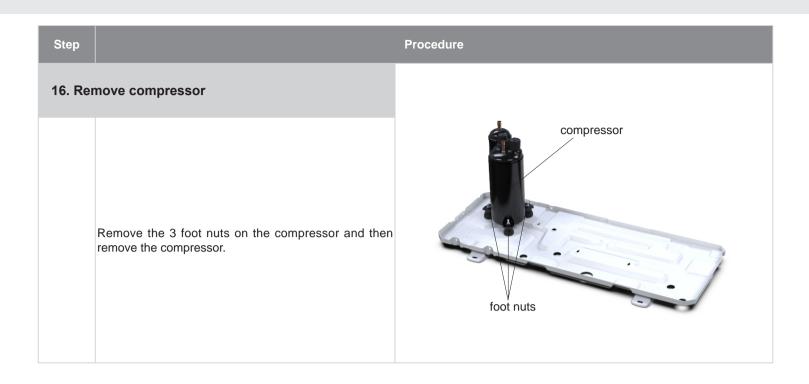
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



# 15. Remove condenser sub-assy

Remove the screws fixing the condenser and chassis, and then lift the condenser upwards to remove it.





# GWH18QD-K6DNA1D/O GWH24QE-K6DNA1E/O



Caution: discharge the refrigerant completely before removal.

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

### Installation and Maintenance

Step		Procedure
b	Remove the screws connecting the outer case with motor support, isolation plate and chassis; lift the outer case upwards; loosen the clasps of outer case with right side plate and left side plate, and then remove the outer case.	
3. Rer	nove right&left side plate	
а	Remove the screws connecting the right side plate with electric box assy, valve support, chassis and condenser side plate, and then remove the right side plate.	Right side plate
b	Remove the screws connecting the left side plate with chassis, and then remove the left side plate.	

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

### Step

Procedure

### 7. Remove isolation plate

Remove the 2 screws connecting the isolation plate and condenser side plate; remove the 3 screws connecting the isolation plate and chassis, and then remove the isolation plate. isolation plate

# 8. Remove 4-way valve assy and electronic expansion valve assy

Unsolder the welding joints connecting electronic expansion valve assy the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the electronic expansion valve assy and 4-way valve. Note:

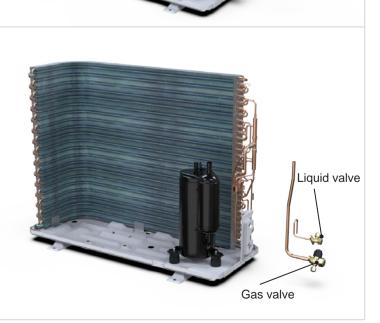
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

### 9.Remove liquid valve and gas valve

Unsolder the welding joint connecting the valve with capillary and condenser; unsolder the welding joint connecting the gas valve and air-return pipe; remove the 2 screws fixing the gas valve to remove the gas valve.

Unsolder the welding joint connecting the liquid valve and Y-shaped pipe; remove the 2 screws fixing the liquid valve to remove the liquid valve. Note:

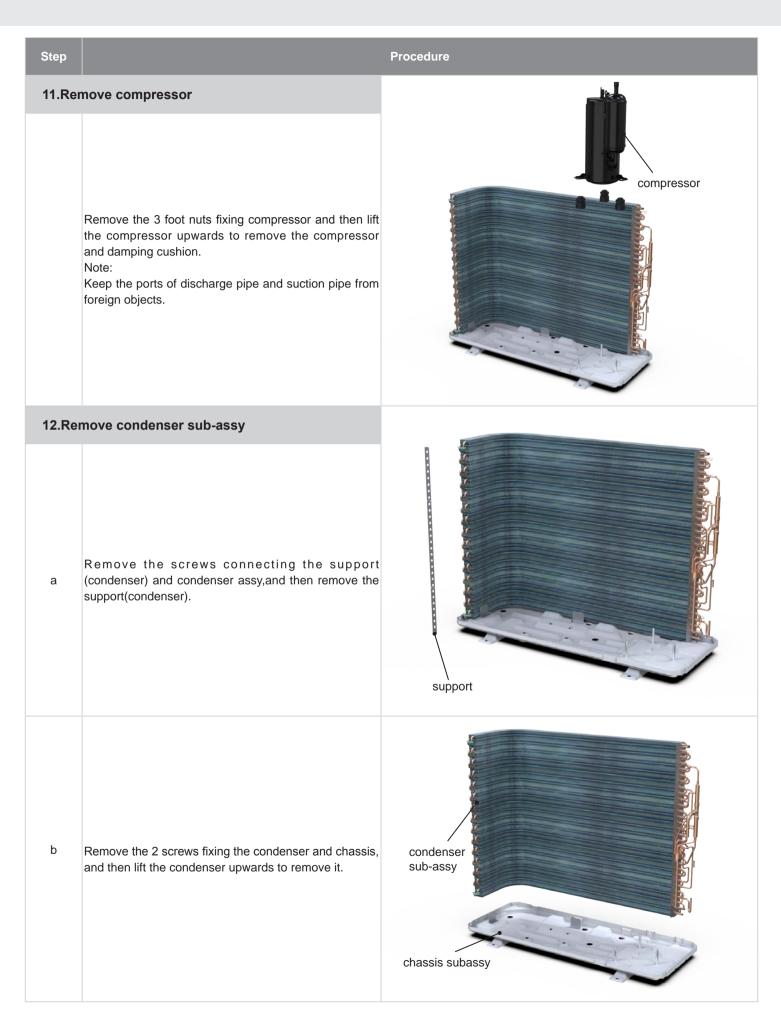
Before unsoldering the welding joint, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

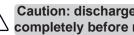


4-way valve assy

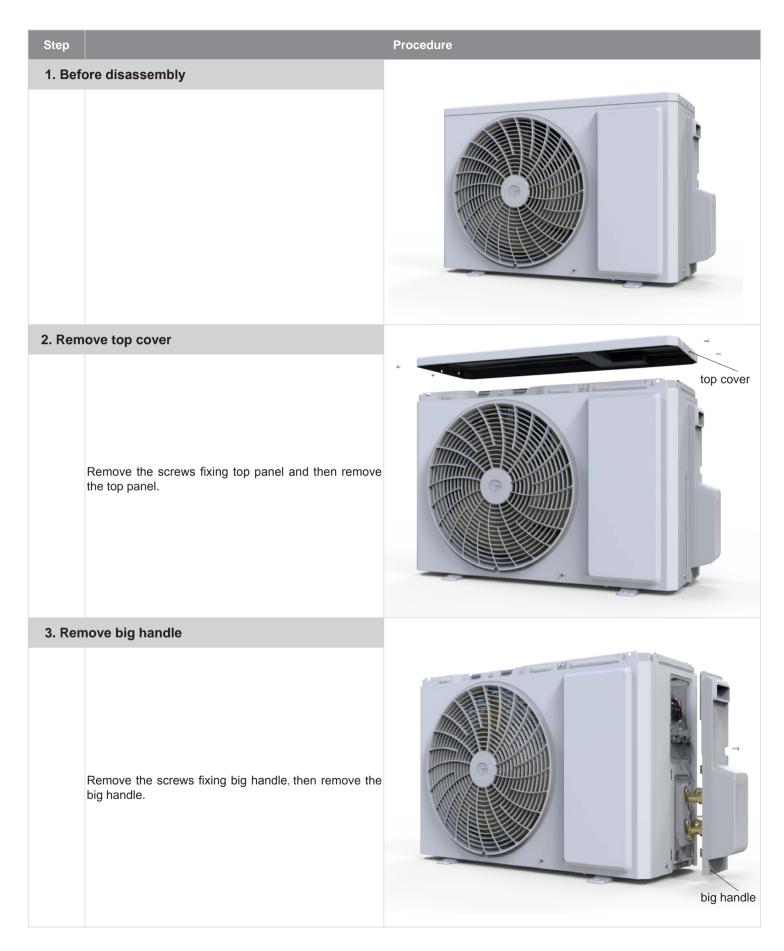
electronic expansion

valve assy





Caution: discharge the refrigerant completely before removal.



Step		Procedure
4. Ren	nove 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. Rem	ove 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.	Right Side Plate Assy
6. Ren	nove valve suppprt	
	Remove the valve support bolck, remove the screws fixing valve support, remove the screws fixing the liquid valve and gas valve then remove the valve support.	valve supprt Valve Support Block

Step		Procedure
7. Rer	nove gas valve and 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.	liquid val
8. Ren	nove Capillary Sub-assy	~
	Unsolder the welding joint connecting the capillary sub- assy and then remove the capillary sub-assy.	welding joint Capillary Sub-assy
9. Rer	nove electric box assy	
	Unplug the terminals, unscrew 1 screw that secures the	

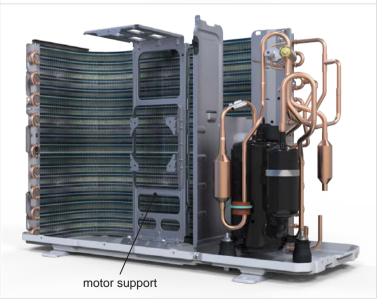
Unplug the terminals, unscrew 1 screw that secures the electrical box assy, raise it to the top right and remove the electrical box.

Electric Box Assy

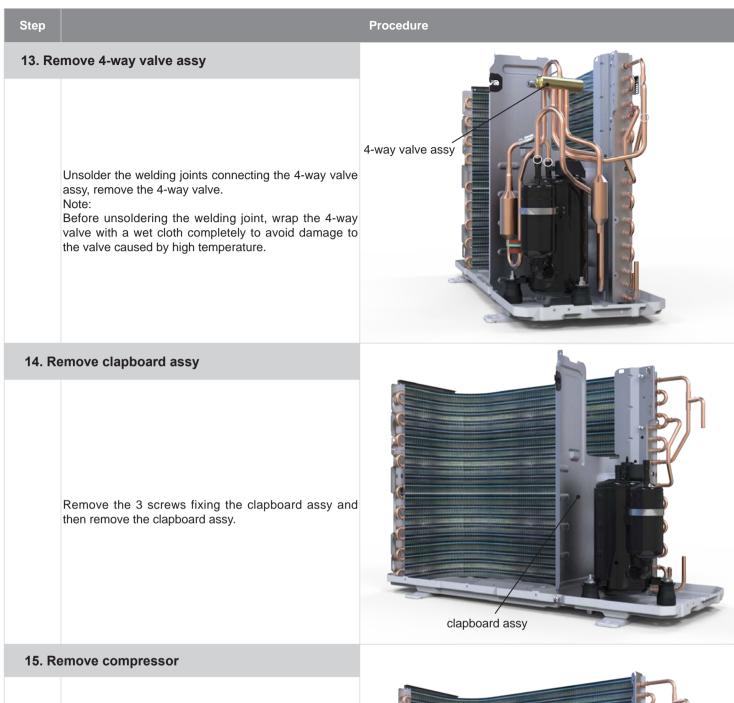
# Step Procedure 10. Remove axial flow fan Remove the nut on the fan and then remove the axial flow fan. axial flow fan 11. Remove motor Remove the screws fixing the motor and then remove the motor.

# 12. Remove motor support

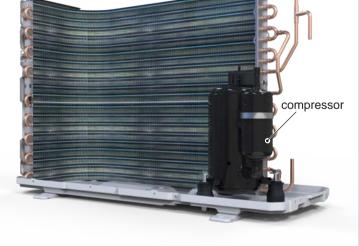
Remove the screws fixing the motor support and lift the motor support to remove it.



motor



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



# Appendix

# **Appendix 1: Reference Sheet of Celsius and Fahrenheit**

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

# Set temperature

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

# Ambient temperature

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

# **Appendix 2: Configuration of Connection Pipe**

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

2.Min length of connection pipe for the unit with standard connection pipe of 5m, there is no limitation for 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								
Diameter of c	onnection pipe	Indoor unit throttle	Indoor unit throttle Outdoor u					
Liquid pipe	Liquid pipe Gas pipe		Cooling only(g/m)	Cooling and heating(g/m)				
1/4"	3/8" or 1/2"	16	12	16				
1/4" or 3/8"	5/8" or 3/4"	40	12	40				
1/2"	3/4" or 7/8"	80	24	96				
5/8"	1" or 1 1/4"	136	48	96				
3/4"	/	200	200	200				
7/8"	/	280	280	280				

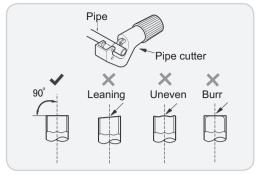
# **Appendix 3: Pipe Expanding Method**

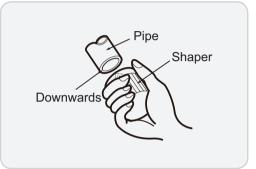
# **⚠** Note:

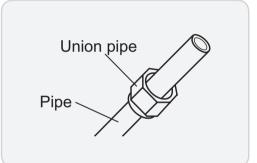
Improper pipe expanding is the main cause of refrigerant leakage.Please expand the pipe according to the following steps:

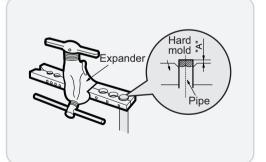
A:Cut the pip

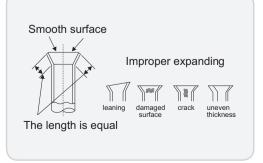
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.











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:

A(mm)						
Max	Min					
1.3	0.7					
1.6	1.0					
1.8	1.0					
2.4	2.2					
	Max 1.3 1.6 1.8					

### F:Inspection

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

# Appendix 4: List of Resistance for Temperature Sensor

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

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

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

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

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

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



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