



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

# **Table of Contents**

Part   : Technical Information	1
1. Summary	1
2. Specifications 2.1 Specification Sheet 2.2 Capacity Variation Ratio According to Temperature	<b>6</b> 
2.3 Cooling and Heating Data Sheet in Rated Frequency	50
3. Outline Dimension Diagram 3.1 Indoor Unit. 3.2 Outdoor Unit.	<b>51</b> 51
4. Refrigerant System Diagram	56
5.1 Wiring Diagram 5.2 PCB Printed Diagram	<b>57</b> 
<ul> <li>6. Function and Control</li> <li>6.1 Remote Controller Introduction</li> <li>6.2 Brief Description of Models and Functions</li> <li>6.3 GREE+ App Operation Manual</li> <li>6.4 Ewpe Smart App Operation Manual</li> </ul>	<b>77</b> <b>77</b> 
Part II : Installation and Maintenance	102
7. Notes for Installation and Maintenance	102
8.1 Installation Dimension Diagram 8.2 Installation Parts-checking	<b>107</b> 107 
8.4 Electric Connection Requirement	109 109

8.5 Installation of Indoor Unit	110
8.6 Installation of Outdoor unit	112
8.7 Vacuum Pumping and Leak Detection	113
8.8 Check after Installation and Test operation	114
9. Maintenance	115
9.1 Error Code List	115
9.2 Procedure of Troubleshooting	120
9.3 Troubleshooting for Normal Malfunction	134
10. Exploded View and Parts List	136
10.1 Indoor Unit	136
10.2 Outdoor Unit	150
11. Removal Procedure	162
11.1 Removal Procedure of Indoor Unit	162
11.2 Removal Procedure of Outdoor Unit	167
Appendix	205
Appendix 1: Reference Sheet of Celsius and Fahrenheit	205
Appendix 2: Configuration of Connection Pipe	205
Appendix 3: Pipe Expanding Method	206
Appendix 4: List of Resistance for Temperature Sensor	207

# 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

	88.8 <b>o</b>	
<u> </u>		1

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	Madal	Model Product code Indoor model		Indoor product	Outdoor model	Outdoor product	Remote
INU	MOUEI	FIDUUCLEOUE	Indoor model	code	Outdoor model	code	Controller
1	GWH07QA-K6DNC4A	CB444013200	GWH07QA-K6DNC4A/I	CB444N13200	GWH07QA-K6DNC4A/O	CB444W13200	
2		CB434020401		CB434N20401			
3	GVINU9QA-KODIND4A	CB434020402	GWH09QA-K0DINB4A/I	CB434N20402			
4		CB432025402		CB432N25402			
5	GWH09QA-K6DNB2A	CB432025401	GWH09QA-K6DNB2A/I	CB432N25401			
6	GWH09QA-K6DNB8A	CB438012600	GWH09QA-K6DNB8A/I	CB438N12600	GWH09AGA-K6DNA1A/O	CB385W01000	
7	GWH09QA-K6DNC2A	CB439018200	GWH09QA-K6DNC2A/I	CB439N18200			
8	GWH09QA-K6DNC4A	CB444013800	GWH09QA-K6DNC4A/I	CB444N13800			
9	GWH09QA-K6DNF4A	CB470008100	GWH09QA-K6DNF4A/I	CB470N08100			YAN1F6
10		CB432025502		CB432N25502			(WiFi)
11	GWH12QB-K6DNB2A	CB432025503	GWH12QB-K6DNB2A/I	CB432N25503			(******)
12		CB434020501		CB434N20501			
12		CB438012700		CR439NI12700			
13		CD430012700	GWITIZQB-KODNBOA/I	CD430N12700	GWH12AGB-K6DNA1A/O	CB385W01700	
14		CB439016300		CB439IN16300			
15	GWHI2QB-K6DNC4A	CB444013900	GWH12QB-K6DNC4A/I	CB444N13900			
16	GWH12QB-K6DNE4A	CB470008000	GWH12QB-K6DNE4A/I	CB470N08000			
17	GWH12QB-K6DND8A	CB459010700	GWH12QB-K6DND8A/I	CB459N10700			
18	GWH12QBXB-K6DNC8D	CB456010800	GWH12QBXB-K6DNC8D/I	CB456N10800	GWH12ATBXB-K6DNA1D/O	CB574W00800	
19	GWH09QC-K6DNB2F	CB432026000	GWH09QC-K6DNB2F/I	CB432N26000			
20	GWH09QC-K6DNC4F	CB444013400	GWH09QC-K6DNC4F/I	CB444N13400		CB363W02900	
21	GWH09QC-K6DND2F	CB461007700	GWH09QC-K6DND2F/I	CB461N07700			
22	GWH09QC-K6DNA2F	CB426008501	GWH09QC-K6DNA2F/I	CB426N08500			
23	GWH09QC-K6DNA5F	CB425018001	GWH09QC-K6DNA5F/I	CB425N18000			
24	GWH09QC-K6DNB2F	CB432026001	GWH09QC-K6DNB2F/I	CB432N26001			
25		CB434022701	GWH09QC-K6DNB4F/I	CB434N22700			
20		CB435014001		CB435N14000	GWHU9AFC-K6DNA2F/O		
21		CB430014301		CB430N14300		CB363W02901	
20	GWHU9QC-KODNCOF	CB443010801	GVINU9QC-KODNCOF/I	CB443N10800			
30		CB461007707	-	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			(WiFi)
36	GWH12QC-K6DNB2F	CB432026102	GWH12QC-K6DNB2F/I	CB432N26102			
37	GWH12QC-K6DNB4F	CB434022500	GWH12QC-K6DNB4F/I	CB434N22500			
38	GWH12QC-K6DNB6F	CB435014100	GWH12QC-K6DNB6F/I	CB435N14100			
39	GWH12QC-K6DNB8F	CB438014100	GWH12QC-K6DNB8F/I	CB438N14100		CD262W02600	
40	GWH12QC-K6DNC6F	CB443010900	GWH12QC-K6DNC6F/I	CB443N10900		CB303W03000	
41	GWH12QC-K6DND2F	CB461007502	GWH12QC-K6DND2F/I	CB461N07502			
42		CB461007504		CB461N07504	GWITIZAI C-RODINAZE/O		
43	GWH12QC-K6DND2F	CB461007503	GWH12QC-K6DND2F/I	CB461N07503			
44		CB461007500		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			
49	GWH12QCXB-K6DNB6F	CB435016701	GWH12QCXB-K6DNB6F/I	CB435N16700			

No	Model	Product code	Indoor model	Indoor product	Outdoor model	Outdoor product	Remote
50		CB426008801	GW/H18OD-K6DNA2I/I	CB426N08800		coue	Controller
51	GWH180D-K6DNA5I	CB425016301	GWH180D-K6DNA5I/I	CB425N16300			
52	GWH180D-K6DNB2I	CB432026201	GWH180D-K6DNB2I/I	CB432N26201			
53	GWH180D-K6DNB4I	CB434022401	GWH180D-K6DNB4I/I	CB434N22400			
54	GWH180D-K6DNB6I	CB435014201	GWH180D-K6DNB6I/I	CB435N14200			
55	GWH180D-K6DNB8I	CB438014001	GWH180D-K6DNB8I/I	CB438N14000			
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			
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			
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		000000000000000000000000000000000000000	
79	GWH24QE-K6DNC6I	CB443010701	GWH24QE-K6DNC6I/I	CB443N10700		CB3637704101	
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		CD205W01100	
86	GWH07QAXA-K6DND8D	CB459010800	GWH07QAXA-K6DND8D/I	CB459N10800	GWHU/AGA-KODINA IA/O	CB303001100	
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)
92	GWH18QDXB-K6DND8E	CB459009602	GWH18QDXB-K6DND8E/I	CB459N09602			
93	GWH24QD-K6DNC2B	CB439018500	GWH24QD-K6DNC2B/I	CB439N18500			
94	GWH24QD-K6DNB2B	CB432026700	GWH24QD-K6DNB2B/I	CB432N26700		CB513\W/02200	
95	GWH24QD-K6DNC4B	CB444013600	GWH24QD-K6DNC4B/I	CB444N13600		555154402200	
96	GWH24QDXE-K6DND8B	CB459009501	GWH24QDXE-K6DND8B/I	CB459N09501			

# 2. Specifications

# 2.1 Specification Sheet

Model			GWH07QA-K6DNC4A
Product Code	9		CB444013200
_	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Cuppiy	Phases		1
Power Suppl	y Mode		Outdoor
Cooling Capa	acity	W	2200
Heating Capa	acity	W	2300
Cooling Pow	er Input	W	600
Heating Pow	er Input	W	590
Cooling Curr	ent Input	А	2.9
Heating Curr	ent Input	А	2.9
Rated Input		W	1500
Rated Coolin	g Current	А	6.0
Rated Heatin	g Current	А	7.5
Air Flow Volu	me	m³/h	500/420/390/300
Dehumidifyin	g Volume	L/h	0.80
EER	-	W/W	3.67
COP		W/W	3.90
SEER			6.5
SCOP (Warn	ner/Average/Colder)		5.1/4.0/-
Application Area		m²	12-18
	Model		GWH07QA-K6DNC4A/I
	Product Code		CB444N13200
	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
	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	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		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 I RA	Α	/
	Compressor BLA	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
	Condensor Form	0	Aluminum Ein coppor Tubo
	Condenser Pine Diameter	mm	
	Condenser Pipe Diameter		ψ/ 1.1.4
	Condenser Coil Length (LXDX/M)		1-1.4
	Condenser Coll Length (LXDXW)	mm	7002 19.052528
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	VV	30
	Fan Motor RLA	A	0.40
Unit	Fan Motor Capacitor	μŀ	1
-	Heater Power Input	W	<i>I</i>
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (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	Outer Diameter Gas Pipe	inch	3/8
Ріре	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection nine applies metric diameter	nr i i i i i i i i i i i i i i i i i i i	-

Note: The connection pipe applies metric diameter.

Model			GWH07QA-K6DNB2D GWH07QAXA-K6DND8D
Product Code	3		CB432027200 CB459010800
_	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	acity	W	2400
Cooling Powe	er Input	W	590
Heating Powe	er Input	W	590
Cooling Curre	ent Input	Α	2.9
Heating Curr	ent Input	Α	2.9
Rated Input		W	1300
Rated Coolin	g Current	Α	5
Rated Heatin	g Current	Α	6
Air Flow Volu	me	m³/h	520/470/420/290
Dehumidifyin	g Volume	L/h	0.6
EER		W/W	3.73
COP		W/W	4.07
SEER		W/W	6.6
SCOP(Avera	ge/WarmerColder)	W/W	4/4.8/-
Application A	rea	m <sup>2</sup>	10-16
	Model		GWH07QAXA-K6DND8D/I GWH07QA-K6DNB2D/I
	Product Code		CB432N27200 CB459N10800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98×507
	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	0.15
	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	510×22.8×266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	Α	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
	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		GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code		CB385W01100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXF-N075zC170
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	3
	Compressor Power Input	W	633
	Compressor Overload Protector		1
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient	°C	-15~43
	Heating Operation Ambient	°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	rom	950
0.11	Fan Motor Power Output	W	30
Uutdoor	Fan Motor RI A	A	0.4
Onic	Fan Motor Capacitor	υE	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1400
	Fan Type		Axial-flow
	Fan Diameter	mm	350
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side	MPa	IPX4 4.3
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating	MPa	IPX4 4.3 2.5
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side	MPa MPa	IPX4 4.3 2.5
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L)	MPa MPa dB (A)	IPX4 4.3 2.5 50/-/-
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L)	MPa MPa dB (A) dB (A)	IPX4 4.3 2.5 50/-/- 60/-/-
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD)	MPa MPa dB (A) dB (A) mm	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH)	MPa MPa dB (A) dB (A) mm mm	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH)	MPa MPa dB (A) dB (A) mm mm	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight	MPa MPa dB (A) dB (A) mm mm kg	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight	MPa MPa dB (A) dB (A) mm mm kg kg	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant	MPa MPa dB (A) dB (A) Mm Mm Mm kg kg	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge	MPa MM MM MM MM Kg Kg Kg Kg Kg Kg	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length	MPa MPa MPa MPa MPa M M M M M M M M M M	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45 5
	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge	MPa MPa MPa MPa MB(A) Mm MM MM MM Kg Kg Kg Kg Kg M M M M M M M M	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45 5 16
Connection	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe	MPa MPa MPa MPa MPa MPa MP M M M M M M M	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45 5 16 16
Connection Pipe	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe	MPa MPa MPa MPa MPa MPa M M M M M M M M	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45 5 16 16 1/4" 3/8"
Connection Pipe	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height	MPa MPa MPa MPa MPa M M M M M M M M M M	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45 5 16 1/4" 3/8" 10
Connection Pipe	Moisture Protection Permissible Excessive Operating Pressure for the Discharge Side Permissible Excessive Operating Pressure for the Suction Side Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height Max Distance Length	MPa MPa MPa MPa MPa MPa MP M M M M M M M	IPX4 4.3 2.5 50/-/- 60/-/- 710X450X293 761X327X500 764X330X525 21 23 R32 0.45 5 16 16 1/4" 3/8" 10 15

			1.GWH09QA-K6DNB4A 2.GWH09QA-K6DNB2A
Model			3.GWH09QA-K6DNB8A 4.GWH09QA-K6DNC4A
			1.CB434020401/CB434020402_2.CB432025401/CB432025402
Product Code	9		3.CB438012600 4.CB444013800 5.CB439018200 6.CB470008100
Dowor	Rated Voltage	V~	220-240
Supply	Rated Frequency	Hz	50
Cappiy	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	ent Input	А	3.2
Rated Input		W	1500
Rated Coolin	g Current	А	6
Rated Heatin	g Current	А	7.5
Air Flow Volu	me	m³/h	500/420/390/300
Dehumidifyin	g Volume	L/h	0.80
EER		W/W	3.47
COP		W/W	3.73
SEER			6.5
SCOP (Warm	ner/Average/Colder)		5.1/4.1/-
Application A	rea	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	Α	3.00			
	Compressor Power Input	W	633			
	Compressor Overload Protector					
	Throttling Method		Capillary			
	Set Temperature Range	ംറ	16~30			
	Cooling Operation Ambient Temperature Range	°C	-15~43			
	Heating Operation Ambient Temperature Range	°C	15~24			
	Condensor Form	0	Aluminum Ein connor Tubo			
	Condenser Form					
	Condenser Pipe Diameter	mm	Ψ/			
	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	/			
	Outdoor Unit Air Flow Volume	m³/h	1950			
	Fan Type		Axial-flow			
	Fan Diameter	mm	Ф400			
	Defrosting Method		Automatic Defrosting			
	Climate Type		T1			
	Isolation		I			
	Moisture Protection		IPX4			
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3			
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5			
	Sound Pressure Level (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	ka	25			
	Gross Weight	ka	27 5			
	Pefrigerant	Ng	P32			
		ka	0.5			
		ĸy	5.5			
	Connection Pipe Length	- m	5			
	Connection Pipe Gas Additional Charge	g/m	10			
Connection			1/4			
Pipe	Outer Diameter Gas Pipe	Inch	3/8			
	Max Distance Height	m	10			
	Max Distance Length	m	15			
	Note: The connection pipe applies metric diameter.					

Model			GWH09QB-K6DND8F
Product Code	9		CB459011500
	Rated Voltage	٧~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases		1
Power Supply	/ Mode		Outdoor
Cooling Capa	acity	W	2700
Heating Capa	acity	W	2800
Cooling Powe	er Input	W	735
Heating Powe	er Input	W	695
Cooling Curre	ent Input	А	3.51
Heating Curre	ent Input	А	3.32
Rated Input	•	W	1500
Rated Coolin	a Current	Α	6
Rated Heatin	g Current	A	75
Air Flow Volu	me	m <sup>3</sup> /h	550/520/400/280
		L/h	0.80
EED	g volume		3.67
			4.03
SEED		VV/ VV	4.00
SCOR (Marm	por/Average/Colder)		5.2 /4.2/
Application A		 m <sup>2</sup>	<u> </u>
Application A		[[]	
	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	А	0.215
	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	584×22.8×266.7
	Swing Motor Model		MP24AA
	Swing Motor Power Output	W	1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling:41/38/34/24 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	Α	3.00				
	Compressor Power Input	W	633				
	Compressor Overload Protector		1				
	Throttling Method		Capillary				
	Set Temperature Range	°C	16~30				
	Cooling Operation Ambient Temperature Range	°C	-15~43				
	Heating Operation Ambient Temperature Range	°C	-15~24				
	Condenser Form		Aluminum Ein-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 Ean Motor	W	30				
0.11	Fan Motor RI A	A	0.40				
Outdoor	Fan Motor Capacitor	μE	/				
Offic		μι 	/				
	Aleater Power Input	VV	1050				
		111 /11	Avial flow				
		THT	0400				
	Isolation						
	Moisture Protection		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	0.53				
	Connection Pipe Length	m	5				
	Connection Pipe Gas Additional Charge	g/m	16				
<b>.</b> .	Outer Diameter Liquid Pipe	inch	1/4				
Connection	Outer Diameter Gas Pipe	inch	3/8				
Lihe	Max Distance Height	m	10				
	Max Distance Length	m	15				
	Note: The connection pipe applies metric diameter.						

Model			1.GWH12QB-K6DNB2A 2.GWH12QB-K6DNB4A 3.GWH12QB-K6DNB8A 4.GWH12QB-K6DNC4A 5.GWH12QB-K6DNC2A 6.GWH12QB-K6DNE4A 7.GWH12QB-K6DND8A
Product Code			1.CB432025502/CB432025503 2.CB434020501 3.CB438012700 4.CB444013900 5.CB439018300 6.CB470008000 7.CB459010700
	Rated Voltage	٧~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	3200
Heating Capa	acity	W	3400
Cooling Powe	er Input	W	991
Heating Powe	er Input	W	916
Cooling Curre	ent Input	A	4.4
Heating Curre	ent Input	A	4
Rated Input		W	1500
Rated Coolin	a Current	Δ	6
Rated Heatin	a Current	Δ	75
Air Flow Volu	me	m <sup>3</sup> /h	590/480/410/280
	a Volume	L/h	1 4
EED	gvolume		3.03
COP			3.71
SEER			61
SCOP (Warm	per/Average/Colder)		5 1/4 0/-
Application A	rea	m <sup>2</sup>	15_22
Application A	Model		1.GWH12QB-K6DNB2A/I 2.GWH12QB-K6DNB4A/I 3.GWH12QB-K6DNB8A/I 4.GWH12QB-K6DNC4A/I 5.GWH12QB-K6DNC2A/I 6.GWH12QB-K6DNE4A/I 7.GWH12QB-K6DND8A/I
	Product Code		1.CB432N25502/CB432N25503 2.CB434N20501 3.CB438N12700 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	А	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	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	Α	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
Outdoor	Fan Motor RLA	Α	0.40
Unit	Fan Motor Capacitor	μF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /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	MD	4.0
	the Discharge Side	мра	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
0	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	3/8
, ibc	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	ər.	

Model			GWH12QBXB-K6DNC8D
Product Code			CB456010800
Power Supply	Rated Voltage	V~	220-240
	Rated Frequency	Hz	50
	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	3200
Heating Capa	acity	W	3400
Cooling Powe	er Input	W	991
Heating Pow	er Input	W	916
Cooling Curre	ent Input	А	4.4
Heating Curr	ent Input	Α	4
Rated Input	•	W	1500
Rated Coolin	a Current	Α	6
Rated Heatin	a Current	Α	7.5
Air Flow Volu	me	m <sup>3</sup> /h	590/480/410/280
	a Volume	L/h	14
EER	g volume	\\/\\/\	3.23
COP			3.71
SEED		••/••	61
			4.9/4.0/-
		 m <sup>2</sup>	15.22
Application A		111	
	Model		
	Product Code		CB456N10800
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Φ98X580
	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	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	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	1
	Compressor RLA	Α	3.60
	Compressor Power Input	W	758
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19 05×528
	Fan Motor Speed	rom	900
	Output of Fan Motor	W	30
0.11	Fan Motor RI A	A	0.4
Outdoor	Fan Motor Canacitor	μE	
Onic		ېمر ۱۸/	
	Alealer Power Input	VV	1050
		111 /11	Avial flow
		mm	
		111111	400 Automatic Defracting
	Neisture Distantian		
	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
_	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model			1.GWH09QC-K6DNB2F 2.GWH09QC-K6DNC4F
			3.GWH09QC-K6DND2F 1.CB432026000 2.CB444013400
Product Code			3.CB461007700
_	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Cuppiy	Phases		1
Power Supp	ly Mode		Outdoor
Cooling Cap	acity	W	2700
Heating Cap	acity	W	3000
Cooling Pow	er Input	W	695
Heating Pow	ver Input	W	700
Cooling Curr	ent Input	А	3.1
Heating Curi	rent Input	А	3.2
Rated Input		W	1400
Rated Coolir	ng Current	А	6
Rated Heatir	ng Current	А	6.2
Air Flow Volu	ume	m³/h	610/570/540/470/440/420/390
Dehumidifyir	ng Volume	L/h	1.69
EER	-	W/W	3.88
COP		W/W	4.29
SEER			7.5
SCOP (Warr	ner/Average/Colder)		5.3/4.2/3.4
Application Area		m²	12-18
	Model		1.GWH09QC-K6DNB2F/I 2.GWH09QC-K6DNC4F/I
			3.GWH09QC-K6DND2F/I
	Product Code		3.CB461N07700
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98Х633.5
	Cooling Speed	r/min	1200/1100/1050/950/900/850/800
	Heating Speed	r/min	1150/1100/1050/1000/950/900/850
	Fan Motor Power Output	W	20
	Fan Motor RLA	А	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model		MP24EB/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/29/27/25 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
	Gross Weight	kg	12.5

	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 I RA	Δ	15.00
	Compressor RLA	Δ	2 56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/
	Throttling Method		Canillary
	Set Temperature Range	ംറ	16~30
	Cooling Operation Ambient Temperature Range	۰ د	-15~50
	Heating Operation Ambient Temperature Range	°C	-15-30
		0	Aluminum Ein-copper Tube
	Condenser Pine Diameter	mm	Δiuminum m-copper Tube
		mm	ψ/ 1.1.2
	Condenser Coil Longth (LXDXW)	mm	
		rom	000
	Fan Motor Speed		900
		VV	0.40
Outdoor	Fan Motor RLA	A	0.40
Unit		μF	
	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)	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
Fihe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection nine applies metric diameter	r	

Note: The connection pipe applies metric diameter.

Model			1.GWH09QC-K6DNB2F 2.GWH09QC-K6DNB8F 3.GWH09QC-K6DNB4F 4.GWH09QC-K6DNA5F 5.GWH09QC-K6DND2F 6.GWH09QC-K6DNC6F 7.GWH09QC-K6DNB6F 8.GWH09QC-K6DND6F 9.GWH09QC-K6DNA2F
Product Code			1.CB432026001 2.CB438014301 3.CB434022701 4.CB425018001 5.CB461007701/CB461007702/CB461007703/CB461007704 6.CB443010801 7.CB435014001 8.CB460011201 9.CB426008501
_	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	2700
Heating Capa	acity	W	3000
Cooling Powe	er Input	W	695
Heating Powe	er Input	W	700
Cooling Curre	ent Input	Α	3.1
Heating Curre	ent Input	Α	3.2
Rated Input	•	W	1400
Rated Coolin	a Current	Δ	6
Rated Heatin	a Current	~	6.2
	g Current	A 34	0.2
Air Flow Volu	me	m°/h	610/570/540/470/440/420/390
Dehumidifyin	g Volume	L/h	1.69
EER		W/W	3.88
COP		W/W	4.29
SEER			7.5
SCOP (Warm	per/Average/Colder)		5 3/4 2/3 4
		2	10.40
Application A		m	
	Model		1.GWH09QC-K6DNB2F/I 2.GWH09QC-K6DNB8F/I 3.GWH09QC-K6DNB4F/I 4.GWH09QC-K6DNA5F/I 5.GWH09QC-K6DND2F/I 6.GWH09QC-K6DNC6F/I 7.GWH09QC-K6DNB6F/I 8.GWH09QC-K6DND6F/I 9.GWH09QC-K6DNA2F/I 1.CP432N26001 2.CP432N14300 2.CP434N23700 4.CP435N18000
	Product Code		5.CB461N07701/CB461N07702/CB461N07703/CB461N07700 6.CB443N10800 7.CB435N14000 8.CB460N11200 9.CB426N08500
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98Х633.5
	Cooling Speed	r/min	1200/1100/1050/950/900/850/800
	Heating Speed	r/min	1150/1100/1050/1000/950/900/850
	Fan Motor Power Output	W	20
	Fan Motor RI A	Α	0.31
	Fan Motor Canacitor	υF	15
		м	Aluminum Fin conner Tube
Indoor Unit	Evaporator Pipe Diameter	mm	Φ5
	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	W	1.5/1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling:38/36/34/31/29/27/25 Heating:38/37/35/34/32/29/28
	Sound Power Level	dB (A)	Cooling:54/48/46/43/41/39/37 Heating:56/49/47/46/44/41/40
	Dimension (WXHXD)	mm	845X289X209
	Dimension of Carton Box (LXWXH)	mm	900X351X272
	Dimension of Package (LXWXH)	mm	905X367X283
	Net Weight	ka	10.5
	Gross Weight	kg	12.5

	Outdoor Unit Model		GWH09AFC-K6DNA2F/O(LCLH)
	Outdoor Unit Product Code		CB363W02901
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-A082zC170
	Compressor Oil		ZE-G:ES RB68GX or equivalent
	Compressor Type		Rotary
	Compressor I RA	Α	15.00
	Compressor RI A	Δ	2 56
	Compressor Power Input	W	756.6
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Pange	°C	
	Cooling Operation Ambient Temperature Bange	°C	15-50
	Heating Operation Ambient Temperature Range	°C	-15~50
	Condensor Form	C	-20~30
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ψ/
	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
Unit	Fan Motor Capacitor	μF	<i>I</i>
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		<u> </u>
	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
Ріре	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	-

Model			1.GWH12QC-K6DNB2F 2.GWH12QC-K6DNC4F
Draduat Cada			1.CB432026101 2.CB444013501
			3.CB461007501 4.CB435016701
Power	Rated Voltage	V~	220-240
Supply	Rated Frequency	Hz	50
	Phases		1
Power Supply	y Mode		Outdoor
Cooling Capa	acity	W	3510
Heating Capa	acity	W	3810
Cooling Powe	er Input	W	962
Heating Powe	er Input	W	953
Cooling Curre	ent Input	А	4.3
Heating Curre	ent Input	А	4.6
Rated Input		W	1550
Rated Coolin	g Current	А	6.2
Rated Heatin	g Current	Α	6.9
Air Flow Volu	me	m³/h	700/650/600/540/480/420/360
Dehumidifvin	a Volume	L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER			71
SCOP (Warm	ner/Average/Colder)		5 2/4 1/3 1
	rea	m <sup>2</sup>	16-24
			1.GWH12QC-K6DNB2F/I 2.GWH12QC-K6DNC4F/I
	Model		3.GWH12QC-K6DND2F/I 4.GWH12QCXB-K6DNB6F/I
	Product Code		1.CB432N26100 2.CB444N13500
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	ф98X633 5
		r/min	1350/1200/1100/20/850/800
	Heating Speed	r/min	1300/1200/1120/1050/920/000/950
	For Motor Dower Output	1/11111	1300/1200/1120/1030/900/800
		VV 	20
	Fan Motor RLA	A	0.31
		μr	1.5
	Evaporator Form		
	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	W	1.5/1.5
	Fuse Current	A	3.15
	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
Outstan	Fan Motor RLA	A	0.40
Unit	Fan Motor Capacitor	uF	/
	Heater Power Input	W	
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
		111 /11	Avial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		
	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
Connection	Outer Diameter Gas Pipe	inch	3/8
, ihe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

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Model			GWH12QC-K6DNA5F
Product	Code		CB425016200
_	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power S	Supply Mode		Outdoor
Cooling	Capacity	W	3510
Heating	Capacity	W	3810
Cooling	Power Input	W	962
Heating	Power Input	W	953
Cooling	Current Input	Α	4.3
Heating	Current Input	Α	4.6
Rated I	nput	W	1550
Rated C	Cooling Current	Α	6.2
Rated H	leating Current	Α	6.9
Air Flow	Volume	m³/h	700/650/600/540/480/420/360
Dehumi	difying Volume	L/h	1.40
EER		W/W	3.65
COP		W/W	4.00
SEER			7.1
SCOP (	Warmer/Average/Colder)		5.2/4.1/3.1
Application Area		m²	16-24
	Model		GWH12QC-K6DNA5F/I
	Product Code		CB425N16200
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф98Х633.5
	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	Α	0.31
	Fan Motor Capacitor	μF	1.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
Indoor	Evaporator Row-fin Gap	mm	2-1.4
Unit	Evaporator Coil Length (LXDXW)	mm	635X22.8X306.3
	Swing Motor Model		MP24EB/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	Α	3.15
	Sound Prossure Loval		Cooling:42/38/35/32/29/26/25
		ub (A)	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 (WAHAD)	mm	000V254V270
	Dimension of Carton Box (LXWXH)	mm	900X301XZ/Z
	Dimension of Package (LXVVXH)	mm	900730/ 2283
		кg	11
	Gross weight	кд	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
0.11	Fan Motor RI A	A	0.40
Uutdoor Unit	Fan Motor Capacitor	uF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
		111 /11	AviaLflow
	Fan Diameter	mm	
	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
Connection Pine	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

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Model			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	Rated Frequency	Hz	50	
Supply	Phases	112	1	
Power 9			Outdoor	
Cooling		۱۸/	3510	
Cooling	Capacity		3010	
Heating		VV	3810	
Cooling	Power Input	VV	962	
Heating	Power Input	VV	953	
Cooling	Current Input	A	4.3	
Heating	Current Input	A	4.6	
Rated Ir	nput	W	1550	
Rated C	Cooling Current	A	6.2	
Rated H	leating Current	Α	6.9	
Air Flow	/ Volume	m³/h	700/650/600/540/480/420/360	
Dehumi	difying Volume	L/h	1.40	
EER		W/W	3.65	
COP		W/W	4.00	
SEER			7.1	
SCOP (	Warmer/Average/Colder)		5.2/4.1/3.1	
Applicat	tion Area	m <sup>2</sup>	16-24	
rippilout	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	Ф98Х633.5	
	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 RI A	A	0.31	
	Fan Motor Capacitor	υF	15	
	Evaporator Form	P1	Aluminum Fin-conner Tube	
Indoor	Evaporator Pipe Diameter	mm	ф5	
Unit	Evaporator Pow fin Can	mm	214	
	Evaporator Coil Longth (LXDX)()	mm	2-1.4 625V22 9V206 2	
	Evaporator Coll Length (LADAW)	111111	00000000000000000000000000000000000000	
	Swing Motor Nodel	14/		
		VV	1.3/1.5	
	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	/
	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
0.11	Fan Motor RI A	A	0.40
Uutdoor Unit	Fan Motor Capacitor	uF	/
	Heater Power Input	W	25
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	1950
		111 /11	AviaLflow
	Fan Diameter	mm	
	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
Connection Pine	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model			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
Davian	Rated Voltage	V~	220-240	220-240
Power	Rated Frequency	Hz	50	50
Supply	Phases		1	1
Power Supply	y Mode		Outdoor	Outdoor
Cooling Capa	acity	W	5200	5200
Heating Capa	acity	W	5600	5600
Cooling Powe	er Input	W	1576	1576
Heating Powe	er Input	W	1436	1436
Cooling Curre	ent Input	A	7.1	7.1
Heating Curre	ent Input	A	6.3	6.3
Rated Input		W	2400	2400
Rated Coolin	a Current	Δ	10.5	10.5
Rated Heatin	a Current	Δ	11	11
Air Flow Volu	me	m <sup>3</sup> /h	850/750/680/610/570/520/460	850/750/680/610/570/520/460
Dehumidifvin	a Volume	L/b	1 90	1 90
	g volume		3 200	3 200
			3.299	3.299
		VV/VV	3.9	3.9
SEER			/.l	/.1
SCOP (Warn			5.7/4.2/3.4	5.7/4.2/3.4
Application A		m		23-34
	Model		2.GWH18QD-K6DNC4I/I 3.GWH18QD-K6DND2I/I 4.GWH18QD-K6DNB6I/I	GWH18QD-K6DNA5I/I
	Product Code		1.CB432N26200/CB432N26201 2.CB444N13300 3.CB461N07600 4.CB435N14200	CB425N16300
	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	1230/1170/1100/1020/960/880/800/550
	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 RI A	A	0.24	0.24
	Fan Motor Capacitor	υF		
	Evaporator Form	P1	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Indoor Unit	Evaporator Pine Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-14	2-14
	Evaporator Coil Longth (LXDXW)	mm	715\254\204.8	715¥25 4¥304 8
	Swing Motor Model		MD35C 1/MD24HE	MD35C 1/MD24HE
	Swing Motor Nodel	۱۸/	0 5/1 5	0.5/1.5
		VV 	2.0/1.0	2.5/1.5
	Fuse Current	A	3.15 Cooling:44/43/41/38/36/34/30	0.15 Cooling:44/43/41/38/36/34/30
	Sound Pressure Level	dB (A)	Heating:44/45/42/40/38/36/33 Cooling:60/56/54/51/4947/43	Heating:44/45/42/40/38/36/33 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
		mm	970X300X224	970X300X224
	Dimension of Carton Box (LXWXH)	mm	1020X370X294	1020X370X294
	Dimension of Package (LXWXH)	mm	1025X378X304	1025X378X304
	Net Weight	kg	13	13.5
	Gross Weight	kg	15.5	16

	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	Α	5.00			
	Compressor Power Input	W	1096			
	Compressor Overload Protector		HPC115/95U1/KSD115°C			
	Throttling Method		Electron expansion valve			
	Set Temperature Range	°C	16~30			
	Cooling Operation Ambient Temperature Range	°C	-15~50			
	Heating Operation Ambient Temperature Range	°C	-15~30			
	Condenser Form		Aluminum Ein-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			
0.11	Fan Motor RI A	A	0.40			
Outdoor	Fan Motor Canacitor	μE	/			
Offic		μι 				
	Heater Power Input	VV	//			
		111 /11	Avial flow			
		mm				
	Fail Diameter	THT	4420			
	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	Outer Diameter Gas Pipe	inch	1/2			
Lihe	Max Distance Height	m	10			
	Max Distance Length	m	25			
	Note: The connection pipe applies metric diameter.					

Model			GWH18QD-K6DNA5I	GWH18QD-K6DND2I	
Product Code			CB425016301	CB461007602/CB461007605/ CB461007603	
Damag	Rated Voltage	V~	220-240	220-240	
Supply	Rated Frequency	Hz	50	50	
Cuppiy	Phases		1	1	
Power St	upply Mode		Outdoor	Outdoor	
Cooling (	Capacity	W	5200	5200	
Heating (	Capacity	W	5600	5600	
Cooling F	Power Input	W	1576	1576	
Heating F	Power Input	W	1436	1436	
Cooling (	Current Input	Α	7.1	7.1	
Heating (	Current Input	Α	6.3	6.3	
Rated In	out	W	2400	2400	
Rated Co	ooling Current	Α	10.5	10.5	
Rated He	eating Current	Α	11	11	
Air Flow	Volume	m³/h	850/750/680/610/570/520/460	850/750/680/610/570/520/460	
Dehumid	ifying 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 (V	Varmer/Average/Colder)		5.7/4.2/3.4	5.7/4.2/3.4	
Applicatio	on Area	m²	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	1230/1170/1100/1020/960/880/800/550	
	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	1	/	
	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	Α	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 of Carton Box (LXWXH)	mm	1020X370X294	1020X370X294	
	Dimension of Package (LXWXH)	mm	1025X378X304	1025X378X304	
	Net Weight	kg	13.5	13	
	Gross Weight	kg	16	16	

	Outdoor Unit Model		GWH18AFD-K6DNA2I/O(LCLH)
	Outdoor Unit Product Code		CB363W04201
	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	Α	5.00
	Compressor Power Input	W	1096
	Compressor Overload Protector		HPC115/95U1/KSD115°C
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-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
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	Α	0.40
Unit	Fan Motor Capacitor	μF	/
	Heater Power Input		1
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	2200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ420
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MDe	4.2
	the Discharge Side	мра	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
0	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	1/2
i ipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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	Mode		Outdoor		
Cooling (	Capacity	W	5200		
Heating (	Capacity	W	5600		
Cooling F	Power Input	W	1576		
Heating F	Power Input	W	1436		
Cooling (		Δ	7 1		
Heating (		Δ	63		
Rated Inr		\//	2400		
Rated Co	ooling Current	Δ	10.5		
Rated He		Δ	11		
			850/750/680/610/570/520//60		
Dohumidi		L/b	1 00		
			2 200		
			3.299		
		VV/VV	7.1		
SEER	(ormor/Average/Colder)		<i>I</i> .1		
SCOP (V			5.7/4.2/3.4		
Applicatio	on Area	m-			
	Model		4.GWH18QD-K6DNB4I/I 5.GWH18QD-K6DNB6I/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	Ф106Х706		
	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		GWH18AFD-K6DNA2I/O(LCLH)
	Outdoor Unit Product Code		CB363W04201
	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	Α	5.00
	Compressor Power Input	W	1096
	Compressor Overload Protector		HPC115/95U1/KSD115°C
	Throttling Method		Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-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
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	Α	0.40
Unit	Fan Motor Capacitor	μF	/
	Heater Power Input		1
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	2200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ420
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MDe	4.2
	the Discharge Side	мра	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
0	Outer Diameter Liquid Pipe	inch	1/4
	Outer Diameter Gas Pipe	inch	1/2
i ipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	
Model			GWH18QD-K6DNC4D
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Product Code	3		CB444012303
	Rated Voltage	٧~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	v Mode		Outdoor
Cooling Capa	acity	W	5200
Heating Capa	acity	W	5300
Cooling Powe	er Input	W	1528
Heating Powe	er Input	W	1410
Cooling Curre	ent Input	Α	6.78
Heating Curr	ent Input	А	6.26
Rated Input	•	W	2600
Rated Coolin	a Current	А	6.78
Rated Heatin	g Current	A	11.5
Air Flow Volu	me	m³/h	800/720/650/610/570/520/470
Dehumidifvin	a Volume	L/h	1.8
FFR		W/W	3.4
COP		W/W	3.76
SEER			7
			/
Application Area		m <sup>2</sup>	23-34
	Madal		
	Product Code		Crass flow
	Fan Type		CIOSS-IIOW
	Fan Diameter Length(DXL)	mm	Ψ100X700 1220/4450/4000/050/000/050/000
	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	A	0.35
	Fan Motor Capacitor	μF	2.5
	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ/
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 Heating:47/45/42/40/38/35/33
	Sound Power Level	dB (A)	Cooling:59/57/55/52/49/48/45 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	Α	6.5
	Compressor Power Input	W	1410
	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	-15~24
	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
Outdoor	Fan Motor RLA	Α	0.4
Unit	Fan Motor Capacitor	μF	1
	Heater Power Input	W	1
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	3200
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ520
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MDe	4.2
	the Discharge Side	мра	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
0	Outer Diameter Liquid Pipe	inch	Φ6
Connection Pine	Outer Diameter Gas Pipe	inch	Φ12
, ipc	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model			1.GWH18QD-K6DNB2E 2.GWH18QD-K6DNC4A 3.GWH18QD-K6DNC2A	GWH18QD-K6DNE4A GWH18QDXB-K6DND8E
Product Code	9		1.CB432026600 2.CB444013700 3.CB439018400	CB470008300 CB459009602
_	Rated Voltage	V~	220-240	220-240
Power	Rated Frequency	Hz	50	50
Supply	Phases		1	1
Power Supply	/ Mode		Outdoor	Outdoor
Cooling Capacity		W	4600	4600
Heating Capacity		W	5200	5200
Cooling Powe	er Input	W	1355	1355
Heating Power Input		W	1340	1340
Cooling Curre	ant Input	Δ	59	59
Heating Curre		Δ	5.8	5.8
Rated Input		\\/	1900	1900
Rated Input	a Current	V V 	9	9
Raleu Cooling Current		A 	0	0
		A m <sup>3</sup> /h	950/900/700/600	950/900/700/600
All Flow Volu		111 /11	1 90	1 20
	g volume		2.20	2.20
			2.09	2.09
		VV/VV	5.00	5.88
SEER	ver/Averege/Celder)		0.4	0.4
SCOP (Warn			4.0	4.0
Application A		m-		12-18
	Model		2.GWH18QD-K6DNC4A/I 3.GWH18QD-K6DNC4A/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	Ф 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	Α	0.45	0.45
	Fan Motor Capacitor	uF	2.5	2.5
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Indoor Unit	Evaporator Pipe Diameter	mm	Φ7	Φ7
	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		MP35C.1	MP35C I/MP24HF
	Swing Motor Power Output	١٨/	15	1 5/1 5
	Euso Current	VV 	3.15	3 15
		~	Cooling:44/42/38/34	Cooling:44/42/38/34
	Sound Pressure Level	dB (A)	Heating: 54/52/48/44	Heating:48/46/41/37
	Sound Power Level	dB (A)	Heating:58/56/51/47	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.	Α	19
	Compressor RLA	Α	4.4
	Compressor Power Input	W	952
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient	°C	-15~43
	Heating Operation Ambient	°C	-15~24
	Temperature Range	0	
	Condenser Form		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	А	0.40
	Fan Motor Capacitor	μF	1
	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		I
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (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		R32
	Refrigerant Charge	kg	0.75
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection nine annlies metric	- diame	tor

Note: The connection pipe applies metric diameter.

Model			GWH24QE-K6DNC4E
Product Code	3		CB444009802
	Rated Voltage	٧~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	v Mode		Outdoor
Cooling Capa	acity	W	7000
Heating Capa	acity	W	7400
Cooling Powe	er Input	W	1900
Heating Powe	er Input	W	1897
Cooling Current Input		Α	8.73
Heating Curr	ent Input	А	8.84
Rated Input	•	W	3750
Rated Coolin	a Current	Α	8.73
Rated Heatin	g Current	A	17.5
Air Flow Volu	me	m <sup>3</sup> /h	1250/1100/1000/950/900/850/750
Dehumidifvin	a Volume	L/h	2.4
EER		W/W	3.68
COP		W/W	3.90
SEER			6.5
			/
Application Area		m <sup>2</sup>	27-42
	Madal		
	Product Code		CB444N09802
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ψ108X830
	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	A	0.35
	Fan Motor Capacitor	μF	3
	Evaporator Form		
	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 Heating:47/45/42/40/39/37/35
	Sound Power Level	dB (A)	Cooling:58/55/52/49/47/46/43 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 Model		GWH24QE-K6DNA1E/O(LC)
	Outdoor Unit Product Code		CB419W15701
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXFS-D25zX090H
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	Compressor LRA.	Α	24
	Compressor RLA	Α	11.7
	Compressor Power Input	W	2420
	Compressor Overload Protector		HPC115/95U1/KSD115℃
	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	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	935X38 1X660
	Fan Motor Speed	rom	800
	Fan Motor Power Output	W	60
0.11	Fan Motor RLA	A	0.58
Outdoor	Fan Motor Capacitor	μE	/
Offic	Hester Dever Input	<u>مر</u>	
	Alealer Power Input	VV	/ 3200
		111 /11	S200
		mm	AXIAI-IIUW
		111111	4utomotic Defracting
	Neisture Protection		
	Moisture Protection Permissible Excessive Operating Pressure for		IPA4
	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)	67/-/-
	Dimension(WXHXD)	mm	965X700X396
	Dimension of Carton Box (LXWXH)	mm	1026X455X735
	Dimension of Package(LXWXH)	mm	1029X458X750
	Net Weight	kg	53.5
	Gross Weight	kg	58
	Refrigerant		R32
	Refrigerant Charge	kg	1.7
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	50
<b>.</b> .	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	5/8
Lihe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model			GWH24QD-K6DNC4B	GWH24QD-K6DNC2B	
			GWH24QD-K6DNB2B CB444013600	GWH24QDXE-K6DND8B CB439018500	
Product Cod	e		CB432026700	CB459009501	
Dowor	Rated Voltage	V~	220-240	220-240	
Supply	Rated Frequency	Hz	50	50	
	Phases		1	1	
Power Suppl	ly Mode		Outdoor	Outdoor	
Cooling Capacity		W	6200	6200	
Heating Capacity		W	6500	6500	
Cooling Power Input		W	1827	1827	
Heating Power Input		W	1912	1912	
Cooling Curr	ent Input	A	7.6	7.6	
Heating Curr	ent Input	A	7.6	7.6	
Rated Input		W	2300	2300	
Rated Coolir	ng Current	A	9.3	9.3	
Rated Heatir	ng Current	Α	10.2	10.2	
Air Flow Volu	ıme	m³/h	900/800/600/400	900/800/600/400	
Dehumidifyir	ng Volume	L/h	1.80	1.80	
EER		W/W	3.40	3.40	
COP		W/W	3.40	3.40	
SEER			6.8	6.8	
SCOP (Warn	ner/Average/Colder)		5.1/4.0/-	5.1/4.0/-	
Application A	Area	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	Ф106X739	Ф106X739	
	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	1	1	
	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	Α	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.	Α	/
	Compressor RLA	Α	6.06
	Compressor Power Input	W	1330
	Compressor Overload Protector		/
	Throttling Method		Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Lenath (LXDXW)	mm	848X38.1X528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	40
Outdoor	Fan Motor RLA	A	0.70
Unit	Fan Motor Capacitor	uF	1
	Heater Power Input	W	1
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /h	2800
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф445
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	MDo	4.2
	the Discharge Side	IVIFa	4.5
	the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)		<b>F7</b> //
		UB (A)	57/-/-
	Sound Power Level (H/M/L)	dB (A)	65/-/-
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD)	dB (A) dB (A) mm	65/-/- 873X555X376
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH)	dB (A) dB (A) mm mm	65/-/- 873X555X376 948X428X591
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH)	dB (A) dB (A) mm mm	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight	dB (A) dB (A) mm mm mm kg	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension(WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight	dB (A) dB (A) mm mm kg kg	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant	dB (A) dB (A) mm mm kg kg	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge	dB (A) dB (A) mm mm kg kg kg	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32 1.23
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length	dB (A) dB (A) mm mm kg kg kg kg m	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32 1.23 5
	Sound Pressure Level (H/M/L) Sound Power Level (H/M/L) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge	dB (A) dB (A) mm mm kg kg kg kg m g/m	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32 1.23 5 16
	Sound Pressure Level (HMML) Sound Power Level (HMML) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe	dB (A) dB (A) mm mm kg kg kg kg m kg m g/m	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32 1.23 5 16 1/4
Connection	Sound Pressure Level (HMML) Sound Power Level (HMML) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe	dB (A) dB (A) mm mm kg kg kg kg kg m kg m g/m inch	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32 1.23 5 16 1/4 1/2
Connection Pipe	Sound Pressure Level (HMML) Sound Power Level (HMML) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height	dB (A) dB (A) mm mm kg kg kg kg m kg m g/m inch inch	5//-/- 65/-/- 873×555×376 948×428×591 951×431×620 36.5 39.5 R32 1.23 5 16 1/4 1/2 10
Connection Pipe	Sound Pressure Level (HMML) Sound Power Level (HMML) Dimension (WXHXD) Dimension of Carton Box (LXWXH) Dimension of Package(LXWXH) Net Weight Gross Weight Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height Max Distance Length	dB (A) dB (A) mm mm kg kg kg kg kg m kg m inch inch inch inch m m	5//-/- 65/-/- 873X555X376 948X428X591 951X431X620 36.5 39.5 R32 1.23 5 16 1/4 1/2 10 25

Model			GWH24QE-K6DNB2I GWH24QE-K6DND2K GWH24QE-K6DNB6K	
Product Code	9		CB432026300 CB461007800 CB435016800	
	Rated Voltage	V~	220-240	
Power	Rated Frequency	Hz	50	
Supply	Phases		1	
Power Suppl	v Mode		Outdoor	
Cooling Capa	acity	W	7100	
Heating Capacity		W	7800	
Cooling Power Input		W	2030	
Heating Power Input		W	2000	
Cooling Current Input		Α	9	
Heating Curr	ent Input	A	9.3	
Rated Input		W	3000	
Rated Coolin	g Current	Α	13	
Rated Heatin	a Current	A	13.5	
Air Flow Volu	me	m³/h	1250/1100/1000/950/900/850/800	
Dehumidifvin	a Volume	L/h	2.40	
EER	5	W/W	3.50	
COP		W/W	3.90	
SEER			7	
SCOP (Warmer/Average/Colder)			5.4/4.2/3.6	
Application A	rea	m²	27-42	
	Model		GWH24QE-K6DNB2I/I GWH24QE-K6DND2K/I GWH24QE-K6DNB6K/I	
	Product Code		CB432N26300 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	Α	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)	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	
	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	Φ520
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for	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	kq	41.5
	Gross Weight	kq	46
	Refrigerant		R32
	Refrigerant Charge	ka	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	a/m	40
	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	5/8
Pipe			
	Max Distance Height	m	10
	Max Distance Height Max Distance Length	m m	10 25
	Max Distance Height Max Distance Length Note: The connection pipe applies metric diameter	m m er.	10 25

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	2		1.CB425016401 2.CB438014201 3.CB432026301 4.CB434022601 5.CB426008601 6.CB443010701 7.CB435014301 8.CB460011301
Davias	Rated Voltage	V~	220-240
Power	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 Power Input		W	2000
Cooling Curre	ent Input	Α	9
Heating Curre	ent Input	Α	9.3
Rated Input	•	W	3000
Rated Coolin	g Current	A	13
Rated Heatin	a Current	Α	13.5
Air Flow Volu	me	m³/h	1250/1100/1000/950/900/850/800
		l /h	2 40
		W/W	3 50
COP			3 90
			7
			5 4/4 2/3 4
		 m <sup>2</sup>	0.4/4.2/0.4
Application A		111	
	Model		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	А	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
	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)	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	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	A	0.65
Unit	Fan Motor Capacitor	uF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /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	IVIFa	4.5
	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	kq	41.5
			46
	Gross Weight	kq	10
	Gross Weight Refrigerant	kg	R32
	Gross weight Refrigerant Refrigerant Charge	kg kq	R32
	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length	kg kg m	R32 1.5 5
	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge	kg kg m g/m	R32 1.5 5 40
	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe	kg kg m g/m inch	R32 1.5 5 40 1/4
Connection	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe	kg kg m g/m inch inch	R32 1.5 5 40 1/4 5/8
Connection Pipe	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height	kg kg m g/m inch inch m	R32 1.5 5 40 1/4 5/8 10
Connection Pipe	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height Max Distance Length	kg kg m g/m inch inch m m	R32 1.5 5 40 1/4 5/8 10 25
Connection Pipe	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height Max Distance Length Note: The connection pipe applies metric diameter	kg kg m g/m inch inch m m er.	R32 1.5 5 40 1/4 5/8 10 25

Product Code       Rated Voltage       V~       CB461007801       CB461007803/CB461007804 CB461007804         Power Supply       Rated Voltage       V~       220-240       220-240         Power Supply       Rated Frequency       Hz       50       50         Power Supply       Mode       1       1       1         Power Supply       Mode       Outdoor       Outdoor         Cooling Capacity       W       7100       7100         Heating Capacity       W       7800       7800         Cooling Power Input       W       2030       2030         Heating Power Input       W       2000       2000         Cooling Current Input       A       9       9         Heating Current Input       A       9.3       9.3         Rated Cooling Current       A       13       13         Rated Cooling Current       A       13.5       13.5         Rated Heating Current       A       13.5       13.5         Rated Heating Current       A       13.5       13.5         Air Flow Volume       M*/h       1250/1100/1000/950/900/850/800       1250/1100/10
Power SupplyRated VoltageV~220-240220-240Rated FrequencyHz5050Phases11Power Supply ModeOutdoorOutdoorCooling CapacityW71007100Heating CapacityW78007800Cooling Power InputW20302030Heating Power InputW20002000Cooling Current InputA99Heating Current InputA9.39.3Rated Cooling CurrentA1313Rated Cooling CurrentA13.513.5Air Flow Volumem³/h1250/1100/1000/950/900/850/8001250/1100/1000/950/900/850/800Dehumidifying VolumeL/h2.402.40EERW/W3.503.50COPW/W3.903.90
Power SupplyRated FrequencyHz5050Phases11Power Supply ModeOutdoorOutdoorCooling CapacityW71007100Heating CapacityW78007800Cooling Power InputW20302030Heating Power InputW20002000Cooling Current InputA99Heating Current InputA9.39.3Rated Cooling CurrentA1313Rated Cooling CurrentA13.513.5Air Flow Volumem³/h1250/1100/1000/950/900/850/8001250/1100/1000/950/900/850/800Dehumidifying VolumeL/h2.402.40EERW/W3.503.50COPW/W3.903.90
Outprive PhasesPhases11Power Supply ModeOutdoorOutdoorCooling CapacityW71007100Heating CapacityW78007800Cooling Power InputW20302030Heating Power InputW20002000Cooling Current InputA99Heating Current InputA9.39.3Rated InputW30003000Rated Cooling CurrentA1313Rated Heating CurrentA13.513.5Air Flow Volumem³/h1250/1100/1000/950/900/850/8001250/1100/1000/950/900/850/800Dehumidifying VolumeL/h2.402.40EERW/W3.503.50COPW/W3.903.90
Power Supply ModeImage: constraint of the straint of the
Cooling Capacity       W       7100       7100         Heating Capacity       W       7800       7800         Cooling Power Input       W       2030       2030         Heating Power Input       W       2000       2000         Cooling Current Input       A       9       9         Heating Current Input       A       9.3       9.3         Rated Input       W       3000       3000         Rated Cooling Current       A       13       13         Rated Cooling Current       A       13.5       13.5         Air Flow Volume       m <sup>3</sup> /h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Heating Capacity       W       7800       7800         Cooling Power Input       W       2030       2030         Heating Power Input       W       2000       2000         Cooling Current Input       A       9       9         Heating Current Input       A       9.3       9.3         Rated Input       A       9.3       3000         Rated Cooling Current       A       13       13         Rated Cooling Current       A       13.5       13.5         Rated Heating Current       A       13.5       13.5         Rated Heating Current       A       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Cooling Power Input       W       2030       2030         Heating Power Input       W       2000       2000         Cooling Current Input       A       9       9         Heating Current Input       A       9.3       9.3         Rated Input       W       3000       3000         Rated Cooling Current       A       13       13         Rated Cooling Current       A       13.5       13.5         Rated Heating Current       A       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Heating Power Input       W       2000       2000         Cooling Current Input       A       9       9       9         Heating Current Input       A       9.3       9.3       9.3         Rated Input       W       3000       3000       3000         Rated Cooling Current       A       13       13       13         Rated Heating Current       A       13.5       13.5       13.5         Air Flow Volume       m <sup>3</sup> /h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Cooling Current Input       A       9       9         Heating Current Input       A       9.3       9.3         Rated Input       W       3000       3000         Rated Cooling Current       A       13       13         Rated Heating Current       A       13.5       13.5         Air Flow Volume       m³/h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Heating Current Input       A       9.3       9.3         Rated Input       W       3000       3000         Rated Cooling Current       A       13       13         Rated Heating Current       A       13.5       13.5         Air Flow Volume       m³/h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Rated Input       W       3000       3000         Rated Cooling Current       A       13       13         Rated Heating Current       A       13.5       13.5         Air Flow Volume       m³/h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Rated Cooling Current       A       13       13         Rated Heating Current       A       13.5       13.5         Air Flow Volume       m³/h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Rated Heating Current       A       13.5       13.5         Air Flow Volume       m³/h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Air Flow Volume       m³/h       1250/1100/1000/950/900/850/800       1250/1100/1000/950/900/850/800         Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
Dehumidifying Volume       L/h       2.40       2.40         EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
EER       W/W       3.50       3.50         COP       W/W       3.90       3.90
COP W/W 3.90 3.90
SEER 7 7
SCOP (Warmer/Average/Colder) 5.4/4.2/3.4 5.4/4.2/3.4
Application Area 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)mm108X830108X830
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 OutputW6060
Fan Motor RLA A 0.24 0.24
Fan Motor CapacitorµF//
Evaporator Form       Aluminum Fin-copper Tube       Aluminum Fin-copper Tube
Evaporator Pipe Diameter mm $\Phi7$ $\Phi7$
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 CurrentA3.153.15
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	A	0.65
Unit	Fan Motor Capacitor	uF	/
	Heater Power Input	W	/
	Outdoor Unit Air Flow Volume	m <sup>3</sup> /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	IVIFa	4.5
	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	kq	41.5
			46
	Gross Weight	kq	10
	Gross Weight Refrigerant	kg	R32
	Gross weight Refrigerant Refrigerant Charge	kg kq	R32
	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length	kg kg m	R32 1.5 5
	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge	kg kg m g/m	R32 1.5 5 40
	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe	kg kg m g/m inch	R32 1.5 5 40 1/4
Connection	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe	kg kg m g/m inch inch	R32 1.5 5 40 1/4 5/8
Connection Pipe	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height	kg kg m g/m inch inch m	R32 1.5 5 40 1/4 5/8 10
Connection Pipe	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height Max Distance Length	kg kg m g/m inch inch m m	R32 1.5 5 40 1/4 5/8 10 25
Connection Pipe	Gross Weight Refrigerant Refrigerant Charge Connection Pipe Length Connection Pipe Gas Additional Charge Outer Diameter Liquid Pipe Outer Diameter Gas Pipe Max Distance Height Max Distance Length Note: The connection pipe applies metric diameter	kg kg m g/m inch inch m m er.	R32 1.5 5 40 1/4 5/8 10 25

### 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



## 2.3 Cooling and Heating Data Sheet in Rated Frequency

### Cooling:

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

GWH09QC-K6DNA5F/I GWH09QC-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-K6DND2F/I GWH09QC-K6DNC6F/I GWH09QC-K6DNB6F/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



#### GWH24QD-K6DNC4B/I GWH24QD-K6DNC2B/I



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



GWH24QD-K6DNB2B/I GWH24QDXE-K6DND8B/I



### GWH18QD-K6DNE4A/I GWH18QDXB-K6DND8E/I



### 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
16	Display board
17	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

Technical Information



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	Terminal of 4-way valve
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

i.		I feel		
F	AN <sup>AUTO</sup>	Set fan speed		
	\$	Turbo mode		
	<b></b>	Send signal		
e	$\bigtriangleup$	Auto mode		
Dom 1	*	Cool mode		
tion	6 <sup>6</sup> 6	Dry mode		
erat	\$	Fan mode		
ð	\$	Heat mode		
C		Sleep mode		
\$		8°C heating function		
Â		Health mode		
		Scavenging function		
<b>Ģ</b>		Quiet		
&		X-FAN function		
	_	🗋 Set temp.		
급나 Temp. display type		ာ Indoor ambient temp.		
		습 <sup>¦</sup> Outdoor ambient temp.		
	Θ	Clock		
	88	Set temperature		
	WIFI	WiFi function		
88:88		Set time		
ONOFF		TIMER ON / TIMER OFF		
<u>⇒</u> Ωૂ≂		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 " / " 퉀 " 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 " ≱ " / " 示 " 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.



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 "A" 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

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



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

• 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:

• "  $\geq 1, \geq 1, \geq 1$  " 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 increased 2, then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1, two hours, setting temperature will decrease 2, then the unit will run at this setting temperature 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. " ⑤ " 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. " () " 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 guit 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

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.

#### 🔎 button

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

. <b>: :</b> :		I feel	
		Set fan speed	
\$		Turbo mode	
	<b>^</b>	Send signal	
e	$\bigcirc$	Auto mode	
0 m	*	Cool mode	
tion	<u>د د</u>	Dry mode	
era	\$	Fan mode	
g	\$	Heat mode	
Ċ		Sleep mode	
\$		8°C heating function	
<b>个</b>		Health mode	
む		Scavenging function	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		X-FAN function	
ि। Temp. display type		🗋 Set temp.	
		lndoor ambient temp.	
		습 <sup>,</sup> Outdoor ambient temp.	
Θ		Clock	
88		Set temperature	
WIFI		WiFi function	
88:88		Set time	
	ONOFF	TIMER ON / TIMER OFF	
<i>≥</i> `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.

#### し 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	
$\rightarrow \bigcirc -$	→*→	• • • • -	≁%-	→ ☆ -	

• 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:

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

• 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. "  $c_{0}^{2}$  " 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 " $\lor$ " 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, " $\square$ " icon is displayed on remote controller. If you operate the remote controller, the " $\square$ " 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 " 퉀 " / " 刹 " 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 " ☴ " / " 刹 " 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)

### 「黒」

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.

#### () ||

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

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

• When selecting " **10** ", 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 , ₃ 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:

• "  $e^0$ ,  $e^0$ ,  $e^0$  " 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 **1** , if press this button again 2s later, **1** of 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. " ⊕ " icon on remote controller will blink. Press "▲" or " ▼ " button within 5s to set clock time. Each pressing of "▲" or " ▼ " button, clock time will increase or decrease 1 minute. If hold "▲" or " ▼ " button, 2s later, time will change quickly. Release this button when reaching your required time. Press "CLOCK" button to confirm the time. " ⊕ " icon stops blinking.

#### NOTE:

Clock time adopts 24-hour mode.

• The interval between two operations can't exceed 5s. Otherwise, remote controller will quit setting status. Operation for 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.

#### LIGHT

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		
급 Temp. display type		☐ Set temp.		
		<ul> <li>☐ Indoor ambient temp.</li> </ul>		
		ப் Outdoor ambient temp.		
e	$\bigtriangleup$	Auto mode		
mod	*	Cool mode		
ion	6 <sup>4</sup> 6	Dry mode		
erat	\$	Fan mode		
d	\$	Heat mode		
	88	Set temperature		
	\$	8°C heating function		
	≉	Health mode		
	む	Scavenging function		
	æ	X-FAN function		
Ť		l feel		
		Child lock		
	<b>P</b>	Quiet		
	\$	Turbo mode		
63		Sleep mode		
Θ		Clock		
	ONOFF	TIMER ON / TIMER OFF		
88:88		Set time		
<b>1</b>		Up & down swing		
<b></b>		Left & right swing		
<b>I</b>		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  ${\rm (I)}$  ).

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  $16~30^{\circ}$ 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  $180s\sim 195s$ . 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:

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

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

3 When Tpreset-2  $\degree$ C < Tindoor ambient temperature < Tpreset, unit operates according to the previous status.

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

#### 2. Drying mode

(1) Working condition and process of drying mode

① When Tindoor ambient temperature > Tpreset, unit will be in drying mode. Outdoor fan and compressor start operation while indoor fan will operate at low fan speed.

② When Tpreset-2℃ ≤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.

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

Note: Tcompensation is determined by IDU and ODU. If IDU controls the compensation temperature, then Tcompensation is determined according to the value sent by IDU to ODU; If IDU does not control the compensation temperature, then Tcompensation will default to  $3^{\circ}$ 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 – ∠ Tooling 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  $f \ge 40$ Hz, 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)]  $\leq 0.5^{\circ}C$ , 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: 25~30°C (Cooling at low temperature),

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

# (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: 16~30°C .

# 3. Special Functions

# **Defrosting Control**

① Conditions for starting defrosting

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

2 Conditions of finishing defrosting

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

(3) 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]  $\leq$ Tinner pipe <[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 [IPower 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 Clearing Time of Compressor Phase Current Times], 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 outof-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 four-way valve happens to stop working for 3 times in succession, it is

available if presses ON/OFF.

Attention: the protection shall be shielded during the testing mode and defrosting process, and it shall be cleared out the failure and 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<sub>outdoor amb.</sub>>-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  $N_2$  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

#### **∧** 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)



# ▲ 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)  $% \left( f_{1},f_{2},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3},f_{3$ 

(2) Pretightening the union nut with hand.

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

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





Refer to the following table for wrench moment of force:

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

#### 6. Install Drain Hose

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

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



# **⚠ Note:**

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

(2) The plastic expansion particles are not provided.

(As show in Fig.10)



# 7. Connect Wire of Indoor Unit

(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.





# \land 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)  $\,$ 



# ▲ 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)



#### 🗥 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>

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	During cooling and drying operation, compressor will sop after operating for about 3 mins, while indoor fan will operate; During heating operation, the complete unit will stop after operating for about 3 mins.	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	All loads operate normally, while operation frequency for compressor is decreased	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
Limit/decrease frequency due to antifreezing	FH	All loads operate normally, while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low
Voltage for DC bus- bar is too high	PH	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if 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	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

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	Heating indicator off for 0.5s and then blinks for 10s	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>

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

# 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?
- 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
No power supply, or poor connection for power plug	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.
Wrong wire connection between indoor unit and outdoor unit, or poor connection for wiring terminals	Under normal power supply circumstances, operation indicator isnt bright after energization	Check the circuit according to circuit diagram and connect wires correctly. Make sure all wiring terminals are connected firmly
Electric leakage for air conditioner	After energization, room circuit breaker trips off at once	Make sure the air conditioner is grounded reliably Make sure wires of air conditioner is connected correctly Check the wiring inside air conditioner. Check whether the insulation layer of power cord is damaged; if yes, place the power cord.
Model selection for air switch is improper	After energization, air switch trips off	Select proper air switch
Malfunction of remote controller	After energization, operation indicator is bright, while no display on remote controller or buttons have no action.	Replace batteries for remote controller Repair or replace remote controller

# 2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium
Filter of indoor unit is blocked	Check the filter to see its blocked	Clean the filter
Installation position for indoor unit and outdoor unit is improper	Check whether the installation postion is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rainproof and sunproof for outdoor unit
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Units pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add refrigerant.
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unitt pressure is much lower than regulated range. If refrigerant isnt leaking, part of capillary is blocked	Replace the capillary
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely
Malfunction of horizontal louver	Horizontal louver 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
Wrong wire connection, or poor connection	Check the wiring status according to circuit diagram	Connect wires according to wiring diagram to make sure all wiring terminals are connected firmly
Stepping motor is damaged	Stepping motor cant operate	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	Check the wiring status according to circuit	Connect wires according to wiring diagram to make
Capacity of the ODU fan motor is damaged	Measure the capacity of fan capacitor with an universal meter and find that the capacity is out of the deviation range indicated on the nameplate of fan capacitor.	Replace the capacity of fan
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Motor of outdoor unit is damaged	When unit is on, cooling/heating performance is bad and ODU compressor generates a lot of noise and heat.	Change compressor oil and refrigerant. If no better, replace the compressor with a new one

# 5. Compressor Cant Operate

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

# 7. Abnormal Sound and Vibration

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
When turn on or turn off the unit, the panel and other parts will expand and 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	Electric Box
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

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

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	Jumper
30	Main Board
31	Air Louver
32	Stepping Motor
33	Air Louver 2
34	Swing Lever
35	Decorative Board (Right)
36	
37	Electric Box Cover2
38	Shield Cover of Electric Box
39	
40	Ierminal Board
41	
42	
43	
44	
45	Cold Plasma Generator
46	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	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)

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