



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Table of Contents

Part I: Technical Information	1
1. Summary	1
2. Specifications	5
2.1 Specification Sheet	
2.2 Capacity Variation Ratio According to Temperature	
2.3 Cooling and Heating Data Sheet in Rated Frequency	
3. Outline Dimension Diagram	46
3.1 Indoor Unit	46
3.2 Outdoor Unit	47
4. Refrigerant System Diagram	50
5. Electrical Part	51
5.1 Wiring Diagram	
5.2 PCB Printed Diagram	59
6. Function and Control	67
6.1 Remote Controller Introduction for YAP1F7	67
6.2 Remote Controller Introduction for YAY1F1	73
6.3 Brief Description of Models and Functions	78
6.4 GREE+ App Operation Manual	83
6.5 Ewpe Smart App Operation Manual	84
Part II: Installation and Maintenance	85
7. Notes for Installation and Maintenance	85
8. Installation	94
8.1 Installation Dimension Diagram	94
8.2 Installation Parts-checking	96
8.3 Selection of Installation Location	96
8.4 Electric Connection Requirement	96

8.5 Installation of Indoor Unit	97
8.6 Installation of Outdoor Unit	99
8.7 Vacuum Pumping and Leak Detection	100
8.8 Check after Installation and Test Operation	101
9. Maintenance	102
9.1 Error Code List	102
9.2 Procedure of Troubleshooting	107
9.3 Troubleshooting for Normal Malfunction	119
10. Exploded View and Parts List	121
10.1 Indoor Unit	
10.2 Outdoor Unit	128
11. Removal Procedure	136
11.1 Removal Procedure of Indoor Unit	136
11.2 Removal Procedure of Outdoor Unit	141
Appendix:	166
Appendix 1: Reference Sheet of Celsius and Fahrenheit	
Appendix 2: Configuration of Connection Pipe	166
Appendix 3: Pipe Expanding Method	167
Appendix 4: List of Resistance for Temperature Sensor	168

1. Summary **Indoor Unit:** A1 panel A3 panel A5 panel **Outdoor Unit:** GWH07AGA-K6DNA1A/O GWH12AWBXB-K6DNA3F/O GWH24ATDXE-K6DNA1A/O



Technical Information • • • • • • • •

A2 panel

Remote Controller:

YAP1F7



YAY1F1



Model list:

No.	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1		CB574002000		CB574N02000	-	CB385W01100	
2		CB574002002		CB574N02000		CB385W01102	
3	CM/LIOZATAVA KEDNIAAD	CB574002003	CM/LIOZATAVA KEDALAAD/I	CB574N02003			
4	GWH07ATAXA-K6DNA1B	CB574002004	GWH07ATAXA-K6DNA1B/I	CB574N02004		CB385W01100	
5		CB574002006		CB574N02006			
6		CB574002007		CB574N02007		CB385W01107	VA D4 E7
7		CB585004000		CB585N04000	GWH07AGA-K6DNA1A/O		YAP1F7
8	GWH07ATAXA-K6DNA2B	CB585004001	GWH07ATAXA-K6DNA2B/I	CB585N04001			
9		CB585004003		CB585N04003			
10	CVALLOZATA VA IZCDALA OD	CB590002500	CM/I IOZATA VA IZCDALA OD/I	CB590N02500		CB385W01100	
11	GWH07ATAXA-K6DNA3B	CB590002501	GWH07ATAXA-K6DNA3B/I	CB590N02501			
12	CVAULOZATA VA LCONIA AD	CB595002200	CVALLOZATA VA IZCDALA 4D/L	CB595N02200			
13	GWH07ATAXA-K6DNA4B	CB595002201	GWH07ATAXA-K6DNA4B/I	CB595N02201			YAY1F1
14		CB574000600		CB574N00600			
15	GWH09ATAXB-K6DNA1B	CB574000601	GWH09ATAXB-K6DNA1B/I	CB574N00601		CB385W09900	YAP1F7
16		CB574000603		CB574N00603			
17		CB590003700		CB590N03700	GWH09AGAXB-K6DNA1B/O		
18	GWH09ATAXB-K6DNA3B	CB590003701	GWH09ATAXB-K6DNA3B/I	CB590N03701			
19		CB590003702		CB590N03702			
20	CVAULIONATA VEL MODALA AD	CB595002000	CVALLOCATA V.D. I/CDALA 4D/I	CB595N02000			
21	GWH09ATAXB-K6DNA4B	CB595002001	GWH09ATAXB-K6DNA4B/I	CB595N02001			YAY1F1
22		CB599001300		CB599N01300			
23	GWH09ATAXB-K6DNA5B	CB599001301	GWH09ATAXB-K6DNA5B/I	CB599N01301			
24		CB599001302		CB599N01302			
25	GWH09ATAXB-K6DNA2C	CB585007300	GWH09ATAXB-K6DNA2C/I	CB585N07300	CMI IOOAMAYD ICCDNIAACIO	CDC001M05400	
26	GWH09ATAXB-K6DNA3C	CB590009401	GWH09ATAXB-K6DNA3C/I	CB590N09401	GWH09AWAXB-K6DNA1C/O	CB603W05100	
27	CW/100ATDVD KCDNIAAD	CB574002100	CVVII IOO A TRYP I/CRNIA 4 R/I	CB574N02100	CWILIOOA CRYR KCRNIAAA (O	CD205\M47400	
28	GWH09ATBXB-K6DNA1B	CB574002102	GWH09ATBXB-K6DNA1B/I	CB574N02102	GWH09AGBXB-K6DNA1A/O	CB385W17100	
29	OWILLOOM TOWN KORNIA A	CB574000500	OVAULIONATOVED KODALA 4 A //	00574N00500		CB574W00500	YAP1F7
30	GWH09ATCXB-K6DNA1A	CB574000501	GWH09ATCXB-K6DNA1A/I	CB574N00500			
31	OVALLOO ATOVO LOODALA OA	CB585004101	OVAULOGATOVE KODALAGA U	CB585N04100			
32	GWH09ATCXB-K6DNA2A	CB585004102	GWH09ATCXB-K6DNA2A/I	CB585N04101	GWH09ATCXB-K6DNA1A/O	CB574W00501	
33	CM/I IOOATOVO MODALAGA	CB590002701	CVALLOO ATOVO LOODIA CA "	CB590N02700			
34	GWH09ATCXB-K6DNA3A	CB590002702	GWH09ATCXB-K6DNA3A/I	CB590N02702			
35	GWH09ATCXB-K6DNA4A	CB595003300	GWH09ATCXB-K6DNA4A/I	CB595N03300		CB574W00500	
36	GWH09ATCXB-K6DNA1B	CB574013500	GWH09ATCXB-K6DNA1A/I	CB574N00500	GWH09ATCXB-K6DNA1B/O	CB574W13500	

Technical Information

	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
37		CB574000800		CB574N00800			
38	GWH12ATBXB-K6DNA1D	CB574000801	GWH12ATBXB-K6DNA1D/I	CB574N00801	-		
39		CB574000803		CB574N00803			
40		CB590003800		CB590N03800			YAP1F7
41	GWH12ATBXB-K6DNA3D	CB590003801	GWH12ATBXB-K6DNA3D/I	CB590N03801			
42		CB590003802		CB590N03802			
43		CB595002300		CB595N02300	GWH12ATBXB-K6DNA1D/O	CB574W00800	
44	GWH12ATBXB-K6DNA4D	CB595002301	GWH12ATBXB-K6DNA4D/I	CB595N02301			YAY1F1
45		CB595002302		CB595N02302			
46		CB599001400		CB599N01400			
47	GWH12ATBXB-K6DNA5D	CB599001401	GWH12ATBXB-K6DNA5D/I	CB599N01401			YAP1F7
48	011112/11/2/12 110211/102	CB599001402	OWNIE WEST ROOM ROOM	CB599N01402			
49	GWH12ATBXB-K6DNA2F	CB585007200	GWH12ATBXB-K6DNA2F/I	CB585N07200			
50	GWH12ATBXB-K6DNA3F	CB590009302	GWH12ATBXB-K6DNA3F/I	CB590N09302	GWH12AWBXB-K6DNA3F/O	CB617W01300	YAY1F1
51	OWITIZAT BAB-RODINASI	CB590009302	GWITIZATBAB-RODINASI/I	CB3901109302		CB574W00702	
52	GWH12ATCXB-K6DNA1A	CB574000702	GWH12ATCXB-K6DNA1A/I	CB574N00700		CB574W00702	
53	OWITIZATOAD-RODINATA	CB574000700	GWITIZATOAD-RODINATA/I	CB3741100700		CB374W00700	
54		CB585004201		CB585N04200		CB574W00701	
55	GWH12ATCXB-K6DNA2A		GWH12ATCXB-K6DNA2A/I		GWH12ATCXB-K6DNA1A/O		
		CB585004202		CB585N04202	_		
56	GWH12ATCXB-K6DNA3A	CB590002601	GWH12ATCXB-K6DNA3A/I	CB590N02600			
57	OWNER OF TOWN	CB590002602	OVALLACATOVO KODALA AA II	CB590N02602		005744400700	
58	GWH12ATCXB-K6DNA4A	CB595003400	GWH12ATCXB-K6DNA4A/I	CB595N03400		CB574W00700	
59	GWH12ATCXB-K6DNA1D	CB574001800	GWH12ATCXB-K6DNA1D/I	CB574N01800	GWH12ATCXB-K6DNA1D/O	CB574W01800	
60	014/14/04/201/07/14/07/14/07	CB574001801	0,4,1,4,0,4,7,0,1,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,0,1,4,1,4	CB574N01801			
61	GWH12ATCXB-K6DNA4D	CB595001900	GWH12ATCXB-K6DNA4D/I	CB595N01900			
62	GWH12ATCXB-K6DNA5D	CB599002900	GWH12ATCXB-K6DNA5D/I	CB599N02900			
63		CB574002800		CB574N02800			
64	GWH18ATDXB-K6DNA1A	CB574002801	GWH18ATDXB-K6DNA1A/I	CB574N02801			
65		CB574002803		CB574N02803			
66		CB574002804		CB574N02804			
67	GWH18ATDXB-K6DNA2A	CB585004401	GWH18ATDXB-K6DNA2A/I	CB585N04401			
68		CB590003600		CB590N03600	GWH18ATDXB-K6DNA1A/O	CB574W02800	YAP1F7
69	GWH18ATDXB-K6DNA3A	CB590003601	GWH18ATDXB-K6DNA3A/I	CB590N03601	- GWITTOAT DAD-RODNATA/O		
70		CB590003603		CB590N03603	-		
71	GWH18ATDXB-K6DNA4A	CB595002100	GWH18ATDXB-K6DNA4A/I	CB595N02100			
72		CB595002103		CB595N02103			
73	GWH18ATDXB-K6DNA5A	CB599001500	GWH18ATDXB-K6DNA5A/I	CB599N01500			
74	OWITION I BAB ROBINAOA	CB599001501	OWITIO/(ID/O) (IODI(I/O)(I	CB599N01501			
75		CB574002700		CB574N02700		CB574W02700	
76	GWH18ATDXD-K6DNA1A	CB574002701	GWH18ATDXD-K6DNA1A/I	000741402700	_	CB574W02701	
77	OWITIOATENE ROBINATA	CB574002702		CB574N02702		00074002701	
78		CB574002703		CB574N02703		CB574W02703	
79	CWH18ATDVD VCDNACA	CB585004301	CWH18ATDVD KCDNA2A	CB585N04300			
	GWH18ATDXD-K6DNA2A	CB585004302	GWH18ATDXD-K6DNA2A/I	CB585N04302	GWH18ATDXD-K6DNA1A/O	CB574\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
80		0050000004		CB590N02800		CB574W02701	
		CB590002801	CIVITATO VED INCOMING VI			1	
80	GWH18ATDXD-K6DNA3A	CB590002801 CB590002802	GWH18ATDXD-K6DNA3A/I	CB590N02802			
80 81	GWH18ATDXD-K6DNA3A GWH18ATDXD-K6DNA4A		GWH18ATDXD-K6DNA3A/I GWH18ATDXD-K6DNA4A/I	CB590N02802 CB595N03100		CB574W02700	

No.	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
86		CB574002900		CB574N02900	_		
87		CB574002901		CB574N02901			
88	GWH24ATDXE-K6DNA1A	CB574002902	GWH24ATDXE-K6DNA1A/I	CB574N02902			
89		CB574002904		CB574N02904			
90		CB574002906		CB574N02906			
91	CM// IOAATDVE //CDN/AOA	CB585000100	CVALLO4ATDVE ICONIA CA //	CB585N00100			
92	GWH24ATDXE-K6DNA2A	CB585000103	GWH24ATDXE-K6DNA2A/I	CB585N00103			
93		CB590001100		CB590N01100	CVAULICA ATRYE KORNIA A A (O	CD5741M00000	
94	OWILIO AATDVE KODNIA OA	CB590001101	OVAULO 4 ATRIVE I CORNIA O A U	CB590N01101	GWH24ATDXE-K6DNA1A/O	CB574W02900	YAP1F7
95	GWH24ATDXE-K6DNA3A	CB590001103	GWH24ATDXE-K6DNA3A/I	CB590N01103			
96		CB590001106		CB590N01106			
97		CB595000700		CB595N00700			
98	GWH24ATDXE-K6DNA4A	CB595000701	GWH24ATDXE-K6DNA4A/I	CB595N00701			
99		CB595000705		CB595N00705			
100	CM// IOAATDVE KCDNIAEA	CB599001200	CVALLO 4 AT DVE IZCONIA EA /I	CB599N01200			
101	GWH24ATDXE-K6DNA5A	CB599001201	GWH24ATDXE-K6DNA5A/I	CB599N01201			
102		CB574001900	0	CDE74NO4000		CB363W04100	
103	GWH24ATEXF-K6DNA1A	CB574001901	GWH24ATEXF-K6DNA1A/I	CB574N01900		CB363W04101	
104		CB574001905		CB574N01905		CB363W04105	
105	CM/IDAATEVE KODNIAGA	CB585003900	CIAILIQAATEVE ICONIA QA II	CB585N03900			
106	GWH24ATEXF-K6DNA2A	CB585003901	GWH24ATEXF-K6DNA2A/I	CB585N03901	0\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
107	OWILLO AATEVE KODNIA OA	CB590002400	OWN IS ANTENE LOOPING A II	CB590N02400	_	CB363W04100	
108	GWH24ATEXF-K6DNA3A	CB590002401	GWH24ATEXF-K6DNA3A/I	CB590N02401			
109	OWILIO ANTENE MORNIA AA	CB595003201	OWN IO ANTENE LOOPING AS "	ODEOENIOOSSA		CB363W04101	
110	GWH24ATEXF-K6DNA4A	CB595003204	GWH24ATEXF-K6DNA4A/I	CB595N03201		OD000\4/0.4100	
111	GWH24ATEXF-K6DNA5A	CB599007000	GWH24ATEXF-K6DNA5A/I	CB599N07000		CB363W04100	

Technical Information

2. Specifications

2.1 Specification Sheet

Model		-	1. GWH07ATAXA-K6DNA1B 2. GWH07ATAXA-K6DNA2B 3. GWH07ATAXA-K6DNA3B 4. GWH07ATAXA-K6DNA4B	GWH07ATAXA-K6DNA4B		
Product	Code	-	1. CB574002000/CB574002002/ CB574002003/CB574002006 2. CB585004000/CB585004001/ CB585004003 3. CB590002500/CB590002501 4. CB595002200/CB595002201	CB574002004		
	Rated Voltage	V~	220-	240		
Power	Rated Frequency	Hz	50			
Supply	Phases	-	1			
ower S	Supply Mode	-	Outo	loor		
	Capacity	W	220			
	Capacity	W	24(
	Power Input	W	59			
	Power Input	W	59			
	Power Current	A	2.			
	Power Current	A	2.			
Rated In		W	130			
	cooling Current	A	5			
	leating Current	A	<u></u> 6			
	Volume	m ³ /h	500/470/450/42			
	difying Volume	L/h	0.			
EER	anying volume	W/W	3.7			
COP		W/W	4.0			
SEER		V V / V V	6.			
	Average/Warmer/Colder)	-	4.0/4.8/-			
	ion Area	m ²	10-16			
Аррисац	ion Area	III		10		
	Model of indoor unit	-	1. GWH07ATAXA-K6DNA1B/I 2. GWH07ATAXA-K6DNA2B/I 3. GWH07ATAXA-K6DNA3B/I 4. GWH07ATAXA-K6DNA4B/I	GWH07ATAXA-K6DNA4B/I		
	Indoor Unit Product Code	-	1. CB574N02000/CB574N02001/ CB574N02003/CB574N02006 2. CB585N04000/CB585N04001/ CB585N04003 3. CB590N02500/CB590N02501 4. CB595N02200/CB595N02201	CB574N02004		
	Fan Type	-	Cross	-flow		
	Fan Diameter Length(DXL)	mm	Ф92×	:505		
	Cooling Speed	r/min	1300/1200/1120/1	050/920/800/750		
	Heating Speed	r/min	1300/1200/1120/1	050/950/850/800		
	Fan Motor Power Output	W	20)		
	Fan Motor RLA	А	0.2	22		
Indoor	Fan Motor Capacitor	μF	1			
Unit	Evaporator Form	-	Aluminum Fin-	-copper Tube		
-	Evaporator Pipe Diameter	mm	Ф:			
	Evaporator Row-fin Gap	mm	2-1	.4		
	Evaporator Coil Length (LXDXW)	mm	509×22.8	3×266.7		
	Swing Motor Model	-	MP24HF/MP24HF	MP24HF		
	Swing Motor Power Output	W	1.5/1.5	1.5		
	Fuse Current	Α	3.1			
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/33/29/25/22 Heating: 38/36/33/32/29/25/23			
	Sound Power Level	dB (A)	Cooling: 55/49/4 Heating: 55/49/4	46/45/41/37/34 46/45/42/38/36		
	Dimension (WXHXD)	mm	708X26	0X185		
	Dimension of Carton Box (LXWXH)	mm	748X31	6X247		
	Dimension of Package (LXWXH)	mm	753X33	2X258		
	Net Weight	kg	7.			
	-	kg	9			

	Outdoor Unit Model	-	GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code	-	CB385W01100/CB385W01102
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N075zC170
	Compressor Oil	-	FW68DA
	Compressor Type	-	Rotary
	Compressor LRA.	А	/
	Compressor RLA	А	3
	Compressor Power Input	W	633
	Compressor Overload Protector	-	/
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	930±20
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	1400
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф350
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X525
	Net Weight	kg	21
	Gross Weight	kg	23
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.45
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe		inch	3/8
ripe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

6 Technical Information

Model		-	GWH07ATAXA-K6DNA1B
Product	Code	-	CB574002007
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	2200
Heating	Capacity	W	2400
Cooling	Power Input	W	590
Heating	Power Input	W	590
Cooling	Power Current	Α	2.9
Heating	Power Current	Α	2.9
Rated In	put	W	1300
Rated C	ooling Current	Α	5
Rated H	eating Current	Α	6
Air Flow	Volume	m³/h	500/470/450/420/310/290/250
Dehumid	difying Volume	L/h	0.60
EER		W/W	3.73
COP		W/W	4.07
SEER		-	6.6
SCOP (A	Average/Warmer/Colder)	-	4.0/4.8/-
Applicati	ion Area	m^2	10-16
	Model of indoor unit	-	GWH07ATAXA-K6DNA1B/I
	Indoor Unit Product Code	-	CB574N02007
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф92×505
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor	Evaporator Row-fin Gap	mm	2-1.4
Unit	Evaporator Coil Length (LXDXW)	mm	509×22.8×266.7
	Swing Motor Model	-	MP24HF/MP24HF
	Swing Motor Power Output	W	1.5/1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/33/29/25/22 Heating: 38/36/33/32/29/25/23
	Sound Power Level	dB (A)	Cooling: 55/49/46/45/41/37/34 Heating: 55/49/46/45/42/38/36
	Dimension (WXHXD)	mm	708X260X185
	Dimension of Carton Box (LXWXH)	mm	773X327X266
	Dimension of Package (LXWXH)	mm	776X330X281
	Net Weight	kg	7
	Gross Weight	kg	10.0

	Outdoor Unit Model	-	GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code	-	CB385W01107
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N075zC170
	Compressor Oil	-	FW68DA
	Compressor Type	-	Rotary
	Compressor LRA.	А	/
	Compressor RLA	Α	3
	Compressor Power Input	W	633
	Compressor Overload Protector	-	I
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	637×12.7×419
	Fan Motor Speed	rpm	950
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1400
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф350
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	_	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X530
	Net Weight	kg	21
	Gross Weight	kg	25
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.45
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection		inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter		10
	Tradic. The conhection pipe applies metric diamete	<i>-</i> 1.	

8 Technical Information

Model		-	GWH09ATAXB-K6DNA1B GWH09ATAXB-K6DNA3B GWH09ATAXB-K6DNA4B GWH09ATAXB-K6DNA5B	GWH09ATAXB-K6DNA1B GWH09ATAXB-K6DNA3B GWH09ATAXB-K6DNA5B		
Product	Code	-	CB574000600/CB574000601 CB590003700/CB590003701 CB595002000/CB595002001 CB599001300/CB599001301	CB574000603 CB590003702 CB599001302		
_	Rated Voltage	V~	220-2	240		
Power Supply	Rated Frequency	Hz	50)		
Oupply	Phases	-	1			
Power S	Supply Mode	-	Outdo	oor		
Cooling	Capacity	W	250	00		
leating	Capacity	W	280	00		
Cooling	Power Input	W	680	0		
leating	Power Input	W	730	0		
Cooling	Power Current	Α	3.1	1		
leating	Power Current	Α	3.2	2		
Rated In	put	W	150	00		
	ooling Current	А	6			
	eating Current	А	7.5	5		
	Volume	m³/h	500/470/430/390	0/320/270/250		
ehumic	difying Volume	L/h	0.6	6		
ER	, ,	W/W	3.6	8		
OP		W/W	3.8	4		
SEER		-	6.6			
SCOP (Average/Warmer/Colder)		-	4.1/5.1/-			
	ion Area	m ²	10-16			
	Model of indoor unit	-	GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA3B/I GWH09ATAXB-K6DNA4B/I GWH09ATAXB-K6DNA5B/I	GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA3B/I GWH09ATAXB-K6DNA5B/I		
	Indoor Unit Product Code	-	CB574N00600/CB574N00601 CB590N03700/CB590N03701 CB595N02000/CB595N02001 CB599N01300/CB599N01301	CB574N00603 CB590N03702 CB599N01302		
	Fan Type	-	Cross-	-flow		
	Fan Diameter Length(DXL)	mm	Ф92×	505		
	Cooling Speed	r/min	1300/1200/1120/10	050/920/800/750		
	Heating Speed	r/min	1300/1200/1120/10	050/950/850/800		
	Fan Motor Power Output	W	20			
	Fan Motor RLA	Α	0.2	2		
	Fan Motor Capacitor	μF	1			
ndoor	Evaporator Form	-	Aluminum Fin-	copper Tube		
Unit	Evaporator Pipe Diameter	mm	Ф5	5		
	Evaporator Row-fin Gap	mm	2-1.	.4		
	Evaporator Coil Length (LXDXW)	mm	509×22.8	3×266.7		
	Swing Motor Model	-	MP24HF/MP24HF	MP24HF		
	Swing Motor Power Output	W	1.5/1.5	1.5		
	Fuse Current	Α	3.1	5		
	Sound Pressure Level	dB (A)	Cooling: 38/36/3 Heating: 38/36/3	34/32/29/25/23		
	Sound Power Level	dB (A)	Cooling: 55/48/4 Heating: 55/48/4	16/44/41/37/35		
	Dimension (WXHXD)	mm	708X260			
	Dimension of Carton Box (LXWXH)	mm	748X316	6X247		
	Dimension of Package (LXWXH)	mm	753X332	2X258		
	Net Weight	kg	7			
	Gross Weight	kg	8.5	5		

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

	Outdoor Unit Model	-	GWH09AGAXB-K6DNA1B/O
	Outdoor Unit Product Code	-	CB385W09900
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A082zC170
	Compressor Oil	-	ZE-G;ES RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	15
	Compressor RLA	Α	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector	-	/
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	<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	dB (A)	50
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.48
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe			
	Outer Diameter Gas Pipe	inch	3/8
	Outer Diameter Gas Pipe	inch m	3/8 10
	Outer Diameter Gas Pipe Max Distance Height Max Distance Length	-	

Model		-	GWH09ATAXB-K6DNA2C GWH09ATAXB-K6DNA3C
Product	Code	-	CB585007300 CB590009401
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Cuppiy	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	2500
Heating	Capacity	W	2800
Cooling	Power Input	W	660
Heating	Power Input	W	700
Cooling	Power Current	Α	3.1
Heating	Power Current	Α	3.2
Rated In	put	W	1500
Rated C	ooling Current	А	6
Rated H	eating Current	А	7.5
Air Flow	Volume	m³/h	500/470/430/390/320/270/250
Dehumid	difying Volume	L/h	0.6
EER		W/W	3.79
COP		W/W	4
SEER		-	6.8
SCOP (SCOP (Average/Warmer/Colder)		4.1/5.1/-
Applicati	ion Area	m²	10-16
	Model of indoor unit	-	GWH09ATAXB-K6DNA2C/I GWH09ATAXB-K6DNA3C/I
	Indoor Unit Product Code	-	CB585N07300 CB590N09401
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф92×505
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800
	Fan Motor Power Output	W	20
	Fan Motor RLA	Α	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	509×22.8×266.7
	Swing Motor Model	-	MP24HF
	Swing Motor Power Output	W	1.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 40/38/36/33/29/25/22 Heating: 39/36/34/32/29/26/24
	Sound Power Level	dB (A)	Cooling: 55/51/49/46/42/38/35 Heating: 55/52/49/47/45/42/39
	Dimension (WXHXD)	mm	735X260X190
	Dimension of Carton Box (LXWXH)	mm	780X316X252
	Dimension of Package (LXWXH)	mm	785X332X263
	Net Weight	kg	7.5
	Gross Weight	kg	9

	Outdoor Unit Model	-	GWH09AWAXB-K6DNA1C/O
	Outdoor Unit Product Code	-	CB603W05100
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N082zC170
	Compressor Oil	-	RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	/
	Compressor RLA	А	3.4
	Compressor Power Input	W	630
	Compressor Overload Protector	-	
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	/
Unit	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for	MDa	
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	23.5
	Gross Weight	kg	26
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.48
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
i ipe	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model	del - GWH09ATBXB-K6DNA1B		GWH09ATBXB-K6DNA1B	
Product	Product Code		CB574002100/CB574002102	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	2700	
Heating	Capacity	W	2800	
Cooling	Power Input	W	725	
Heating	Power Input	W	685	
Cooling	Power Current	Α	3.45	
Heating	Power Current	Α	3.19	
Rated In	put	W	1500	
Rated C	ooling Current	Α	6	
Rated H	eating Current	Α	7.5	
Air Flow	Volume	m³/h	550/520/480/400/340/310/280	
Dehumi	difying Volume	L/h	0.8	
EER		W/W	3.72	
COP		W/W	4.09	
SEER		-	6.8	
SCOP (Average/Warmer/Colder)	-	4.2/5.3/-	
Applicat	ion Area	m²	10-16	
	Model of indoor unit	-	GWH09ATBXB-K6DNA1B/I	
	Indoor Unit Product Code	-	CB574N02100/CB574N02102	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф92×580	
	Cooling Speed	r/min	1300/1200/1120/1050/920/800/750	
	Heating Speed	r/min	1300/1200/1120/1050/950/850/800	
	Fan Motor Power Output	W	20	
	Fan Motor RLA	Α	0.22	
	Fan Motor Capacitor	μF	1	
	Evaporator Form	-	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
Indoor	Evaporator Row-fin Gap	mm	2-1.4	
Unit	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7	
	Swing Motor Model	-	MP24HF/MP24HF	
	Swing Motor Power Output	W	1.5/1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 40/37/35/33/29/26/21 Heating: 40/37/35/33/30/26/24	
	Sound Power Level	dB (A)	Cooling: 56/49/47/45/41/37/34 Heating: 55/49/47/45/42/38/35	
	Dimension (WXHXD)	mm	783X260X185	
	Dimension of Carton Box (LXWXH)	mm	823X316X247	
	Dimension of Package (LXWXH)	mm	828X332X258	
	Net Weight	kg	8	
	Gross Weight	kg	9.5	

	Outdoor Unit Model	-	GWH09AGBXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB385W17100
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A082zC170
	Compressor Oil	-	ZE-G;ES RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	15
	Compressor RLA	А	2.56
	Compressor Power Input	W	757
	Compressor Overload Protector	-	1
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	I
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	51
	Sound Power Level	dB (A)	60
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH09ATCXB-K6DNA1A GWH09ATCXB-K6DNA4A	GWH09ATCXB-K6DNA1A GWH09ATCXB-K6DNA2A GWH09ATCXB-K6DNA3A	
Product	Product Code		CB574000500 CB595003300	CB574000501 CB585004101/CB585004102 CB590002701/CB590002702	
	Rated Voltage	V~	220-2	240	
Power Supply Rated Frequency		Hz	50		
Барріу	Phases	-	1		
Power S	Supply Mode	-	Outd	oor	
Cooling	Capacity	W	270	00	
leating	Capacity	W	300	00	
Cooling	Power Input	W	680	0	
leating	Power Input	W	680	0	
Cooling	Power Current	Α	3.2	2	
leating	Power Current	А	3.2	2	
Rated Ir	put	W	140	00	
Rated C	cooling Current	А	6		
Rated H	leating Current	А	6.2	2	
ir Flow	Volume	m³/h	610/530/500/440/3	380/310/280/180	
Dehumi	difying Volume	L/h	3.0	3	
EER		W/W	3.9	7	
COP		W/W	4.4	1	
SEER		-	8.4		
SCOP (Average/Warmer/Colder)	-	4.5/5.6/3.5		
Applicat	ion Area	m ²	12-1	18	
	Model of indoor unit	-	GWH09ATCXB-K6DNA1A/I GWH09ATCXB-K6DNA4A/I	GWH09ATCXB-K6DNA1A/I GWH09ATCXB-K6DNA2A/I GWH09ATCXB-K6DNA3A/I	
	Indoor Unit Product Code	-	CB574N00500 CB595N03300	CB574N00500 CB585N04100/CB585N04101 CB590N02700/CB590N02702	
	Fan Type	-	Cross-	flow	
	Fan Diameter Length(DXL)	mm	Ф94×	630	
	Cooling Speed	r/min	1250/1100/1050/950/800/700/650/500		
	Heating Speed	r/min	1250/1100 /1040/9	950/900/880/850	
	Fan Motor Power Output	W	15	;	
	Fan Motor RLA	Α	0.2	2	
	Fan Motor Capacitor	μF	/		
	Evaporator Form	-	Aluminum Fin-	copper Tube	
Indoor	Evaporator Pipe Diameter	mm	Ф5	5	
Unit	Evaporator Row-fin Gap	mm	2-1.	.3	
	Evaporator Coil Length (LXDXW)	mm	634×22.8	3×266.7	
	Swing Motor Model	-	MP24HF/N	MP24HF	
	Swing Motor Power Output	W	1.5/1	1.5	
	Fuse Current	А	3.1	5	
	Sound Pressure Level	dB (A)	Cooling: 39/36/34 Heating: 39/36/3	34/31/30/29/27	
	Sound Power Level	dB (A)	Cooling: 58/50/48/45/40/38/36/35 Heating: 58/50/48/45/44/43/41		
	Dimension (WXHXD)	mm	835X275	5X200	
	Dimension of Carton Box (LXWXH)	mm	890X329	9X260	
	Dimension of Package (LXWXH)	mm	895X34	5X271	
	Net Weight	kg	9		
	Gross Weight	kg	11		

	Outdoor Unit Model	-	GWH09ATCXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W00500 CB574W00501
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A082zC170
	Compressor Oil	-	ZE-G;ES RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	15
	Compressor RLA	Α	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector	-	1
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30 -15~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.51
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
. 120	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

Model - GWH09ATCXB-K6DNA1B		GWH09ATCXB-K6DNA1B		
Product	Code	-	CB574013500	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	2700	
Heating	Capacity	W	3000	
Cooling	Power Input	W	680	
Heating	Power Input	W	680	
Cooling	Power Current	Α	3.2	
Heating	Power Current	Α	3.2	
Rated In	nput	W	1400	
Rated C	cooling Current	А	6	
Rated H	leating Current	А	6.2	
Air Flow	Volume	m³/h	610/530/500/440/380/310/280/180	
Dehumic	difying Volume	L/h	0.8	
EER		W/W	3.97	
COP		W/W	4.41	
SEER		-	8.4	
SCOP (/	Average/Warmer/Colder)	-	4.5/5.6/3.5	
Applicati	ion Area	m ²	12-18	
	Model of indoor unit	-	GWH09ATCXB-K6DNA1A/I	
	Indoor Unit Product Code	-	CB574N00500	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф94×630	
	Cooling Speed	r/min	1250/1100 /1050/950/800/700/650/500	
	Heating Speed	r/min	1250/1100 /1040/950/900/880/850	
	Fan Motor Power Output	W	15	
	Fan Motor RLA	Α	0.22	
	Fan Motor Capacitor	μF	1	
	Evaporator Form	-	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
	Evaporator Row-fin Gap	mm	2-1.3	
Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×266.7	
	Swing Motor Model	-	MP24HF	
	Swing Motor Power Output	W	1.5	
	Fuse Current	А	3.15	
	Sound Pressure Level	dB (A)	Cooling: 39/36/34/31/26/24/22/21 Heating: 39/36/34/31/30/29/27	
	Sound Power Level	dB (A)	Cooling: 58/50/48/45/40/38/36/35 Heating: 58/50/48/45/44/43/41	
	Dimension (WXHXD)	mm	835X275X200	
	Dimension of Carton Box (LXWXH)	mm	890X329X260	
	Dimension of Package (LXWXH)	mm	895X345X271	
	Net Weight	kg	9	
	Gross Weight	kg	11	

	Outdoor Unit Model	-	GWH09ATCXB-K6DNA1B/O
	Outdoor Unit Product Code	-	CB574W13500
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A082zC170
	Compressor Oil	-	ZE-G;ES RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	15
	Compressor RLA	А	2.56
	Compressor Power Input	W	756.6
	Compressor Overload Protector	-	1
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form	_	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	850
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	51
	Sound Power Level	dB (A)	61
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.51
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe			
	Max Distance Height	m	10
	Max Distance Height Max Distance Length	m m	10 15

Model		-	GWH12ATBXB-K6DNA1D GWH12ATBXB-K6DNA3D GWH12ATBXB-K6DNA4D GWH12ATBXB-K6DNA5D	GWH12ATBXB-K6DNA1D GWH12ATBXB-K6DNA3D GWH12ATBXB-K6DNA5D	
Product	Code	-	CB574000800/CB574000801 CB590003800/CB590003801 CB595002300/CB595002301/ CB595002302 CB599001400/CB599001401	CB574000803 CB590003802 CB599001402	
	Rated Voltage	V~	220-2	240	
Power Supply	Rated Frequency	Hz	50)	
Cupply	Phases	-	1		
Power S	Supply Mode	-	Outd	oor	
Cooling	Capacity	W	320	00	
	Capacity	W	340	00	
Cooling	Power Input	W	99	1	
	Power Input	W	910	6	
	Power Current	Α	4.4	4	
Heating	Power Current	Α	4		
Rated In	•	W	150	00	
Rated C	ooling Current	А	6		
Rated H	eating Current	Α	7.5	5	
Air Flow	Volume	m³/h	590/520/480/40	0/350/320/280	
Dehumic	difying Volume	L/h	1.4	4	
EER		W/W	3.2	3	
COP		W/W	3.7	1	
SEER		-	6.1		
SCOP (Average/Warmer/Colder)	-	4.0/5.1/-		
Applicati	ion Area	m ²	15-2	22	
	Model of indoor unit	-	GWH12ATBXB-K6DNA1D/I GWH12ATBXB-K6DNA3D/I GWH12ATBXB-K6DNA4D/I GWH12ATBXB-K6DNA5D/I	GWH12ATBXB-K6DNA1D/I GWH12ATBXB-K6DNA3D/I GWH12ATBXB-K6DNA5D/I	
	Indoor Unit Product Code	-	CB574N00800/CB574N00801 CB590N03800/CB590N03801 CB595N02300/CB595N02301/ CB595N02302 CB599N01400/CB599N01401	CB574N00803 CB590N03802 CB599N01402	
	Fan Type	-	Cross-	-flow	
	Fan Diameter Length(DXL)	mm	Ф92×580		
	Cooling Speed	r/min	1350/1200/1120/1	1350/1200/1120/1050/950/850/750	
	Heating Speed	r/min	1350/1200/1120/1	050/990/920/850	
	Fan Motor Power Output	W	20)	
	Fan Motor RLA	Α	0.2	2	
	Fan Motor Capacitor	μF	1		
	Evaporator Form	-	Aluminum Fin-	copper Tube	
Indoor	•				
Indoor	Evaporator Pipe Diameter	mm	Ф5	•••	
Indoor Unit	•	mm mm	Φξ 2-1	5	
Indoor Unit	Evaporator Pipe Diameter			5.4	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model	mm mm -	2-1 584×22.8 MP24HF/MP24HF	5.4 .4 8×266.7 MP24HF	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model Swing Motor Power Output	mm mm	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5	5.4 .4 8×266.7 MP24HF 1.5	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model	mm mm -	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5	5.4 .4 8×266.7 MP24HF 1.5	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model Swing Motor Power Output	mm mm - W	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5 3.1 Cooling: 41/37/3 Heating: 41/37/3	5.4 .4 .8×266.7 MP24HF 1.5 5 .85/33/30/26/24 .85/33/31/28/25	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model Swing Motor Power Output Fuse Current Sound Pressure Level Sound Power Level	mm mm - W A	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5 3.1 Cooling: 41/37/3 Heating: 41/37/3 Cooling: 55/49/4 Heating: 53/49/4	5.4 .4 .8×266.7 MP24HF 1.5 5 .85/33/30/26/24 .85/33/31/28/25 .87/45/42/38/36 .87/45/43/40/37	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model Swing Motor Power Output Fuse Current Sound Pressure Level Dimension (WXHXD)	mm - W A dB (A) dB (A) mm	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5 3.1 Cooling: 41/37/3 Heating: 41/37/3 Cooling: 55/49/4 Heating: 53/49/4 783X26	5.4 .4 .8×266.7 MP24HF 1.5 5 .85/33/30/26/24 .85/33/31/28/25 .87/45/42/38/36 .87/45/43/40/37 0X185	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model Swing Motor Power Output Fuse Current Sound Pressure Level Sound Power Level Dimension (WXHXD) Dimension of Carton Box (LXWXH)	mm - W A dB (A) dB (A) mm mm	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5 3.1 Cooling: 41/37/3 Heating: 41/37/3 Cooling: 55/49/4 Heating: 53/49/4 783X260 823X310	5.4 .4 .8×266.7 MP24HF 1.5 5 .85/33/30/26/24 .85/33/31/28/25 .87/45/42/38/36 .87/45/43/40/37 0X185 6X247	
Indoor Unit	Evaporator Pipe Diameter Evaporator Row-fin Gap Evaporator Coil Length (LXDXW) Swing Motor Model Swing Motor Power Output Fuse Current Sound Pressure Level Dimension (WXHXD)	mm - W A dB (A) dB (A) mm	2-1 584×22.8 MP24HF/MP24HF 1.5/1.5 3.1 Cooling: 41/37/3 Heating: 41/37/3 Cooling: 55/49/4 Heating: 53/49/4 783X26	MP24HF 1.5 5 5 MP24HF 1.5 5 5 5 5 5 5 5 5 5 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7	

	Outdoor Unit Model	-	GWH12ATBXB-K6DNA1D/O
	Outdoor Unit Product Code	-	CB574W00800
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N088zC170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	
	Compressor RLA	А	3.6
	Compressor Power Input	W	758
	Compressor Overload Protector	-	
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MDa	
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
_	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
, ipe	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH12ATBXB-K6DNA2F GWH12ATBXB-K6DNA3F	
Product	Code	-	CB585007200 CB590009302	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Сарріу	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	3200	
Heating	Capacity	W	3400	
Cooling	Power Input	W	991	
Heating	Power Input	W	916	
Cooling	Power Current	Α	4.9	
Heating	Power Current	Α	4.4	
Rated In	put	W	1450	
Rated C	ooling Current	Α	6.3	
Rated H	eating Current	А	6.7	
Air Flow	Volume	m³/h	590/520/480/400/350/320/280	
Dehumid	difying Volume	L/h	1.4	
EER		W/W	3.23	
COP		W/W	3.71	
SEER		-	6.5	
SCOP (Average/Warmer/Colder)	-	4.1/5.1/-	
Applicati	ion Area	m²	15-22	
	Model of indoor unit	-	GWH12ATBXB-K6DNA2F/I GWH12ATBXB-K6DNA3F/I	
	Indoor Unit Product Code	-	CB585N07200 CB590N09302	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф92×580	
	Cooling Speed	r/min	1350/1200/1120/1050/950/850/750	
	Heating Speed	r/min	1350/1200/1120/1050/990/920/850	
	Fan Motor Power Output	W	20	
	Fan Motor RLA	Α	0.22	
	Fan Motor Capacitor	μF	1	
	Evaporator Form	-	Aluminum Fin-copper Tube	
ا - المصا	Evaporator Pipe Diameter	mm	Ф5	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	
	Evaporator Coil Length (LXDXW)	mm	584×22.8×266.7	
	Swing Motor Model	-	MP24HF	
	Swing Motor Power Output	W	1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 41/37/35/33/30/26/24 Heating: 41/37/35/33/31/28/25	
	Sound Power Level	dB (A)	Cooling: 57/49/47/45/42/38/36 Heating: 53/49/47/45/43/40/37	
	Dimension (WXHXD)	mm	783X260X185	
	Dimension of Carton Box (LXWXH)	mm	823X316X247	
	Dimension of Package (LXWXH)	mm	828X332X258	
	Net Weight	kg	7.5	
	Gross Weight	kg	9	

	Outdoor Unit Model	-	GWH12AWBXB-K6DNA3F/O
	Outdoor Unit Product Code	-	CB617W01300
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A098zC170H(modified)
	Compressor Oil	-	RB68GX or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	
	Compressor RLA	А	4.2
	Compressor Power Input	W	862
	Compressor Overload Protector	-	/
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	 1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	/
	Climate Type	_	 T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MDa	
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	24.5
	Gross Weight	kg	27
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.6
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
_	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
. ipo	Max Distance Height	m	10
	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH12ATCXB-K6DNA1A GWH12ATCXB-K6DNA4A	GWH12ATCXB-K6DNA1A GWH12ATCXB-K6DNA2A GWH12ATCXB-K6DNA3A	
Product	Product Code		CB574000700 CB595003400	CB574000701 CB585004201/CB585004202 CB590002601/CB590002602	
	Rated Voltage	V~	220-2	240	
Power Supply Rated Frequency		Hz	50		
Оирріу	Phases	-	1		
Power S	Supply Mode	-	Outd	oor	
Cooling	Capacity	W	351	0	
Heating	Capacity	W	381	10	
Cooling	Power Input	W	96.	2	
Heating	Power Input	W	95	3	
Cooling	Power Current	А	4.6	6	
Heating	Power Current	А	4.7	7	
Rated In	put	W	180	00	
Rated C	ooling Current	А	9.6	9	
Rated H	eating Current	А	8		
Air Flow	Volume	m³/h	650/580/530/44	0/380/330/310	
Dehumi	difying Volume	L/h	1.4	4	
ER		W/W	3.6	55	
COP		W/W	4.0	0	
SEER		-	7.1		
COP (Average/Warmer/Colder)	-	4.1/5.2/3.1		
Applicat	ion Area	m ²	16-2	24	
	Model of indoor unit	-	GWH12ATCXB-K6DNA1A/I GWH12ATCXB-K6DNA4A/I	GWH12ATCXB-K6DNA1A/I GWH12ATCXB-K6DNA2A/I GWH12ATCXB-K6DNA3A/I	
	Indoor Unit Product Code	-	CB574N00700 CB595N03400	CB574N00700 CB585N04200/CB585N04202 CB590N02600/CB590N02602	
	Fan Type	-	Cross	-flow	
	Fan Diameter Length(DXL)	mm	Ф94×630		
	Cooling Speed	r/min	1350/1200/1100/100	0/920/850/750/500	
	Heating Speed	r/min	1300/1200/1120/1	050/980/900/850	
	Fan Motor Power Output	W	15	5	
	Fan Motor RLA	А	0.2	2	
	Fan Motor Capacitor	μF	/		
	Evaporator Form	-	Aluminum Fin-	copper Tube	
Indoor	Evaporator Pipe Diameter	mm	Ф	5	
Unit	Evaporator Row-fin Gap	mm	2-1	.3	
	Evaporator Coil Length (LXDXW)	mm	634×22.8	3×266.7	
	Swing Motor Model	-	MP24HF/I	MP24HF	
	Swing Motor Power Output	W	1.5/	1.5	
	Fuse Current	А	3.1	5	
	Sound Pressure Level	dB (A)	Cooling: 43/39/3 Heating: 41/38/3	36/34/32/29/27	
	Sound Power Level	dB (A)	Cooling: 59/51/49/46/43/40/37 Heating: 55/52/50/48/46/43/41		
	Dimension (WXHXD)	mm	835X275X200		
	Dimension of Carton Box (LXWXH)	mm	890X32	9X260	
	Dimension of Package (LXWXH)	mm	895X34	5X271	
	Net Weight	kg	9	9	
	Gross Weight	kg	11		

	Outdoor Unit Model	-	GWH12ATCXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W00700 CB574W00701
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-AN108ACBD
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	/
	Compressor RLA	А	4.4
	Compressor Power Input	W	/
	Compressor Overload Protector	-	/
	Throttling Method	-	Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30 -15~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for	MPa	4.3
	the Discharge Side Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	62
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25.5
	Gross Weight	kg	28
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection		inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length		15
-		m	10
	Note: The connection pipe applies metric diameter	≓ 1.	

24 Technical Information

Model		-	GWH12ATCXB-K6DNA1A	
Product Code		-	CB574000702	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	3510	
Heating	Capacity	W	3810	
Cooling	Power Input	W	962	
Heating	Power Input	W	953	
Cooling	Power Current	Α	4.6	
Heating	Power Current	Α	4.7	
Rated In	put	W	1800	
Rated C	ooling Current	А	6.9	
Rated H	eating Current	Α	8	
Air Flow	Volume	m³/h	650/580/530/440/380/330/310	
Dehumic	difying Volume	L/h	1.4	
EER		W/W	3.65	
СОР		W/W	4.00	
SEER		-	7.1	
SCOP (/	Average/Warmer/Colder)	-	4.1/5.2/3.1	
Application Area		m ²	16-24	
	Model of indoor unit	-	GWH12ATCXB-K6DNA1A/I	
	Indoor Unit Product Code	-	CB574N00700	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф94×630	
	Cooling Speed	r/min	1350/1200/1100/1000/920/850/750/500	
	Heating Speed	r/min	1300/1200/1120/1050/980/900/850	
	Fan Motor Power Output	W	15	
	Fan Motor RLA	Α	0.2	
	Fan Motor Capacitor	μF	/	
	Evaporator Form	-	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
Indoor	Evaporator Row-fin Gap	mm	2-1.3	
Unit	Evaporator Coil Length (LXDXW)	mm	634×22.8×266.7	
	Swing Motor Model	-	MP24HF/MP24HF	
	Swing Motor Power Output	W	1.5/1.5	
	Fuse Current	А	3.15	
	Sound Pressure Level	dB (A)	Cooling: 43/39/37/34/31/28/25 Heating: 41/38/36/34/32/29/27	
	Sound Power Level	dB (A)	Cooling: 59/51/49/46/43/40/37 Heating: 55/52/50/48/46/43/41	
	Dimension (WXHXD)	mm	835X275X200	
	Dimension of Carton Box (LXWXH)	mm	890X329X260	
	Dimension of Package (LXWXH)	mm	895X345X271	
	Net Weight	kg	9	
C	Gross Weight	kg	11	

	Outdoor Unit Model	-	GWH12ATCXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W00702
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-AN108ACBD
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	/
	Compressor RLA	А	4.4
	Compressor Power Input	W	1
	Compressor Overload Protector	-	1
	Throttling Method	-	Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	666×19.05×527
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	I
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	62
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25.5
	Gross Weight	kg	28
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
_	Note: The connection pipe applies metric diameter	er.	

26 Technical Information

Model		-	GWH12ATCXB-K6DNA1D GWH12ATCXB-K6DNA4D GWH12ATCXB-K6DNA5D	
Product Code		-	CB574001800/CB574001801 CB595001900 CB599002900	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
Сарріу	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	3200	
Heating	Capacity	W	3400	
Cooling	Power Input	W	933	
Heating	Power Input	W	872	
Cooling	Power Current	Α	4.14	
Heating	Power Current	Α	3.87	
Rated In	nput	W	1500	
	cooling Current	Α	6.5	
	leating Current	Α	7.5	
Air Flow		m³/h	650/550/470/420/380/350/310	
	difying Volume	L/h	1.4	
EER	, 0	W/W	3.43	
COP		W/W	3.90	
SEER		-	6.5	
SCOP (Average/Warmer/Colder)		_	4.1/5.1/-	
Application Area		m ²	15-22	
77	Model of indoor unit	-	GWH12ATCXB-K6DNA1D/I GWH12ATCXB-K6DNA4D/I GWH12ATCXB-K6DNA5D/I	
	Indoor Unit Product Code	-	CB574N01800/CB574N01801 CB595N01900 CB599N02900	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф94×630	
	Cooling Speed	r/min	1350/1100/1000/950/900/800/750	
	Heating Speed	r/min	1350/1100/1000/950/900/850/800	
	Fan Motor Power Output	W	20	
	Fan Motor RLA	Α	0.3	
	Fan Motor Capacitor	μF	1.5	
	Evaporator Form	-	Aluminum Fin-copper Tube	
Indoor	Evaporator Pipe Diameter	mm	Ф5	
Unit	Evaporator Row-fin Gap	mm	2-1.3	
	Evaporator Coil Length (LXDXW)	mm	634×22.8×266.7	
	Swing Motor Model	-	MP24HF/MP24HF	
	Swing Motor Power Output	W	1.5/1.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 42/38/35/33/29/26/23 Heating: 42/37/35/33/30/26/25	
	Sound Power Level	dB (A)	Cooling: 59/50/47/45/41/38/35 Heating: 59/49/47/45/42/38/37	
	Dimension (WXHXD)	mm	835X275X200	
	Dimension of Carton Box (LXWXH)	mm	890X329X260	
	Dimension of Package (LXWXH)	mm	895X345X271	
	Net Weight	kg	9	
	Gross Weight	kg	11	

	Outdoor Unit Model	-	GWH12ATCXB-K6DNA1D/O
	Outdoor Unit Product Code	-	CB574W01800
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-N088zC170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	
	Compressor RLA	А	3.6
	Compressor Power Input	W	758
	Compressor Overload Protector	-	
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	1-1.2
	Condenser Coil Length (LXDXW)	mm	700×19.05×528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	 1950
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MDa	
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	52
	Sound Power Level	dB (A)	63
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	25
	Gross Weight	kg	27.5
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.59
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
_	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
, ipe	Max Distance Height	m	10
N	Max Distance Length	m	20
	Note: The connection pipe applies metric diameter	er.	

Model		-	1.GWH18ATDXB-K6DNA1A 2.GWH18ATDXB-K6DNA3A 3.GWH18ATDXB-K6DNA4A 4.GWH18ATDXB-K6DNA5A	GWH18ATDXB-K6DNA1A GWH18ATDXB-K6DNA2A GWH18ATDXB-K6DNA3A GWH18ATDXB-K6DNA4A	
Product	Code	-	1.CB574002800/CB574002801/ CB574002804 2.CB590003600 3.CB595002100 4.CB599001500/CB599001501	CB574002803 CB585004401 CB590003601/CB590003603 CB595002103	
_	Rated Voltage	V~	220-	240	
Power Supply	Rated Frequency	Hz	5	0	
Ouppiy	Phases	-	1		
Power S	Supply Mode	-	Outo	door	
Cooling	Capacity	W	4600		
Heating	Capacity	W	520	00	
	Power Input	W	13:	53	
	Power Input	W	13:	34	
	Power Current	Α	6.		
	Power Current	Α	6.		
Rated In		W	19		
	cooling Current	A	8.		
	leating Current	A	8.		
Air Flow		m³/h	1000/960/870/8		
	difying Volume	L/h	1.000/980/870/8		
EER	ullying volume	W/W	3,4		
			-		
COP		W/W	3.9		
SEER		-	7.		
	Average/Warmer/Colder)	- 2	4.0/5.1/-		
Applicati	ion Area	m ²	21-		
	Model of indoor unit	-	1.GWH18ATDXB-K6DNA1A/I 2.GWH18ATDXB-K6DNA3A/I 3.GWH18ATDXB-K6DNA4A/I 4.GWH18ATDXB-K6DNA5A/I	GWH18ATDXB-K6DNA1A/I GWH18ATDXB-K6DNA2A/I GWH18ATDXB-K6DNA3A/I GWH18ATDXB-K6DNA4A/I	
	Indoor Unit Product Code	-	1.CB574N02800/CB574N02801/ CB574N02804 2.CB590N03600 3.CB595N02100 4.CB599N01500/CB599N01501 CB574N02803 CB585N04401 CB590N03601/CB590 CB595N02103		
	Fan Type	-	Cross	-flow	
	Fan Diameter Length(DXL)	mm	Ф108	x691	
	Cooling Speed	r/min	1200/1100/1030/96	0/800/700/650/500	
	Heating Speed	r/min	1200/1150/1040/		
	Fan Motor Power Output	W	4		
	Fan Motor RLA	Α	0.2		
	Fan Motor Capacitor	μF	/	,	
Indoor	Evaporator Form	- h	Aluminum Fin	-copper Tube	
Unit	Evaporator Pipe Diameter	mm	φ		
	Evaporator Row-fin Gap	mm	2-1		
	Evaporator Coil Length (LXDXW)	mm	700×22		
	Swing Motor Model	-	MP35CJ/MP24HF	MP35CJ	
	Swing Motor Power Output	W	2.5/1.5	2.5	
	Fuse Current	Α	3.15		
	Sound Pressure Level	dB (A)	Cooling: 47/45/43/41/35/30/28 Heating: 46/44/41/38/37/36/33		
	Sound Power Level	dB (A)	Cooling: 60/58/56/54/48/44/41 Heating: 60/58/55/52/51/50/47		
	Dimension (WXHXD)	mm	943X333X246		
	Dimension of Carton Box (LXWXH)	mm	996X397X312		
	Dimension of Package (LXWXH)	mm	1001X405X322		
1	Net Weight	kg	13		
	Gross Weight	kg	15.5		

	Outdoor Unit Model	-	GWH18ATDXB-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02800
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-AN108ACBD
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	19
	Compressor RLA	Α	4.4
	Compressor Power Input	W	952
	Compressor Overload Protector	-	
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	_	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528
	Fan Motor Speed	rpm	1000
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	2100
	Fan Type	-	Axial-flow
	Fan Diameter		Ф420
	Defrosting Method	mm -	Automatic Defrosting
	Climate Type	-	T1
	Isolation	_	11
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for	-	
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	55
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	732X555X330
	Dimension of Carton Box (LXWXH)	mm	791X373X590
	Dimension of Package(LXWXH)	mm	794X376X615
	Net Weight	kg	27.5
	Gross Weight	kg	30
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.77
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
0	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	3/8
· ·	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH18ATDXD-K6DNA1A GWH18ATDXD-K6DNA4A	GWH18ATDXD-K6DNA1A GWH18ATDXD-K6DNA2A GWH18ATDXD-K6DNA3A GWH18ATDXD-K6DNA4A	
Product	Code	-	CB574002700 CB595003100	CB574002701/CB574002702 CB585004301/CB585004302 CB590002801/CB590002802 CB595003102	
_	Rated Voltage	V~	220-2	240	
Power Supply	Rated Frequency	Hz	50)	
Oupply	Phases	-	1		
Power S	supply Mode	-	Outdoor		
Cooling	Capacity	W	530	00	
Heating	Capacity	W	560	00	
Cooling	Power Input	W	150	01	
Heating	Power Input	W	139	93	
Cooling	Power Current	Α	7.2	2	
Heating	Power Current	Α	6.3	3	
Rated In	put	W	235	60	
Rated C	ooling Current	Α	10		
	eating Current	А	10.	5	
	Volume	m³/h	1000/960/870/81	0/720/640/600	
Dehumi	difying Volume	L/h	1.8	3	
EER		W/W	3.5	3	
COP		W/W	4.0	2	
SEER		-	7.3	3	
SCOP (Average/Warmer/Colder)	-	4.2/5.7/3.4		
	ion Area	m ²	23-34		
	Model of indoor unit	-	GWH18ATDXD-K6DNA1A/I GWH18ATDXD-K6DNA4A/I	GWH18ATDXD-K6DNA1A/I GWH18ATDXD-K6DNA2A/I GWH18ATDXD-K6DNA3A/I GWH18ATDXD-K6DNA4A/I	
	Indoor Unit Product Code	-	CB574N02700 CB574N0 CB595N03100 CB595N03100 CB595N03100 CB595N03100		
	Fan Type	-	Cross-	-flow	
	Fan Diameter Length(DXL)	mm	Ф108х	k691	
	Cooling Speed	r/min	1200/1100/1030/960	0/800/700/650/500	
	Heating Speed	r/min	1200/1150/1040/9	80/930/880/800	
	Fan Motor Power Output	W	45	5	
	Fan Motor RLA	Α	0.2	5	
	Fan Motor Capacitor	μF	1		
Indoor	Evaporator Form	-	Aluminum Fin-	copper Tube	
Unit	Evaporator Pipe Diameter	mm	Ф5	5	
	Evaporator Row-fin Gap	mm	2-1.	.2	
	Evaporator Coil Length (LXDXW)	mm	700×22.	8×381	
	Swing Motor Model	-	MP35CJ/MP24HF		
	Swing Motor Power Output	W	2.5/1.5		
	Fuse Current	А	3.15		
	Sound Pressure Level	dB (A)	Cooling: 47/45/43/41/35/30/28 Heating: 46/44/41/38/37/36/33		
	Sound Power Level	dB (A)	Cooling: 60/58/56/54/48/44/41 Heating: 60/58/55/52/51/50/47		
	Dimension (WXHXD)	mm	943X333X246		
	Dimension of Carton Box (LXWXH)	mm	996X397X312		
-	Dimension of Package (LXWXH)	mm	1001X405X322		
	Net Weight	kg	13		
	Gross Weight	kg	15.5		

	Outdoor Unit Model	-	GWH18ATDXD-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02700 CB574W02701
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A120zH170A
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	А	18
	Compressor RLA	А	5
	Compressor Power Input	W	1096
	Compressor Overload Protector	-	HPC115/95U1/KSD115°C
	Throttling Method	-	Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-25~30 -15~30
	Condenser Form	_	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	787×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor	Fan Motor RLA	A	0.4
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	2200
		111 /11	Axial-flow
	Fan Type	-	
	Fan Diameter	mm	Φ420
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	T1
	Isolation	-	l IDV4
	Moisture Protection Permissible Excessive Operating Pressure for	-	IPX4
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	56
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	802X555X350
	Dimension of Carton Box (LXWXH)	mm	869X395X594
	Dimension of Package(LXWXH)	mm	872X398X620
	Net Weight	kg	31.5
	Gross Weight	kg	34
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.85
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
i ipe	Max Distance Height	m	10
N	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

Model		-	GWH18ATDXD-K6DNA5A	
Product Code		-	CB599006901	
	Rated Voltage	V~	220-240	
Power Supply	Rated Frequency	Hz	50	
	Phases	-	1	
Power S	Supply Mode	-	Outdoor	
Cooling	Capacity	W	5300	
Heating	Capacity	W	5600	
Cooling	Power Input	W	1501	
Heating	Power Input	W	1393	
Cooling	Power Current	А	7.2	
Heating	Power Current	А	6.3	
Rated In	put	W	2350	
Rated C	ooling Current	А	10	
Rated H	eating Current	А	10.5	
Air Flow	Volume	m³/h	1000/960/870/810/720/640/600	
Dehumic	difying Volume	L/h	1.8	
EER		W/W	3.53	
COP		W/W	4.02	
SEER		-	7.3	
SCOP (/	Average/Warmer/Colder)	-	4.2/5.7/3.4	
Application Area		m ²	23-34	
	Model of indoor unit	-	GWH18ATDXD-K6DNA5A/I	
	Indoor Unit Product Code	-	CB599N06900	
	Fan Type	-	Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф108х691	
	Cooling Speed	r/min	1200/1100/1030/960/800/700/650/500	
	Heating Speed	r/min	1200/1150/1040/980/930/880/800	
	Fan Motor Power Output	W	45	
	Fan Motor RLA	А	0.25	
	Fan Motor Capacitor	μF	1	
	Evaporator Form	-	Aluminum Fin-copper Tube	
	Evaporator Pipe Diameter	mm	Ф5	
Indoor	Evaporator Row-fin Gap	mm	2-1.2	
Unit	Evaporator Coil Length (LXDXW)	mm	700×22.8×381	
	Swing Motor Model	-	MP35CJ	
	Swing Motor Power Output	W	2.5	
	Fuse Current	Α	3.15	
	Sound Pressure Level	dB (A)	Cooling: 47/45/43/41/35/30/28 Heating: 46/44/41/38/37/36/33	
	Sound Power Level	dB (A)	Cooling: 60/58/56/54/48/44/41 Heating: 60/58/55/52/51/50/47	
	Dimension (WXHXD)	mm	943X333X246	
	Dimension of Carton Box (LXWXH)	mm	996X397X312	
	Dimension of Package (LXWXH)	mm	1001X405X322	
	Net Weight	kg	13	
	Gross Weight	kg	15.5	

	Outdoor Unit Model	-	GWH18ATDXD-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02701
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXF-A120zH170A
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Rotary
	Compressor LRA.	Α	18
	Compressor RLA	А	5
	Compressor Power Input	W	1096
	Compressor Overload Protector	-	HPC115/95U1/KSD115°C
	Throttling Method	-	Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-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	787×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	Α	0.4
Offic	Fan Motor Capacitor	μF	1
	Outdoor Unit Air Flow Volume	m ³ /h	2200
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф420
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	I
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	56
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	802X555X350
	Dimension of Carton Box (LXWXH)	mm	869X395X594
	Dimension of Package(LXWXH)	mm	872X398X620
	Net Weight	kg	31.5
	Gross Weight	kg	34
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.85
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
-1	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

34 <u>Technical Information</u>

Model		-	GWH18ATDXD-K6DNA1A
Product	Product Code		CB574002703
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	5300
Heating	Capacity	W	5600
Cooling	Power Input	W	1501
Heating	Power Input	W	1393
Cooling	Power Current	А	7.2
Heating	Power Current	А	6.3
Rated In	put	W	2350
Rated C	ooling Current	А	10.0
Rated H	eating Current	Α	10.5
Air Flow	Volume	m³/h	1000/960/870/810/720/640/600
Dehumic	difying Volume	L/h	1.80
EER		W/W	3.53
COP		W/W	4.02
SEER	SEER		7.3
SCOP (/	SCOP (Average/Warmer/Colder)		4.2/5.6/3.4
Applicati	Application Area		23-34
	Model of indoor unit	-	GWH18ATDXD-K6DNA1A/I
	Indoor Unit Product Code	-	CB574N02703
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф108х691
	Cooling Speed	r/min	1200/1100/1030/960/800/700/650/500
	Heating Speed	r/min	1200/1150/1040/980/930/880/800
	Fan Motor Power Output	W	45
	Fan Motor RLA	А	0.25
	Fan Motor Capacitor	μF	/
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф5
Indoor	Evaporator Row-fin Gap	mm	2-1.2
Unit	Evaporator Coil Length (LXDXW)	mm	700×22.8×381
	Swing Motor Model	-	MP35CJ/MP24HF
	Swing Motor Power Output	W	2.5/1.5
	Fuse Current	А	3.15
	Sound Pressure Level	dB (A)	Cooling: 47/45/43/41/35/30/28 Heating: 46/44/41/38/37/36/33
	Sound Power Level	dB (A)	Cooling: 60/58/56/54/48/44/41 Heating: 60/58/55/52/51/50/47
	Dimension (WXHXD)	mm	943X333X246
	Dimension of Carton Box (LXWXH)	mm	1020X411X336
	Dimension of Package (LXWXH)	mm	1023X414X351
	Net Weight	kg	13
	Gross Weight	kg	17.5

	Outdoor Unit Model	-	GWH18ATDXD-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02703
	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	А	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	787×38.1×528
	Fan Motor Speed	rpm	880
	Fan Motor Power Output	W	30
Outdoor Unit	Fan Motor RLA	А	0.4
Offic	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	2200
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Φ420
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	56
	Sound Power Level	dB (A)	65
	Dimension(WXHXD)	mm	802X555X350
	Dimension of Carton Box (LXWXH)	mm	869X395X594
	Dimension of Package(LXWXH)	mm	872X398X625
	Net Weight	kg	31.5
	Gross Weight	kg	36.5
	Refrigerant	-	R32
	Refrigerant Charge	kg	0.85
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
_	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
. 100	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

Model		-	1. GWH24ATDXE-K6DNA1A 2. GWH24ATDXE-K6DNA3A 3. GWH24ATDXE-K6DNA4A 4. GWH24ATDXE-K6DNA5A 4. GWH24ATDXE-K6DNA5A 4. GWH24ATDXE-K6DNA5A				
Product Code Rated Voltage		-	1. CB574002900/CB574002902/ CB574002906 2. CB590001101 3. CB595000701 4. CB599001200/CB599001201	1. CB574002901/CB574002904 2. CB585000100/CB585000103 3. CB590001100/CB590001103/ CB590001106 4. CB595000700/CB595000705			
_	Rated Voltage	V~	220-:	240			
Power Supply	Rated Frequency	Hz	50)			
Сарріу	Phases	-	1				
Power S	Supply Mode	-	Outd	loor			
Cooling	Capacity	W	620	00			
Heating	Capacity	W	650	00			
Cooling	Power Input	W	178	36			
Heating	Power Input	W	164	45			
Cooling	Power Current	Α	7.0	6			
Heating	Power Current	Α	7.0	6			
Rated In	put	W	230	00			
Rated C	ooling Current	Α	11.	5			
Rated H	eating Current	Α	11.	5			
Air Flow	Volume	m³/h	1050/900/740/69	90/640/590/540			
Dehumi	difying Volume	L/h	1.8	8			
EER		W/W	3.4	.7			
COP		W/W	3.9	95			
SEER		-	6.8				
SCOP (Average/Warmer/Colder)		-	4.0/5.1/-				
Applicati	ion Area	m ²	23-	34			
	Model of indoor unit	-	1. GWH24ATDXE-K6DNA1A/I 2. GWH24ATDXE-K6DNA3A/I 3. GWH24ATDXE-K6DNA4A/I 4. GWH24ATDXE-K6DNA5A/I	1. GWH24ATDXE-K6DNA1A/I 2. GWH24ATDXE-K6DNA2A/I 3. GWH24ATDXE-K6DNA3A/I 4. GWH24ATDXE-K6DNA4A/I			
	Indoor Unit Product Code	-	1. CB574N02900/CB574N02902/ CB574N02906 2. CB590N01101 3. CB595N00701 4. CB599N01200/CB599N01201	1. CB574N02901/CB574N02904 2. CB585N00100/CB585N00103 3. CB590N01100/CB590N01103/ CB590N01106 4. CB595N00700/CB595N00705			
	Fan Type	-	Cross	-flow			
	Fan Diameter Length(DXL)	mm	Ф108	×691			
	Cooling Speed	r/min	1300/1200/1120/1	050/980/860/750			
	Heating Speed	r/min	1250/1200/1120/1	050/950/850/750			
	Fan Motor Power Output	W	45	5			
	Fan Motor RLA	Α	0.2	24			
	Fan Motor Capacitor	μF	/				
Indoor	Evaporator Form	-	Aluminum Fin-	copper Tube			
Unit	Evaporator Pipe Diameter	mm	Ф	7			
	Evaporator Row-fin Gap	mm	2-1	.3			
	Evaporator Coil Length (LXDXW)	mm	700×25	4×381			
	Swing Motor Model	-	MP24HF/MP35CJ	MP35CJ			
	Swing Motor Power Output	W	1.5/2.5	2.5			
	Fuse Current	А	3.1	5			
	Sound Pressure Level	dB (A)	Cooling: 50/46/4 Heating: 47/45/4	14/42/38/35/31			
	Sound Power Level	dB (A)	Cooling: 65/56/5 Heating: 65/55/5	54/52/48/45/41			
	Dimension (WXHXD)	mm	943X33	3X246			
	Dimension of Carton Box (LXWXH)	mm	996X39	7X312			
	Dimension of Package (LXWXH)	mm	1001X405X322				
	Net Weight	kg	13.5				
	Gross Weight	kg	16				

	Outdoor Unit Model	-	GWH24ATDXE-K6DNA1A/O
	Outdoor Unit Product Code	-	CB574W02900
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	FTz-SM151AXBD
	Compressor Oil	-	FW68DA
	Compressor Type	-	Rotary
	Compressor LRA.	Α	
	Compressor RLA	Α	6.06
	Compressor Power Input	W	1330
	Compressor Overload Protector	-	
	Throttling Method	-	Capillary
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Ф7.94
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	848x38.1x528
	Fan Motor Speed	rpm	900
	Fan Motor Power Output	W	40
Outdoor	Fan Motor RLA	Α	0.7
Unit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	2800
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Φ445
	Defrosting Method	-	Automatic Defrosting
	Climate Type	_	T1
	Isolation	_	
	Moisture Protection	_	IPX4
	Permissible Excessive Operating Pressure for	MPa	
	the Discharge Side	IVIPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	58
	Sound Power Level	dB (A)	69
	Dimension(WXHXD)	mm	873X555X376
	Dimension of Carton Box (LXWXH)	mm	948X428X591
	Dimension of Package(LXWXH)	mm	951X431X620
	Net Weight	kg	36.5
	Gross Weight	kg	39.5
	Refrigerant	-	R32
	Refrigerant Charge	kg	1.21
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	1/2
ı ıhe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	-r	

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

38 <u>Technical Information</u>

Model		-	GWH24ATEXF-K6DNA1A GWH24ATEXF-K6DNA2A GWH24ATEXF-K6DNA3A GWH24ATEXF-K6DNA4A	GWH24ATEXF-K6DNA1A GWH24ATEXF-K6DNA4A		
Product Code		-	CB574001900 CB585003900/CB585003901 CB590002400/CB590002401 CB595003204	CB574001901 CB595003201		
Power Supply Rated Voltage Rated Frequency Phases		V~	220-240			
		Hz	50			
		-	1			
Power S	Supply Mode	-	Outd	loor		
	Capacity	W	710	00		
	Capacity	W	780	00		
	Power Input	W	203	30		
	Power Input	W	200	00		
	Power Current	Α	9			
	Power Current	Α	9.:	3		
Rated In		W	300			
	ooling Current	A				
	eating Current	A	13.			
	Volume	m³/h	1250/1100/1000/950			
)ehumi	difying Volume	L/h	2,4			
ER	anying relaine	W/W	3.9			
OP		W/W	3.9			
SEER		-	7			
SCOP (Average/Warmer/Colder)		_	4.2/5.4/3.4			
		m ²	27-42			
Applicatio	Model of indoor unit	-	GWH24ATEXF-K6DNA1A/I GWH24ATEXF-K6DNA2A/I GWH24ATEXF-K6DNA3A/I GWH24ATEXF-K6DNA4A/I	GWH24ATEXF-K6DNA1A/I GWH24ATEXF-K6DNA4A/I		
	Indoor Unit Product Code	-	CB574N01900 CB585N03900/CB585N03901 CB590N02400/CB590N02401 CB595N03201	CB574N01900 CB595N03201		
	Fan Type	-	Cross	-flow		
	Fan Diameter Length(DXL)	mm	Ф111.5×830			
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650			
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850			
	Fan Motor Power Output	W	60)		
	Fan Motor RLA	Α	0.2	24		
	Fan Motor Capacitor	μF	/			
ndoor	Evaporator Form	-	Aluminum Fin-	-copper Tube		
Unit	Evaporator Pipe Diameter	mm	Ф	7		
	Evaporator Row-fin Gap	mm	2-1	.4		
	Evaporator Coil Length (LXDXW)	mm	840×25	.4×381		
	Swing Motor Model	-	MP24HF/MP35CP			
	Swing Motor Power Output	W	1.5/2	2.5		
	Fuse Current	Α	3.15			
	Sound Pressure Level	dB (A)	Cooling: 48/44/41 Heating: 50/47/	/40/38/37/35/27 43/41/40/38/36		
	Sound Power Level	dB (A)	Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50			
	Dimension (WXHXD)	mm	1078X33	33X246		
	Dimension of Carton Box (LXWXH)	mm	1128X40	06X323		
	Dimension of Package (LXWXH)	mm	1133X41	14X333		
	Net Weight	kg	15			
	Gross Weight	kg	18	3		

	Outdoor Unit Model	-	GWH24AFE-K6DNA2I/O
	Outdoor Unit Product Code	-	CB363W04100 CB363W04101
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-M180zX170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Twin Rotary
	Compressor LRA.	Α	35
	Compressor RLA	Α	3.5
	Compressor Power Input	W	1610
	Compressor Overload Protector	-	KSD115°C HPC 115/95U1
	Throttling Method	-	Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30 -25~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839×38.1×616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
Outdoor Unit	Fan Motor RLA	Α	0.65
Offic	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	3600
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф520
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	59
	Sound Power Level	dB (A)	70
	Dimension(WXHXD)	mm	958X660X402
	Dimension of Carton Box (LXWXH)	mm	1029X453X715
	Dimension of Package(LXWXH)	mm	1032X456X737
	Net Weight	kg	41.5
	Gross Weight	kg	46
	Refrigerant	-	R32
	Refrigerant Charge	kg	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
_	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	5/8
i ipe	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

40 <u>Technical Information</u>

Model		-	GWH24ATEXF-K6DNA5A
Product	Product Code		CB599007000
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
Cappiy	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	7100
Heating	Capacity	W	7800
Cooling	Power Input	W	2030
Heating	Power Input	W	2000
Cooling	Power Current	Α	9
Heating	Power Current	Α	9.3
Rated In	nput	W	3000
Rated C	cooling Current	А	13
Rated H	leating Current	А	13.5
Air Flow	Volume	m³/h	1250/1100/1000/950/900/850/800/600
Dehumi	difying Volume	L/h	2.4
EER		W/W	3.5
СОР		W/W	3.9
SEER		-	7
SCOP (SCOP (Average/Warmer/Colder)		4.2/5.4/3.4
Applicat	Application Area		27-42
	Model of indoor unit	-	GWH24ATEXF-K6DNA5A/I
	Indoor Unit Product Code	-	CB599N07000
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф111.5×830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60
	Fan Motor RLA	А	0.24
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф7
Indoor	Evaporator Row-fin Gap	mm	2-1.4
Unit	Evaporator Coil Length (LXDXW)	mm	840×25.4×381
	Swing Motor Model	-	MP35CP
	Swing Motor Power Output	W	2.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 48/44/41/40/38/37/35/27
	Sound Power Level	dB (A)	Heating: 50/47/43/41/40/38/36 Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50
	Dimension (WXHXD)	mm	1078X333X246
	Dimension of Carton Box (LXWXH)	mm	1128X406X323
	Dimension of Package (LXWXH)	mm	1133X414X333
	Net Weight	kg	15
	Gross Weight		18
	GIOSS MEIGHT	kg	10

	Outdoor Unit Model	-	GWH24AFE-K6DNA2I/O
	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
	Compressor RLA	Α	3.5
	Compressor Power Input	W	1610
	Compressor Overload Protector	-	KSD115°C HPC 115/95U1
	Throttling Method	-	Electron expansion valve
	Set Temperature Range	°C	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~50
	Heating Operation Ambient Temperature Range	°C	-15~30
	Condenser Form	-	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839×38.1×616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
Outdoor Unit	Fan Motor RLA	Α	0.65
Onit	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m³/h	3600
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф520
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	59
	Sound Power Level	dB (A)	70
	Dimension(WXHXD)	mm	958X660X402
	Dimension of Carton Box (LXWXH)	mm	1029X453X715
	Dimension of Package(LXWXH)	mm	1032X456X737
	Net Weight	kg	41.5
	Gross Weight	kg	46
	Refrigerant	-	R32
	Refrigerant Charge	kg	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	5/8
. 120	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

42 <u>Technical Information</u>

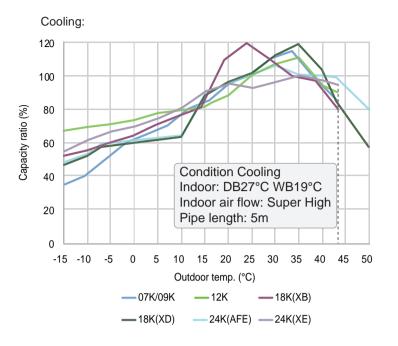
Model		-	GWH24ATEXF-K6DNA1A
Product Code		-	CB574001905
	Rated Voltage	V~	220-240
Power Supply	Rated Frequency	Hz	50
0 0 0 0 0 0	Phases	-	1
Power S	Supply Mode	-	Outdoor
Cooling	Capacity	W	7100
Heating	Capacity	W	7800
Cooling	Power Input	W	2030
Heating	Power Input	W	2000
Cooling	Power Current	Α	9
Heating	Power Current	Α	9.3
Rated In	nput	W	3000
Rated C	cooling Current	Α	13
Rated H	leating Current	Α	13.5
Air Flow	Volume	m³/h	1250/1100/1000/950/900/850/800/600
Dehumi	difying Volume	L/h	2.40
EER		W/W	3.50
СОР		W/W	3.9
SEER	SEER		7
SCOP (SCOP (Average/Warmer/Colder)		4.2/5.4/3.4
Applicat	Application Area		27-42
	Model of indoor unit	-	GWH24ATEXF-K6DNA1A/I
	Indoor Unit Product Code	-	CB574N01905
	Fan Type	-	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф111.5×830
	Cooling Speed	r/min	1250/1100/1000/950/900/850/800/650
	Heating Speed	r/min	1400/1250/1100/1050/1000/900/850
	Fan Motor Power Output	W	60
	Fan Motor RLA	А	0.65
	Fan Motor Capacitor	μF	1
	Evaporator Form	-	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Ф7
Indoor	Evaporator Row-fin Gap	mm	2-1.4
Unit	Evaporator Coil Length (LXDXW)	mm	840×25.4×381
	Swing Motor Model	-	MP24HF/MP35CP
	Swing Motor Power Output	W	1.5/2.5
	Fuse Current	Α	3.15
	Sound Pressure Level	dB (A)	Cooling: 48/44/41/40/38/37/35/27 Heating: 50/47/43/41/40/38/36
	Sound Power Level	dB (A)	Cooling: 64/59/56/55/53/51/48/42 Heating: 64/62/58/56/55/51/50
	Dimension (WXHXD)	mm	1078X333X246
	Dimension of Carton Box (LXWXH)	mm	1157X411X336
	Dimension of Package (LXWXH)	mm	1160X414X351
	Net Weight	kg	15
	Gross Weight	kg	20
		9	

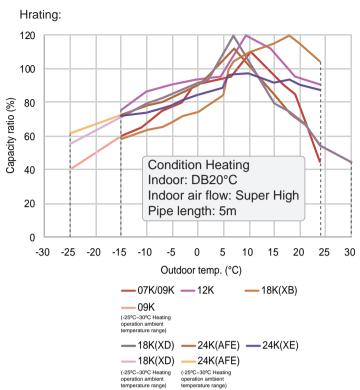
	Outdoor Unit Model	-	GWH24AFE-K6DNA2I/O
	Outdoor Unit Product Code	-	CB363W04105
	Compressor Manufacturer	-	ZHUHAI LANDA COMPRESSOR CO., LTD.
	Compressor Model	-	QXFS-M180zX170
	Compressor Oil	-	FW68DA or equivalent
	Compressor Type	-	Twin Rotary
	Compressor LRA.	Α	35.00
	Compressor RLA	Α	3.50
	Compressor 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	Ф7
	Condenser Rows-fin Gap	mm	2-1.4
	Condenser Coil Length (LXDXW)	mm	839×38.1×616
	Fan Motor Speed	rpm	800
	Fan Motor Power Output	W	60
Outdoor Unit	Fan Motor RLA	Α	0.65
Offic	Fan Motor Capacitor	μF	/
	Outdoor Unit Air Flow Volume	m ³ /h	3600
	Fan Type	-	Axial-flow
	Fan Diameter	mm	Ф520
	Defrosting Method	-	Automatic Defrosting
	Climate Type	-	
	Isolation	-	I
	Moisture Protection	-	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level	dB (A)	59
	Sound Power Level	dB (A)	70
	Dimension(WXHXD)	mm	958X660X402
	Dimension of Carton Box (LXWXH)	mm	1029X453X700
	Dimension of Package(LXWXH)	mm	1032X456X737
	Net Weight	kg	41.5
	Gross Weight	kg	49.5
	Refrigerant	-	R32
	Refrigerant Charge	kg	1.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	40
	Outer Diameter Liquid Pipe	inch	1/4
Connection Pipe	Outer Diameter Gas Pipe	inch	5/8
	Max Distance Height	m	10
	Max Distance Length	m	25
	Note: The connection pipe applies metric diameter	er.	

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

44 <u>Technical Information</u>

2.2 Capacity Variation Ratio According to Temperature





2.3 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

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

Heating:

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

Instruction:

T1: Inlet and outlet pipe temperature of evaporator

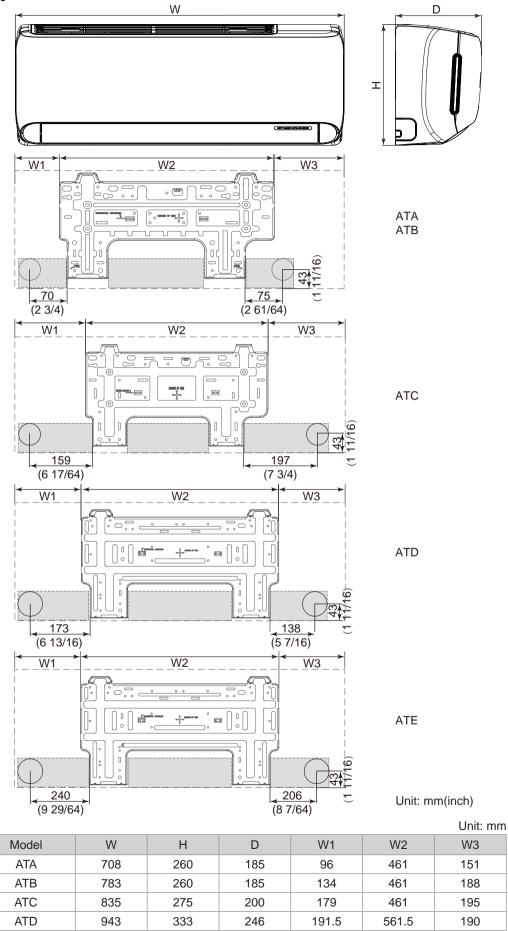
T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve

Connection pipe length: 5 m.

3. Outline Dimension Diagram

3.1 Indoor Unit



46 Technical Information

246

258.5

561.5

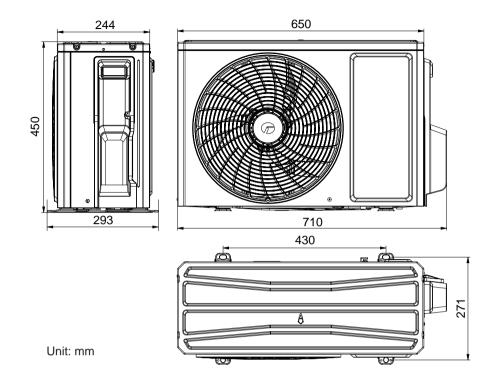
258

333

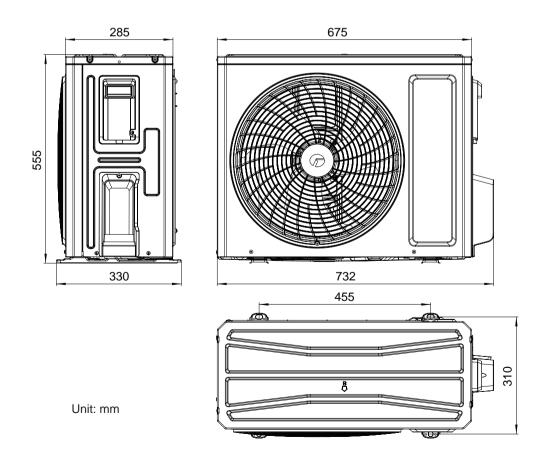
ATE

3.2 Outdoor Unit

07K

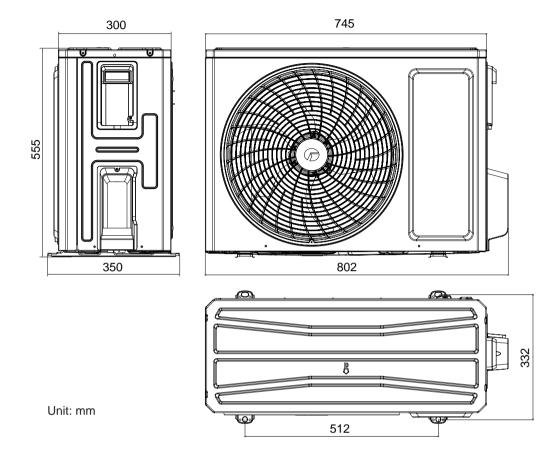


09K / 12K / 18K(XB)

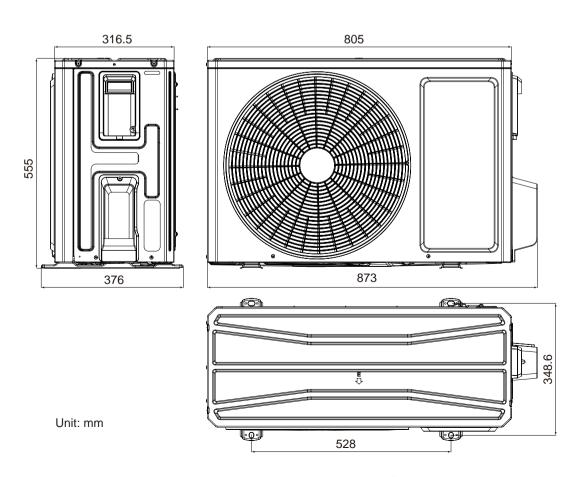


Technical Information

18K(XD)

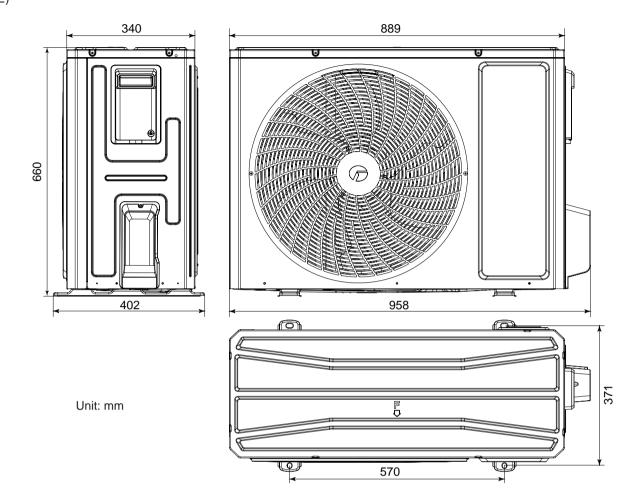


24K(XE)



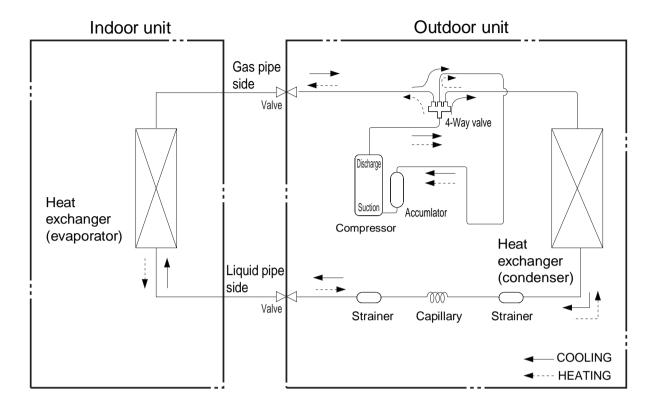
48 <u>Technical Information</u>

24K(AFE)

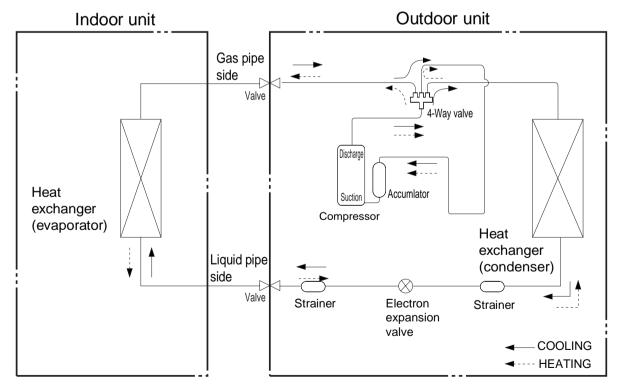


4. Refrigerant System Diagram

07K / 09K / 12K except GWH12ATCXB-K6DNA1A / GWH12ATCXB-K6DNA2A / GWH12ATCXB-K6DNA3A / GWH12ATCXB-K6DNA4A / 18K(XD) / 24K(AFE)



GWH12ATCXB-K6DNA1A / GWH12ATCXB-K6DNA2A / GWH12ATCXB-K6DNA3A / GWH12ATCXB-K6DNA4A / 18K(XD) / 24K(XF)



Connection pipe specification:

Liquid pipe: 1/4"

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

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

5/8" for 24K(XF)

5. Electrical Part

5.1 Wiring Diagram

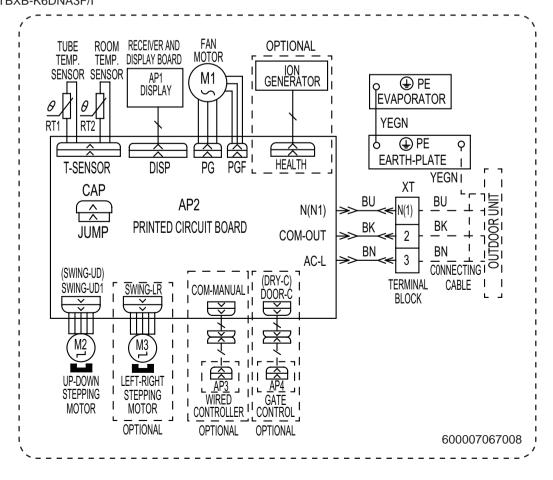
Instruction

Symbol	Symbol Color	Symbol	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		/	/		

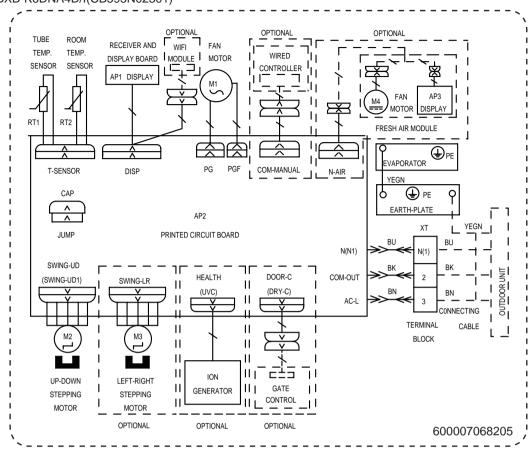
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

• Indoor Unit

GWH07ATAXA-K6DNA1B/I(CB574N02000/CB574N02003/CB574N02004/CB574N02007) GWH07ATAXA-K6DNA2B/I GWH07ATAXA-K6DNA3B/I GWH07ATAXA-K6DNA4B/I GWH09ATAXB-K6DNA1B/I GWH09ATAXB-K6DNA3B/I GWH09ATAXB-K6DNA4B/I GWH09ATAXB-K6DNA5B/I GWH09ATAXB-K6DNA2C/I GWH09ATAXB-K6DNA3C/I GWH09ATBXB-K6DNA1B/I(CB574N02100) GWH12ATBXB-K6DNA1D/I GWH12ATBXB-K6DNA3D/I GWH12ATBXB-K6DNA4D/I(CB595N02300/CB595N02302) GWH12ATBXB-K6DNA5D/I GWH12ATBXB-K6DNA2F/I GWH12ATBXB-K6DNA3F/I

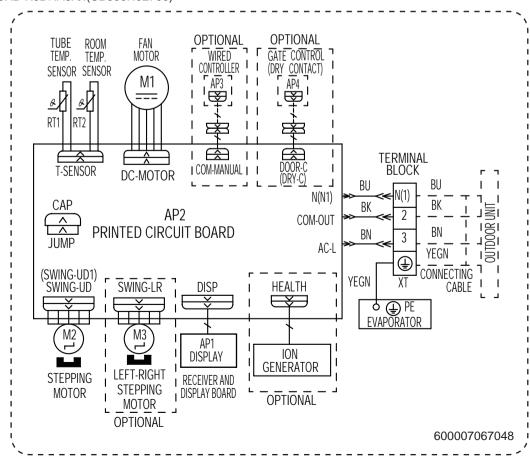


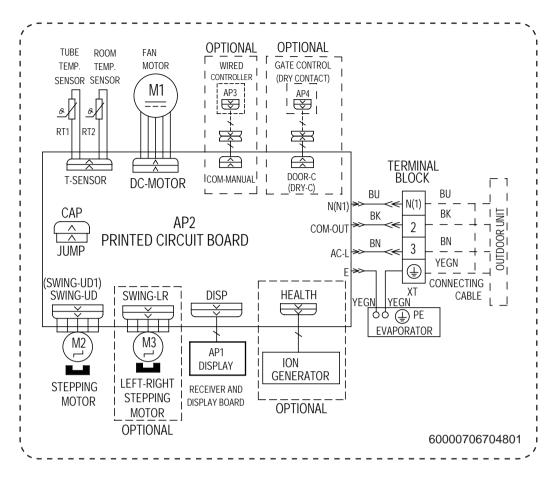
Technical Information



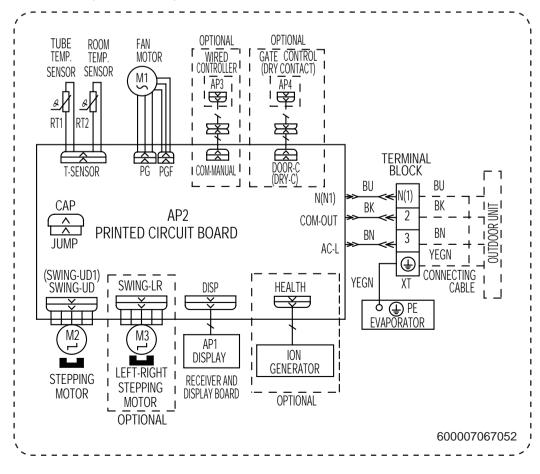
GWH09ATCXB-K6DNA2A/I(CB585N04100) GW GWH09ATCXB-K6DNA3A/I(CB590N02700)

GWH09ATCXB-K6DNA4A/I





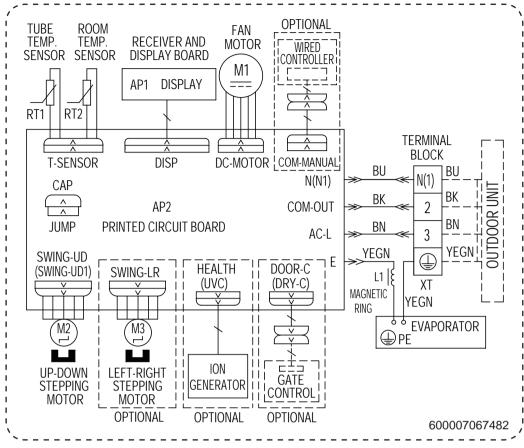




Technical Information

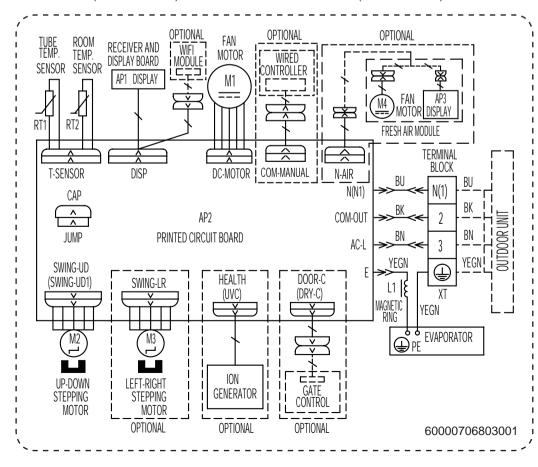
(CB574N02700/CB574N02703) GWH18ATDXD-K6DNA4A/I

GWH18ATDXD-K6DNA5A/I

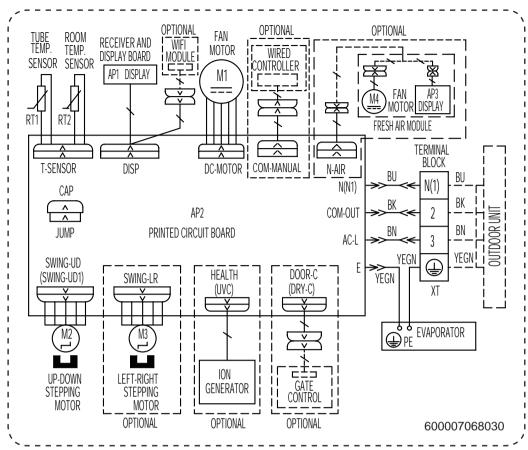


GWH18ATDXB-K6DNA1A/I(CB574N02804)

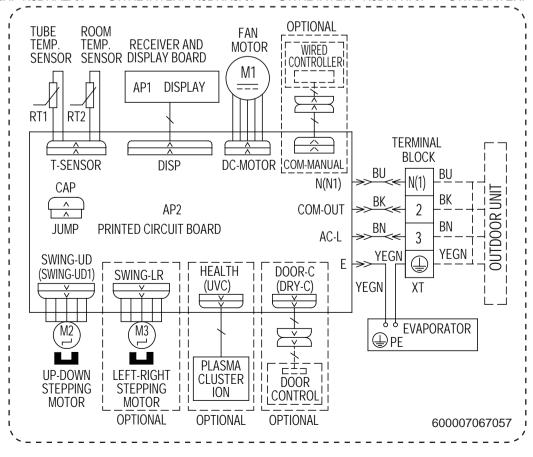
GWH18ATDXD-K6DNA1A/I(CB574N02702)



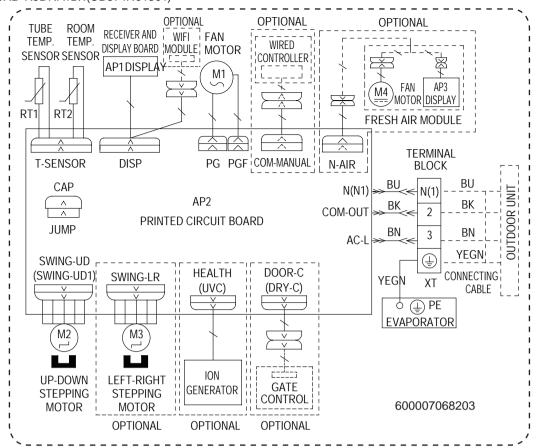
GWH24ATDXE-K6DNA1A/I(CB574N02906)



GWH09ATCXB-K6DNA2A/I(CB585N04101) GWH09ATCXB-K6DNA3A/I(CB590N02702)
GWH12ATCXB-K6DNA1A/I GWH12ATCXB-K6DNA2A/I GWH12ATCXB-K6DNA3A/I GWH12ATCXB-K6DNA4A/I
GWH24ATDXE-K6DNA1A/I(CB574N02900/CB574N02901/CB574N02902/CB574N02904) GWH24ATDXE-K6DNA2A/I
GWH24ATDXE-K6DNA3A/I GWH24ATDXE-K6DNA4A/I GWH24ATDXE-K6DNA5A/I
GWH24ATEXF-K6DNA2A/I GWH24ATEXF-K6DNA3A/I GWH24ATEXF-K6DNA4A/I GWH24ATEXF-K6DNA5A/I

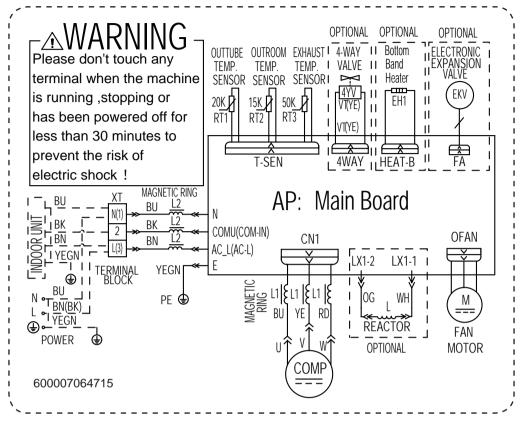


GWH12ATCXB-K6DNA1D/I(CB574N01801)

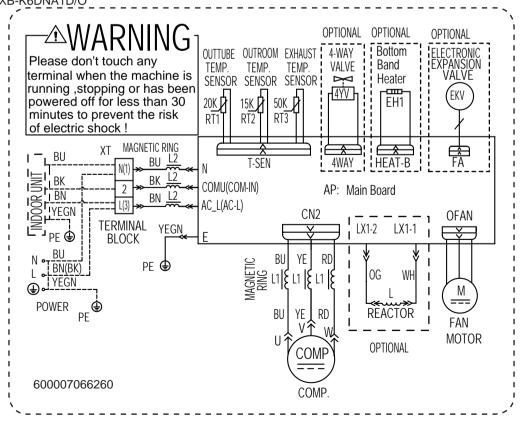


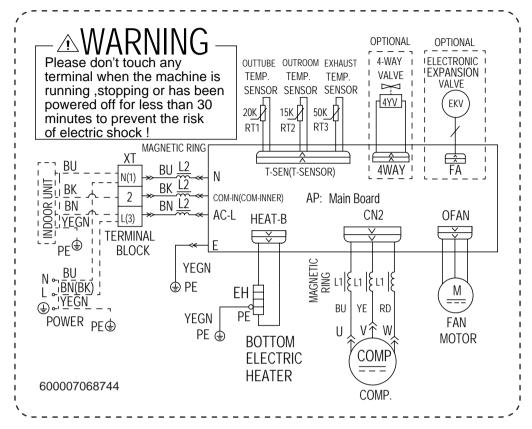
Outdoor Unit

GWH07AGA-K6DNA1A/O

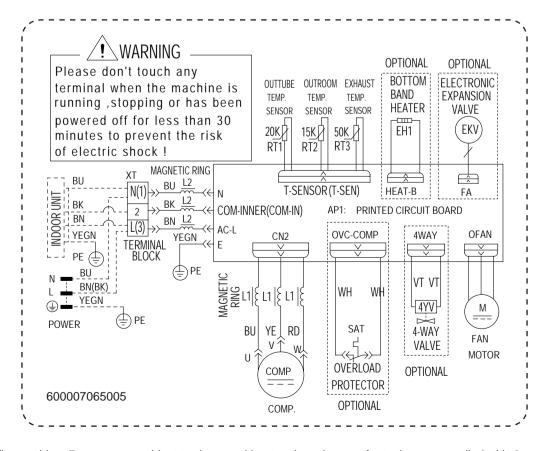


GWH09AGAXB-K6DNA1B/O GWH09AWAXB-K6DNA1C/O GWH09AGBXB-K6DNA1A/O GWH09ATCXB-K6DNA1A/O GWH12ATBXB-K6DNA1D/O GWH12AWBXB-K6DNA3F/O GWH12ATCXB-K6DNA1A/O(CB574W00700/CB574W00701)





GWH18ATDXB-K6DNA1A/O GWH18ATDXD-K6DNA1A/O GWH24ATDXE-K6DNA1A/O GWH24AFE-K6DNA2I/O

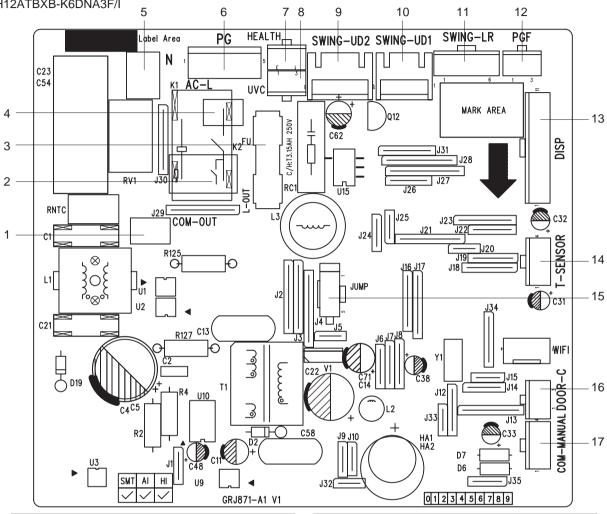


These wiring diagrams are subject to change without notice; please refer to the one supplied with the unit.

5.2 PCB Printed Diagram

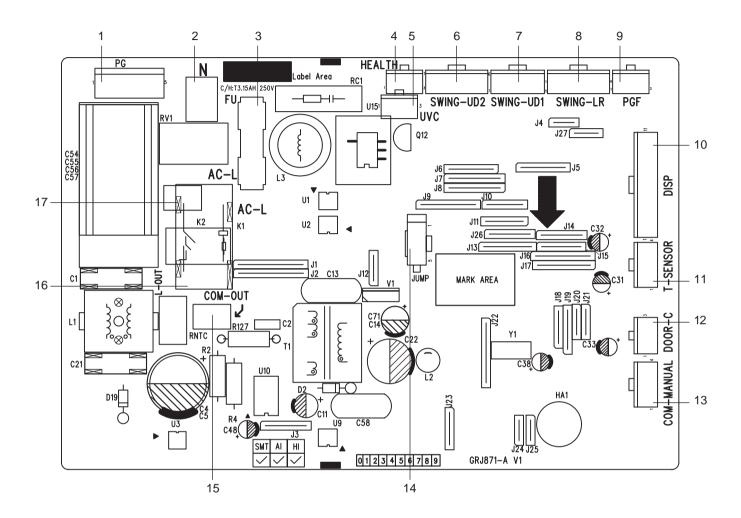
• Indoor Unit

GWH07ATAXA-K6DNA1B/I GWH09ATAXB-K6DNA1B/I GWH09ATBXB-K6DNA1B/I GWH12ATBXB-K6DNA3D/I GWH12ATBXB-K6DNA3F/I GWH07ATAXA-K6DNA2B/I GWH09ATAXB-K6DNA3B/I GWH09ATAXB-K6DNA2C/I GWH12ATBXB-K6DNA4D/I GWH07ATAXA-K6DNA3B/I GWH09ATAXB-K6DNA4B/I GWH09ATAXB-K6DNA3C/I GWH12ATBXB-K6DNA5D/I GWH07ATAXA-K6DNA4B/I GWH09ATAXB-K6DNA5B/I GWH12ATBXB-K6DNA1D/I GWH12ATBXB-K6DNA2F/I



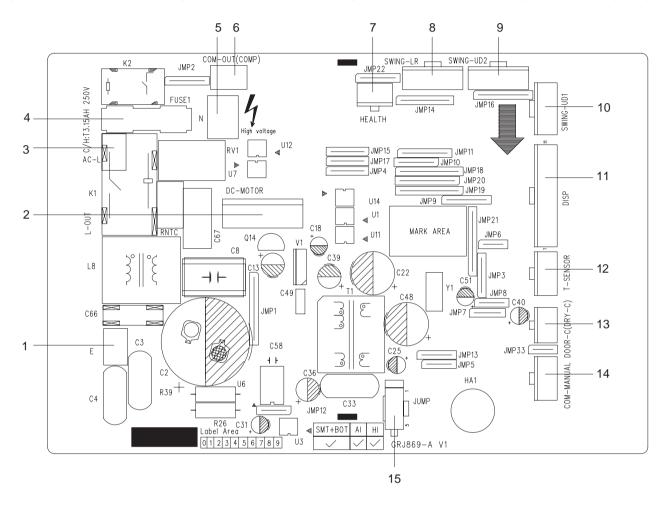
No.	Name	No.	Name
1	Communication Wire Insertion	10	Up & Down Swing Needle Stand 1
2	Live Wire Insertion (Outdoor unit)	11	Left & Right Swing Needle Stand
3	Fuse	12	PG Motor Feedback Needle Stand
4	Live Wire Insertion	13	Display Board Needle Stand
5	Neutral Wire Insertion		Temperature Sensor Tube Needle Stand
6	PG Motor Needle Stand	15	Jumper
7	Plasmacluster Ion Needle Stand	16	
8	Ultraviolet cleaning Needle Stand	17	Wired Controller Needle Stand
9	Up & Down Swing Needle Stand 2		

GWH12ATCXB-K6DNA1D/I GWH12ATCXB-K6DNA4D/I GWH12ATCXB-K6DNA5D/I



No.	Name	No.	Name
1	PG Motor Needle Stand	10	Display Board Needle Stand
2	Neutral Wire Insertion	11	Temperature Sensor Needle Stand
3	Fuse	12	Door Control Needle Stand
4	Health Function Needle Stand	13	Wired Controller Needle Stand
5	Ultraviolet cleaning Needle Stand		Jumper Needle Stand
6	Up & Down Swing Needle Stand 2	15	
7	Up & Down Swing Needle Stand 1	16	Live Wire Insertion (outdoor unit)
8	Left & Right Swing Needle Stand		Live Wire Insertion
9	PG Motor Feedback Needle Stand		

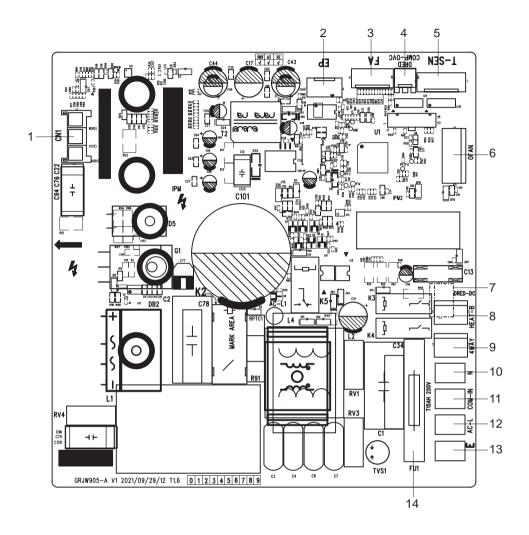
GWH09ATCXB-K6DNA1A/I GWH12ATCXB-K6DNA1A/I GWH18ATDXB-K6DNA1A/I GWH18ATDXB-K6DNA5A/I GWH18ATDXD-K6DNA4A/I GWH24ATDXE-K6DNA3A/I GWH24ATEXF-K6DNA2A/I GWH09ATCXB-K6DNA2A/I GWH12ATCXB-K6DNA2A/I GWH18ATDXB-K6DNA2A/I GWH18ATDXD-K6DNA1A/I GWH18ATDXD-K6DNA5A/I GWH24ATDXE-K6DNA4A/I GWH24ATEXF-K6DNA3A/I GWH09ATCXB-K6DNA3A/I GWH12ATCXB-K6DNA3A/I GWH18ATDXB-K6DNA3A/I GWH18ATDXD-K6DNA2A/I GWH24ATDXE-K6DNA1A/I GWH24ATDXE-K6DNA5A/I GWH24ATEXF-K6DNA4A/I GWH09ATCXB-K6DNA4A/I GWH12ATCXB-K6DNA4A/I GWH18ATDXB-K6DNA4A/I GWH18ATDXD-K6DNA3A/I GWH24ATDXE-K6DNA2A/I GWH24ATEXF-K6DNA1A/I GWH24ATEXF-K6DNA5A/I



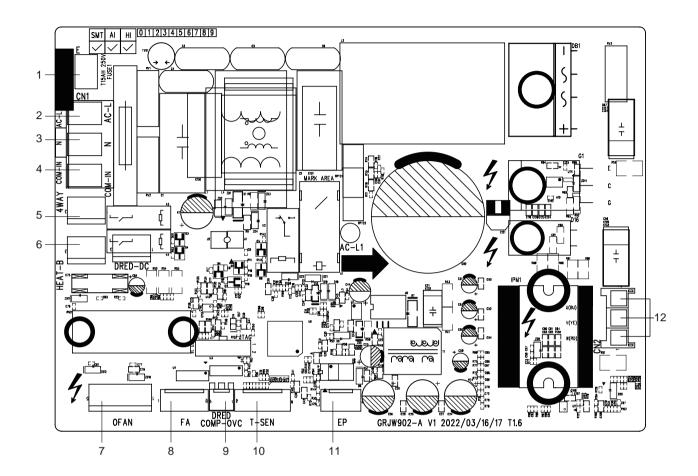
No.	Name	No.	Name
1	Earthing Wire Insertion	9	Up & Down Swing Needle Stand 2
2	Brushless DC Motor Needle Stand		Up & Down Swing Needle Stand 1
3	Live Wire Insertion	11	Display Board Needle Stand
4	Fuse	12	Temperature Sensor Needle Stand
5	Neutral Wire Insertion	13	Door Control Needle Stand
6	Communication Wire Insertion		Wired Controller Needle Stand
7	Health Function Needle Stand	15	
8	Left & Right Swing Needle Stand		

Outdoor Unit

GWH07AGA-K6DNA1A/O

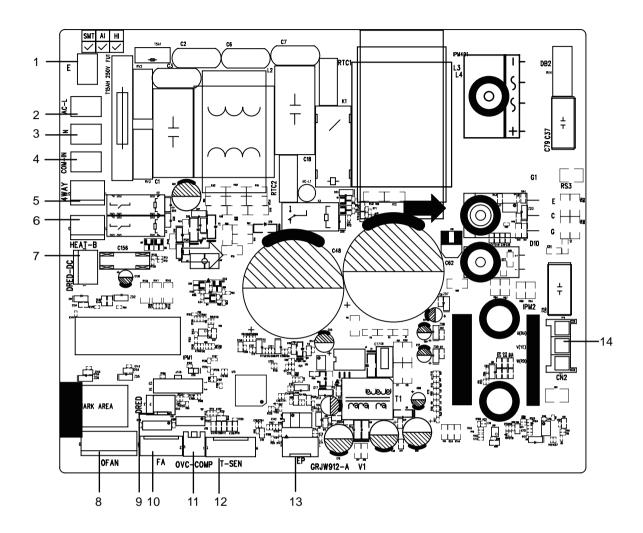


No.	Name	No.	Name
1	Compressor Wire Insertion	8	Chassis Electric Heating Belt Needle Stand
2	EEP Flash Drive Needle Stand	9	Four-way Valve Needle Stand
3	Electronic Expansion Valve Needle Stand	10	Neutral Wire Insertion
4	Compressor Overload Needle Stand	11	Communication Wire Insertion
5	Temperature Sensor Needle Stand	12	Live Wire Insertion
6	Outdoor Fan Needle Stand	13	Earthing Wire Insertion
7	DRED Needle Stand		Fuse



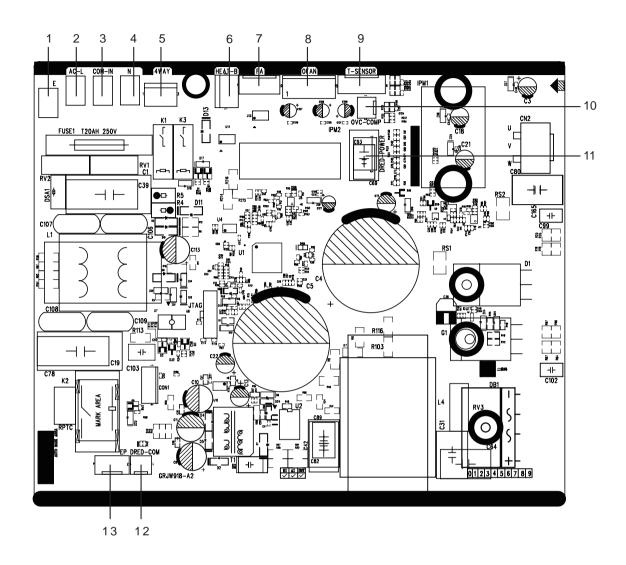
No.	Name	No.	Name
1	Earthing Wire Insertion	7	Outdoor Fan Needle Stand
2	Live Wire Insertion	8	Electronic Expansion Valve Needle Stand
3	Neutral Wire Insertion	9	Compressor Overload Needle Stand
4	Communication Wire Insertion		Temperature Sensor Needle Stand
5	Four-way Valve Needle Stand	11	EEP Flash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

GWH18ATDXD-K6DNA1A/O



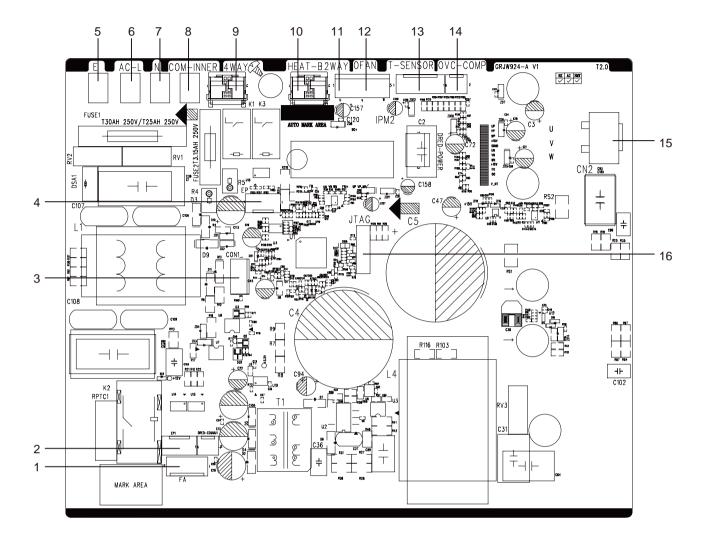
No.	Name	No.	Name
1	Earthing Wire Insertion	8	Outdoor Fan Needle Stand
2	Live Wire Insertion	9	DRED(Reserved)
3	Neutral Wire Insertion	10	Electronic Expansion Valve Needle Stand
4	Communication Wire Insertion	11	Compressor Overload Needle Stand
5	Four-way Valve Needle Stand		Temperature Sensor Needle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

GWH24ATDXE-K6DNA1A/O



No.	Name	No.	Name
1	Earthing Wire Insertion	8	Outdoor Fan Needle Stand
2	Live Wire Insertion	9	Temperature Sensor Needle Stand
3	Communication Wire Insertion	10	Compressor Overload Needle Stand
4	Neutral Wire Insertion	11	DRED Power Supply Needle Stand
5	Four-way Valve Needle Stand	12	DRED Communication Needle Stand
6	Chassis Electric Heating Belt Needle Stand	13	EEP Flash Drive Needle Stand
7	Electronic Expansion Valve Needle Stand		

GWH24AFE-K6DNA2I/O



No.	Name	No.	Name
1	Electronic Expansion Valve Needle Stand	9	Four-way Valve Needle Stand
2	EEP Flash Drive Needle Stand 1(Reserved)		Chassis Electric Heating Belt Needle Stand
3	Computer Monitor Needle Stand	11	Four-way Valve Needle Stand
4	EEP Flash Drive Needle Stand	12	Brushless DC Motor Needle Stand
5	Earthing Wire Insertion	13	Temperature Sensor Needle Stand
6	Live Wire Insertion	14	Compressor Overload Needle Stand
7	Neutral Wire Insertion	15	Compressor Wire Insertion
8	Communication Wire Insertion	16	Program Debugging Needle Stand

6. Function and Control

6.1 Remote Controller Introduction for YAP1F7

Buttons on remote controller



Introduction for icons on display screen

ı.		I feel			
	FAN AUTO	Set fan speed			
	11111	·			
	<u></u>	Turbo mode			
	<u>^</u>	Send signal			
ge	۵	Auto mode			
Operation mode	*	Cool mode			
tion	44	Dry mode			
era	%	Fan mode			
Q	*	Heat mode			
	© 3	Sleep mode			
	\$	8°C heating function			
	₽	Power limiting operation			
	*	Health mode			
	£	Scavenging function			
	&	X-FAN function			
	^				
ء:لہ	Temp.				
als	spiay type	Outdoor ambient temp.			
	0	Clock			
	88	Set temperature			
WIFI		WiFi function			
88:88		Set time			
ONOFF		TIMER ON / TIMER OFF			
灬		Left & right swing			
₩0		Up & down swing			
		Child lock			
	ଦ	Quiet			

Introduction for buttons on remote controller

NOTE:

- This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.
- 2. After putting through the power, the air conditioner will give out a sound. Operation indicator () is ON (red indicator, the colour is different for different models). After that, you can operate the air conditioner by using remote controller.
- 3. Under on status, pressing the button on the remote controller, the signal icon so on the display of remote controller will blink once and the air conditioner will give out a "di" sound, which means the signal has been sent to the air conditioner.
- 4. As for the models with functions of WiFi or wired controller, the indoor unit must has been controlled by standard remote controller under auto mode first, and then the function of adjustable temperature under auto mode can be realized by APP or the wired controller.
- 5. This remote controller can adjust the temperature under auto mode. When matching with the unit which is without the function of adjustable temperature under auto mode, the set temperature under auto mode may be invalid, or the displayed set temperature on the unit is not same as that on the remote controller under auto mode.



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



Press this button to select your required operation mode:

- When selecting auto mode, air conditioner will operate automatically according to the ex-factory setting. Press FAN button can adjust fan speed. Press 素 / 剩 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 ¬ / ¾ 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 ➡ / ҙ 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 ➡ / ¾ 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 ♣ / ¾ button to adjust fan blowing angle. (Cooling only unit won't receive heating mode signal. If setting heat mode with remote controller, press ON/OFF button can't start up the unit).

NOTE:

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

FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO, $\widehat{\Phi}$, \blacksquare , $\blacksquare\blacksquare$, $\blacksquare\blacksquare\blacksquare$, $\blacksquare\blacksquare\blacksquare$, then back to Auto.

NOTE:

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

button for 2s to stop indoor fan directly.

 Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

TURBO button

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

△ / ▽ button

- 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 T-ON, T-OFF or CLOCK, press △ or ▽ button to adjust time. (Refer to CLOCK, T-ON, T-OFF buttons)

button

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

NOTE:

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

♦ button

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

68 <u>Technical Information</u>

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

- When selecting ³⁰, air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.
- When selecting -0, -0, 0, 0, p, air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.

NOTE:

- **▼**⁰, **尽**⁰, **尽**⁰ may not be available. When air conditioner receives this signal, the air conditioner will blow fan automatically.
- Press this button continuously for more than 2s, the main unit will swing back and forth from up to down, and then loosen the button, the unit present position of guide louver will be kept immediately.
- Under up and down swing mode, when the status is switched from off to ³⁰, if press this button again 2s later, ³⁰ status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

T-ON T-OFF) button

T-ON button

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

T-OFF button

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

NOTE:

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

| FEEL | button

Press this button to start I FEEL function and it 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 it will disappear.

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

(CLOCK) button

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

NOTE:

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

SLEEP button

- Press this button, can select Sleep 1 (© 1), Sleep 2 (© 2),
 Sleep 3 (© 3) and cancel the Sleep, circulate between these,
 after electrified, Sleep Cancel is defaulted.
- Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1, two hours, setting temperature increased 2°C,

then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1, two hours, setting temperature will decrease 2, then the unit will run at this setting temperature.

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

WiFi button

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

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

• This function is only available for some models.

☀/釦 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 ①. Press the button for the second time to start health and scavenging functions simultaneously; LCD displays ② and ③. 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 ③. Press this button again to repeat the operation above.

• This function is only available for some models.

LIGHT button

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 button

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



Function introduction for combination buttons

Energy-saving function

Under cooling mode, press **TEMP** and **CLOCK** buttons simultaneously to start up or turn off 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-factory setting to reach to the best energy-saving effect. Press **TEMP** and **CLOCK** buttons simultaneously again to exit energysaving function.

NOTE:

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

cool mode, press sleep button will cancel energy-saving function. If sleep function has been set under cool mode, start up the energy-saving function will cancel sleep function.

8°C heating function

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

NOTE:

- Under 8°C heating function, fan speed is defaulted at auto speed and it can't be adjusted.
- Under 8°C heating function, set temperature can't be adjusted.
- Press TURBO button and the remote controller won't send signal.
- Sleep function and 8°C heating function can't operate at the same time. If 8°C heating function has been set under heat mode, press sleep button will cancel 8°C heating function.
 If sleep function has been set under heat mode, start up the 8°C heating function will cancel sleep function.
- Under °F temperature display, the remote controller will display 46°F heating.

Child lock function

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

Temperature display switchover function

Auto clean function

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

NOTE:

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

function

Press **MODE** and **SLEEP** buttons simultaneously to start **\$** function.

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



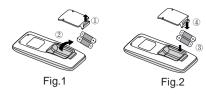
- Maximum power limited under the ₱ mode is lower than that
 of ₱ mode.
- If you want to cancel the power limiting function, press the button \$\overline{\sigma}\$ till the icon in remote controller is not displayed.
- When the remote controller is turned off, power limiting function is cancelled. If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

NOTE:

This function is only available for some models.

Replacement of batteries in temote controller

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



NOTICE:

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

6.2 Remote Controller Introduction for YAY1F1

Buttons on remote controller



Introduction for icons on display

Ė	I feel	
FAN AUTO	Set fan speed	
\$	Turbo mode	
♠	Send signal	
g 🛆	Auto mode	
Speration mode	Cool mode	
rion 44	Dry mode	
Seral Seral	Fan mode	
o 🌣	Heat mode	
C 3	Sleep mode	
ւ'-	Light	
•	Power limiting operation	
*	X-FAN function	
1	Indoor ambient temp.	
(Clock	
88:	Set temperature	
WIFI	WiFi function	
88:88	Set time	
ONOFF	TIMER ON / TIMER OFF	
灬	Left & right swing	
₽ ,0	Up & down swing	
	Child lock	
ନ	Quiet	

Introduction for buttons on remote controller

NOTE:

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

(I) button

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

MODE button

Press this button to select your required operation mode.

- When selecting auto mode, air conditioner will operate automatically according to ambient temperature. Set temperature can't be adjusted and will not be displayed as well. Press "FAN" button can adjust fan speed. Press "SWING" button can adjust fan blowing angle.
- When selecting cool mode, air conditioner will operate under cool mode. Press "+" or "-" button to adjust set temperature.
 Press "FAN" button to adjust fan speed. Press "SWING" button to adjust fan blowing angle.
- When selecting dry mode, the air conditioner operates at low speed under dry mode. Under dry mode, fan speed can't be adjusted. Press "SWING" button to adjust fan blowing angle.
- When selecting fan mode, the air conditioner will only blow fan, no cooling and no heating. Press "FAN" button to adjust fan speed. Press "SWING" button to adjust fan blowing angle.
- When selecting heat mode, the air conditioner operates under heat mode. Press "+" or "-" button to adjust set temperature.
 Press "FAN" button to adjust fan speed. Press "SWING" button to adjust fan blowing angle.

NOTE:

 For preventing cold air, after starting up heat mode, indoor unit will delay 1~5 minutes to blow air (Actual delay time

depends on indoor ambient temperature).

- Set temperature range from remote controller: 16~30°C (61~86°F).
- This mode indicator is not available for some models.
- Cooling only unit won't receive heat mode signal. If setting
 heat mode with remote cont roller, press "也" button can't
 start up the unit.

Fan button

NOTE:

- Under AUTO speed, air conditioner will select proper fan speed automatically according to factory default setting.
- It's low fan speed under dry mode.
- X-FAN function: Holding fan speed button for 2 seconds 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 2 seconds 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.

-/+button

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

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

MENU button

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



NOTE:

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

ြဲငုံ Light function

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

C Sleep function

When selecting sleeping function, sleeping icon "C" flashes for 5 seconds; press "SET" button within 5 seconds can select Sleep 1 (C1), Sleep 2 (C2), Sleep 3 (C3) and cancel Sleep circularly.

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

 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 10 seconds, there is no button pressed, the sleep curve setting within 10 seconds, 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 "O" button, "MODE" button, the sleep curve setting or enquiry status will quit similarly.

TIMER ON function

TIMER ON function can set the time for timer on. Under TIMER ON function status, "①" 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 1minute. Hold "+" or "-" button, 2 seconds later, the time will change quickly until reaching your required time. Press "SET" button to confirm it within 5 seconds. The word "ON" will stop blinking.

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

TIMER OFF function

TIMER OFF function can set the time for timer off. Under TIMER OFF function status, "①" 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 1minute. Hold "+" or "-" button, 2 seconds later, the time will change quickly until reaching your required time, press "SET" button to confirm it within 5 seconds. The word "OFF" will stop blinking.

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

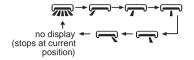
(CLOCK function)

CLOCK function can set clock time. Under CLOCK function status, "⊕" icon on remote controller will blink. Press "+" or "-" button within 5 seconds to set clock time. Each pressing of "+" or "-" button, clock time will increas e or decrease 1 minute. If hold "+" or "-" button, 2 seconds later, time will change quickly. Release this button when reaching your required time, press "SET" button to confirm it within 5 seconds. The "⊕" icon will stop blinking.

Left & right swing function

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

Fan blow angle can be selected circularly as below:



NOTE:

• The function is only available for some models.

F. I FEEL function

When selecting I FEEL function, I FEEL icon ".* If "flashes for 5 seconds. Press "SET" button to start I FEEL function within 5 seconds and ".* will be displayed on the remote controller. After this function is set, the remote controller will send the detected ambient temperature to the controller and the unit will automatically adjust the indoor temperature according to the detected temperature. Press "SET" button again to cancel I FEEL function and ".* will disappear.

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

(SE Energy-saving function)

Under cooling mode, when selecting energy-saving function, energy-saving function icon "5£" flashes for 5 seconds; press "SET" button within 5 seconds to turn on or turn off energy-saving function. When energy-saving function is started up, "SE" will be shown on remote controller, and air conditioner will adjust the set temperature automatically according to ex-factory setting to reach to the best energy-saving effect. Press "SET" button again to exit energy-saving function.

$\left(m{m{eta}}_{\!\scriptscriptstyle ar{\scriptscriptstyle ext{c}}}$ 8°C-heating functionight)

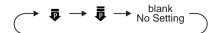
Under heating mode, when selecting 8°C-heating function, 8°C-heating icon "8." flashes for 5 seconds; press "SET" button within 5 seconds to turn on or turn off 8°C-heating. When 8°C-heating is started up, "8." will be shown on remote controller, and the air conditioner keep the heating status at 8°C.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

NOTE:

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

Power limiting function

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



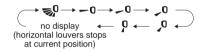
- Maximum power limited under the \$\overline{\bar{a}}\$ mode is lower than that
 of \$\overline{a}\$ mode.
- If the current power is lower than the maximum power of \$\overline{\sigma}\$ mode, then the power will not be limited after entering into such mode.
- For the model with one outdoor unit and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

NOTE:

• The function is only available for some models.

SWING button

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



- When selecting "-0, -0, -0, p", air conditioner is blowing fan at fixed position. Horizontal louver will stop at the fixed position.
- Hold "

 □" button above 2 seconds to set your required swing angle. When reaching your required angle, release the button.

NOTE:

- Press this button continuously for more than 2 seconds, 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 \$\mathbb{z}_0\$, if press this button again 2 seconds later, \$\mathbb{z}_0\$ status will switch to off status directly; if press this button again within 2 seconds, the change of swing status will also depend on the circulation sequence stated above.

TURBO button

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

Function introduction for combination buttons

Child lock function

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

Temperature display switchover function

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

Auto clean function

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

NOTE:

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

WiFi function

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

● ● ● ● ■ Technical Information

NOTE:

• This function is only available for some models.

Ambient temperature display function

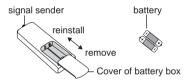
Press "SWING" and "SET" buttons simultaneously, you can see indoor ambient temperature on indoor unit's displayer and the " 🗓 " icon will be displayed on remote controller. The setting on remote controller is selected circularly as below:



Adjustable temperature under auto mode

The remote controller defaulted that the set temperature can't be adjusted and it won't be displayed under AUTO mode; when pressing "+" and "SET" buttons simultaneously under off status for consecutive 5 seconds, the set temperature can be adjusted under AUTO mode. After setting is succeeded, the set temperature on the remote controller flashes for 3 times.

Replacement of batteries in remote controller



- 1. Press the back side of remote controller marked with "", 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.

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.

6.3 Brief Description of Models and Functions

• Indoor Unit

1. Basic function of system

(1) Cooling mode

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

(2) Drying mode

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

(3) Heating mode

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

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

(4) Working method for AUTO mode:

1. Working condition and process for AUTO mode:

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

- 2.Protection function
- a. During cooling operation, protection function is same as that under cooling mode.
- b. During heating operation, protection function is same as that under heating mode.
- 3. Display: Set temperature is the set value under each condition. Ambient temperature is $(T_{amb.}-T_{compensation})$ for heat pump unit and $T_{amb.}$ for cooling only unit.
- 4. If theres I feel function, $T_{\text{compensation}}$ is 0. Others are same as above.

(5) Fan mode

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

2. Other control

(1) Buzzer

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

(2) Auto 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.

(3) Sleep

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

(4) Timer function:

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

(5) Memory function

memorize compensation temperature, off-peak energization value. Memory content: mode, up & down swing, light, set temperature, set fan speed, general timer (clock timer can't be memorized).

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

(6) Health function

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

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

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

1) Auto mode

① Operation condition and process for auto mode

Under auto mode, the system will automatically select operation mode (cooling, heating, and fan) according to indoor ambient temperature. There swill be 30s delayed for protection between mode switchover.

- ◆ When T_{amb.} ≥26°C, unit will be in cooling mode°C Ex-factory set temperature is 25°C
- ♦ Cooling and heating unit: When $T_{amb} \le (19^{\circ}C + T_{compensation})$, unit will be in heating mode $T_{preset} = 20^{\circ}C$.
- ♦ Cooling only unit: When $T_{amb.} \le 22^{\circ}C(or\ 72^{\circ}F)$, unit will be in fan mode $T_{preset} = 25^{\circ}C$.
- $\label{eq:total_compensation}$ For cooling and heating unit under condition that $(19^{\circ}\text{C}+\text{T}_{\text{compensation}}) < \text{T}_{\text{amb.}} < 26^{\circ}\text{C}$ (For cooling only unit under condition that $22^{\circ}\text{C} < \text{T}_{\text{amb.}} < 26^{\circ}\text{C}$), when unit is initially turned on in auto mode, it will operate according to auto fan mode. When unit is changed to auto mode from other modes, it will maintain its previous working status (If auto mode is turned on from drying mode, unit will operate according to auto fan mode).
- ② Protection function is same as that under each mode.

2) Cooling mode

- (1) Operation condition and process for cooling mode
- ♦ When $T_{amb.} \ge T_{set} + 1$ °C, the system operates under cooling mode. In this case, the compressor, the ODU fan motor and the IDU fan motor operates at set speed.
- ◆ When T_{amb.} ≤T_{set}-1°C, the compressor and the ODU fan motor stop, while the IDU fan motor operates at set speed.
- ♦ When T_{set}-1°C<T_{amb} <T_{set}+1°C, the system will maintain its

previous operation status.

In cooling mode, the 4-way valve is de-energized (4-way valve is not available for cooling only unit). Temperature setting range is $16\sim30^{\circ}$ C.

(7) 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.

(8) Entry condition for compulsory defrosting function When turn on the unit under heating ode and set temperature is 16°C (or 16.5°C by remote controller), press "∧, ▽, △, ▽, △, ▽

- " button successively within 5s and then indoor unit will enter into compulsory defrosting setting status:
- (1) If theres only indoor units controller, it enters into indoor normal defrosting mode.
- (2) If theres indoor units controller and outdoor units controller, indoor unit will send compulsory defrosting mode signal to outdoor unit and then outdoor unit will operate under normal defrosting mode. After indoor unit received the signal that outdoor unit has entered into defrosting status, indoor unit will cancel to send compulsory mode to outdoor unit. If outdoor unit hasnt received feedback signal from outdoor unit after 3min, indoor unit will also cancel to send compulsory defrosting signal.

(9) Refrigerant recovery function:

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

(10) 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.
- 2. 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.

(11) Off-peak energization function:

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

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

(12) SE control mode

The unit operates at SE status.

(13) X-fan mode

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

(14) 8°C heating function

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

(15) Turbo function

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

Outdoor Unit

1. Basic Functions

(1) Cooling Mode

- 1. Conditions and processes of cooling operation:
- (1) If the compressor is shut down, and $[T_{\text{setup}} (T_{\text{indoor ambient temperature}} _ T_{\text{cooling indoor ambient temperature compensation}}] < 0^{\circ}\text{C}$, start up the machine for cooling, the cooling operation will start;
- (2) During operations of cooling, if $0^{\circ}C \leq [T_{\text{setup}} (T_{\text{indoor ambient temperature}} T_{\text{cooling indoor ambient temperature compensation}}] < 2^{\circ}C$, the cooling operation will be still running;
- (3) During operations of cooling, if $2^{\circ}C \leq [T_{\text{setup}} (T_{\text{indoor ambient temperature}} T_{\text{cooling indoor ambient temperature compensation}})]$, the cooling operation will stop after reaching the temperature point.
- 2. Temperature setting range
- (1) If $T_{outdoor\ ambient\ temperature} \ge [T_{low\ temperature\ cooling\ temperature}]$, the temperature can be set at: $16\sim30^{\circ}C$ (Cooling at room temperature);
- (2) If $T_{outdoor\ ambient\ temperature} < [T_{low-temperature\ cooling\ temperature}]$, the temperature can be set at: $25{\sim}30^{\circ}C$ (Cooling at low temperature), that is, the minimum setting temperature for outer units judgment is $25^{\circ}C$.

(2) Dehumidifying Mode

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

(3) Air-supplying Mode

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

(4) Heating Mode

- 1. Conditions and processes of heating operations:
- $(T_{indoor\ ambient\ temperature}\ is\ the\ actual\ detection\ temperature\ of\ indoor\ environment\ thermo-bulb,\ T_{heating\ indoor\ ambient\ temperature\ compensation}$ is the indoor ambient temperature compensation during heating operations)
- (1) If the compressor is shut down, and [($T_{indoor\ ambient\ temperature} \triangle T_{heating\ indoor\ ambient\ temperature\ compensation}) T_{setup}$] < 0°C , start the machine to

enter into heating operations for heating;

- (2) During operations of heating, if $0^{\circ}C \leq [(T_{indoor\ ambient\ temperature} T_{heating\ indoor\ ambient\ temperature\ compensation}) T_{setup}] < 2^{\circ}C$, the heating operation will be still running;
- (3) During operations of heating, if $2^{\circ}C \leq [(T_{indoor\ ambient\ temperature} \triangle]$ $T_{heating\ indoor\ ambient\ temperature\ compensation}) - T_{setup}]$, the heating operation will stop after reaching the temperature point.
- 2. The temperature setting range in this mode is: 16~30°C.

3. Special Functions

Defrosting Control

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:

- 4 The continuous running time of defrosting reaches [$t_{max.\ defrosting}$].

4. Control Logic

(1) Compressor Control

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

1. Cooling mode

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

2. Dehumidifying mode

Same as the cooling mode.

3. Air-supplying mode

The compressor is switched off.

- 4. Heating mode
- (1) Start the machine to enter into heating operation for heating, the compressor is switched on.
- (2) Defrosting:
- a. Defrosting starts: the compressor is shut down, and restarts it after 55-second delay.
- b. Defrosting ends: the compressor stops, then starts it after 55-second delay.

(2) Outer Fans Control

Notes:

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

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

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

(3) 4-way valve control

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

(4) Evaporatorrozen-preventing protection function

1. Starting estimation:

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

2. Frequency limited

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

(5) Compressor overloads protection

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

Protection times clearing of compressor overloading] 30 minutes.

(6) Communication fault

When you have not received any correct signal from the inner

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

(7) Module protection

Testing the module protective signal immediately after started, once the module protective signal is measured, stop the machine with module protection immediately. If the module protection is resumed, the machine will be allowed to operate. If the module protection continuously occurs for three times, it should not be resumed automatically, and you should press the ON/OFF button to resume. If the running time of compressor exceeds the [$t_{\text{Protection}}$ 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 $T_{\text{Module}} < [T_{\text{Module}}]$, the machine is allowed to start, otherwise it should not be started, and should be stopped to treat according to the module overheating protection: The machine should be stopped or transferred to supply air, the trouble should be cleared immediately, and the protection times are not counted.

2. Frequency limited

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

5. Power turn-off:

- If the $[T_{Power turn-off temperature of module}] \le T_{Module}$, you should stop the machine for module overheating protection; If TModule $<[T_{Limited}]$ frequency temperature of module] and the compressor has been stopped for 3 minutes, the machine should be allowed to operate.
- 6. If protection continuously occurs for six times, it should not be resumed automatically, and you should press the ON/OFF button to resume. During the process of running, if the running time of compressor exceeds the [t Protection times clearing of module], the discharge protection is cleared to recount. Stopped or transferred to supply air mode will clear the trouble times immediately (if the trouble can not be resumed, mode transferring also will not clear it).

(10) Phase current overcurrent protection of compressor

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

- 1. Frequency limited
- If $[I_{Limited\ frequency\ phase\ current}] \le [I_{Phase\ current\ T\ frequency\ reducing\ phase\ current}]$, you should limit the frequency raising of compressor.
- 2. Reducing Frequency
- If $[I_{Frequency\ Reducing\ Phase\ Current}] \le I_{Phase\ Current} < [I_{Power\ Turn-Off\ Phase\ Current}]$, the compressor shall continue to reduce frequency till the lowest frequency limit or out of the condition of reducing frequency;
- 3. Power turn-off
- If [I Phase Current]≥[I Power Turn-Off Phase Current], the compressor phase current shall stop working for overcurrent protection; if [I Phase Current]≤[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.

(11) Starting-up Failure Protection for Compressor

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

(12) Out-of-Step Protection for Compressor

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

(13) Voltage Abnormity Protection for DC Bus

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

1. Over-Low Voltage Protection for DC Bus:

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

minutes.

2. Over-High Voltage Protection for DC Bus

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

(14) Abnormity Protection for Four-way Valve

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

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

(15) PFC Protection

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

(16) Failure Detection for Sensor

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

82

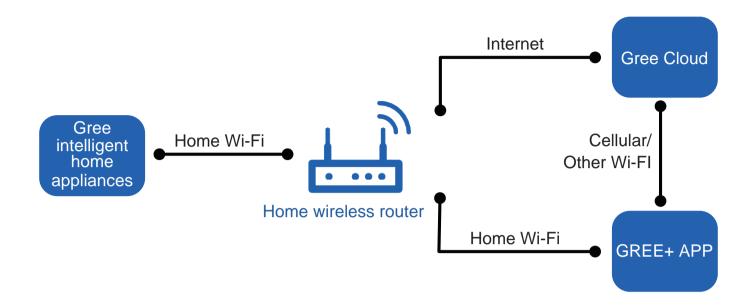
(a) The compressor only detect the sensor failure after it start up 3

min in normal mode;

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

6.4 GREE+ App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system
Support Android 4.4 and above version

Download and installation

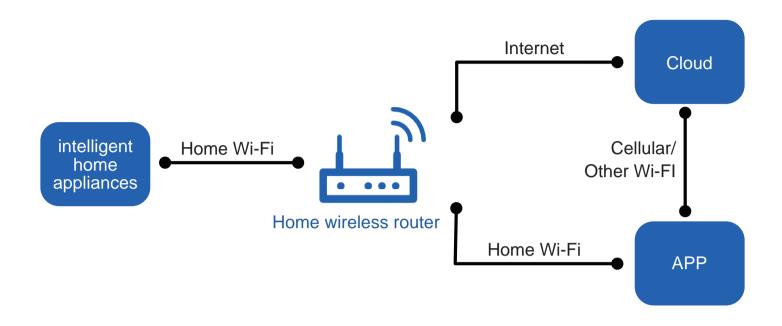


GREE+ App Download Linkage

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

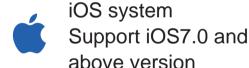
6.5 Ewpe Smart App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system
Support Android 4.4 and above version

Download and installation



App Download Linkage

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

84 <u>Technical Information</u>

7. Notes for Installation and Maintenance

Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

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



WARNINGS

Electrical Safety Precautions:

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

by yourself.

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

Installation Safety Precautions:

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

Refrigerant Safety Precautions:

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

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

Safety Precautions for Installing and Relocating the Unit:

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

WARNINGS

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

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

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

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

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

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

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

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

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

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

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

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

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

Poor connections may lead to electric shock or fire.

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

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

Safety Precautions for Refrigerant

- To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32, which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.
- Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (For example: open flames, an operating gas appliance or an operating electric heater.) Do not pierce or burn. Appliance shall be installed, operated and stored in a room with a floor area larger than Xm². (Please refer to table "a" in section of "Safety operation of flammable refrigerant" for space X.) Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants may not contain an odour. Read specialist's manual.



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

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



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

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

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

Safety Operation of Flammable Refrigerant

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

2. Installation notes

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

Table a - Minimum room area (m²)

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

3. Maintenance notes

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

4. Welding

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

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

5. Filling the refrigerant

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

6. Safety instructions for transportation and storage

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

Specialist's Manual

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

corrected;

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

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

• Work procedure

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

• General work area

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

• Checking for presence of refrigerant

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

• Presence of fire extinguisher

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

• No ignition sources

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

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

Ventilated area

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

• Checks to the refrigerating equipment

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

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

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

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

Checks to electrical devices

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

Initial safety checks shall include:

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

• Repairs to sealed components

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

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

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

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

• Repair to intrinsically safe components

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

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

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

Cabling

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

• Detection of flammable refrigerants

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

Leak detection methods

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

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

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

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

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

process.

Removal and evacuation

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

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

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

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

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

Charging procedures

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

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

system.

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

Decommissioning

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

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

Labelling

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

Recovery

92

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

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

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

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

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

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

General

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

That compliance with national gas regulations shall be observed.

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

Main Tools for Installation and Maintenance







































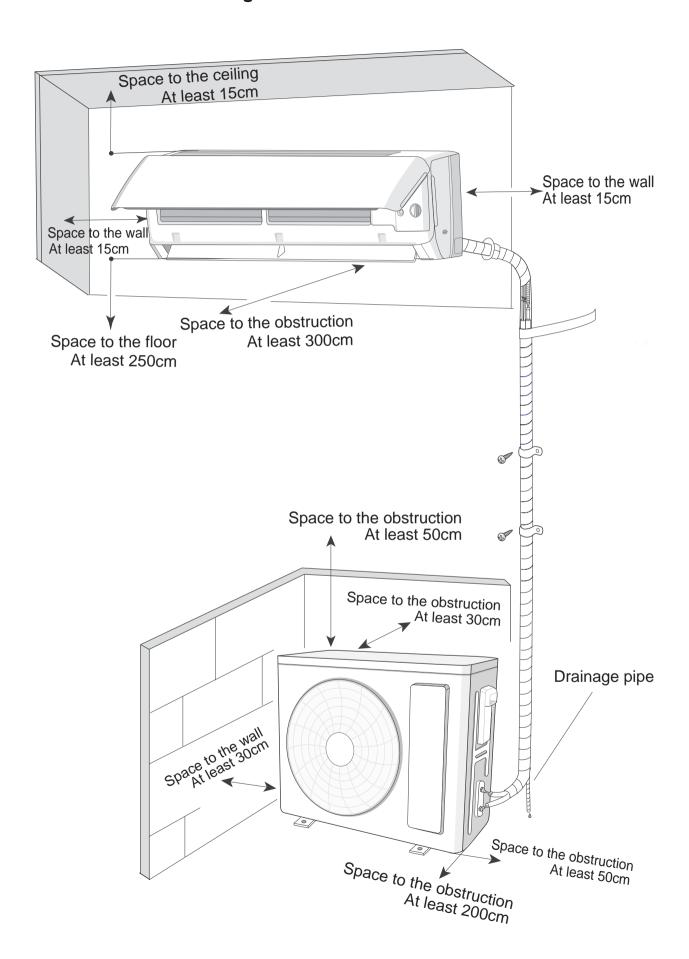




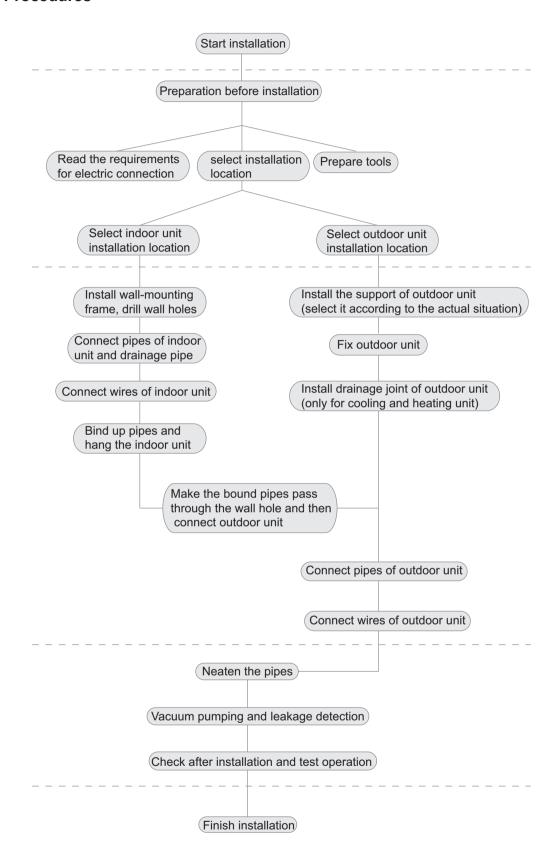


8. Installation

8.1 Installation Dimension Diagram



Installation Procedures



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

8.2 Installation Parts-checking

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

NOTE:

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

8.3 Selection of Installation Location

1. Basic Requirement

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

- (1) The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.
- (2) The place with high-frequency devices (such as welding machine, medical equipment).
- (3) The place near coast area.
- (4) The place with oil or fumes in the air.
- (5) The place with sulfureted gas.
- (6) Other places with special circumstances.
- (7) The appliance shall nost be installed in the laundry.
- (8) It's not allowed to be installed on the unstable or motive base structure (such as truck) or in the corrosive environment (such as chemical factory).

2. Indoor Unit

- (1) There should be no obstruction near air inlet and air outlet.
- (2) Select a location where the condensation water can be dispersed easily and won't affect other people.
- (3) Select a location which is convenient to connect the outdoor unit and near the power socket.
- (4) Select a location which is out of reach for children.
- (5) The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.

- (6) The appliance must be installed 2.5m above floor.
- (7) Don't install the indoor unit right above the electric appliance.
- (8) Please try your best to keep way from fluorescent lamp.

3. Outdoor Unit

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

8.4 Electric Connection Requirement

1. Safety Precaution

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

2. Grounding Requirement

- (1) The air conditioner is I class electric appliance. It must be properly grounding with specialized grounding device by a professional. Please make sure it is always grounded effectively, otherwise it may cause electric shock.
- (2) The yellow-green wire in air conditioner is grounding wire, which can't be used for other purposes.
- (3) The grounding resistance should comply with national electric safety regulations.

- (4) The appliance must be positioned so that the plug is accessible.
- (5) An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- (6) Including an air switch with suitable capacity, please note the following table. Air switch should be included magnet buckle and heating buckle function, it can protect the circuit-short and overload. (Caution: please do not use the fuse only for protect the circuit)

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

8.5 Installation of Indoor Unit

1. Choosing Installation Location

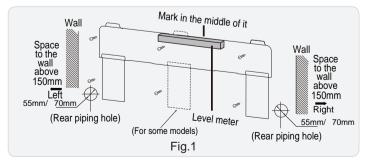
Recommend the installation location to the client and then confirm it with the client.

2. Install Wall-mounting Frame

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

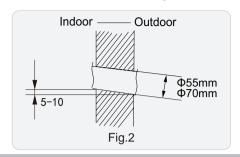
3. Drill Piping Hole

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



(2) When installation is finished, pull the mounting plate with hand to confirm whether it is fixed tightly. The force distribution for all screws should be uniform.

(3) Drill a piping hole with the diameter of Φ 55mm or Φ 70mm on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of 5-10°. (As show in Fig.2)

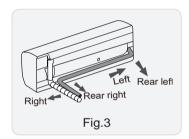


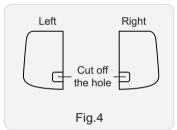
NOTE:

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

4. Outlet Pipe

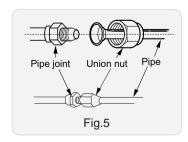
- (1) The pipe can be led out in the direction of right, rear right, left or rear left. (As show in Fig.3)
- (2) When selecting leading out the pipe from left or right, please cut off the corresponding hole on the bottom case. (As show in Fig.4)

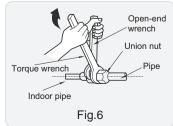


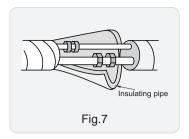


5. Connect the Pipe of Indoor Unit

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





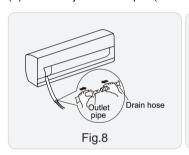


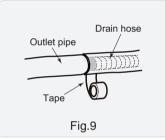
Refer to the following table for wrench moment of force:

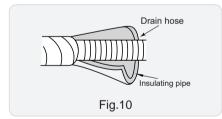
Piping size (inch)	Tightening torque (N·m)
1/4	15~20
3/8	30~40
1/2	45~55
5/8	60~65
3/4	70~75

6. Install Drain Hose

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







NOTE:

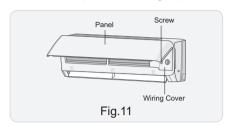
- Add insulating pipe in the indoor drain hose in order to prevent condensation.
- The plastic expansion particles are not provided.

7. Connect Wire of Indoor Unit

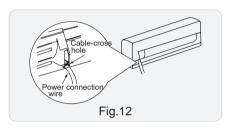
NOTICE:

- All wires of indoor unit and outdoor unit should be connected by a professional.
- If the length of power connection wire is insufficient, please contact the supplier for a new one. Avoid extending the wire by yourself.

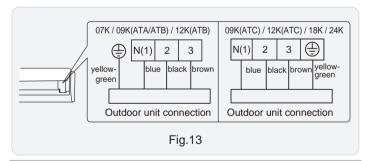
- For the air conditioner with plug, the plug should be reachable after finishing installation.
- For the air conditioner without plug, an air switch must be installed in the line. The air switch should be all-pole parting and the contact parting distance should be more than 3mm.
- (1) Open the panel, remove the screw on the wiring cover and then take down the cover. (As show in Fig.11)



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



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



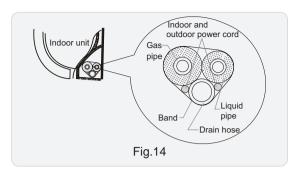
NOTICE:

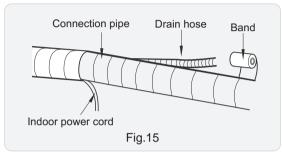
• The wiring board is for reference only, please refer to the actual one.

8. Bind up Pipe

- (1) Bind up the connection pipe, power cord and drain hose with the band. (As show in Fig.14)
- (2) Reserve a certain length of drain hose and power cord for installation when binding them. When binding to a certain degree, separate the indoor power and then separate the drain hose. (As show in Fig.15)

- (3) Bind them evenly.
- (4) The liquid pipe and gas pipe should be bound separately at the end.



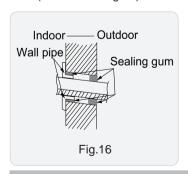


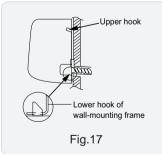
NOTE:

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

9. Hang the Indoor Unit

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





NOTE:

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

8.6 Installation of Outdoor Unit

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

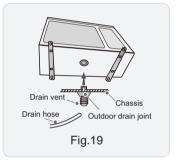
to the actual installation situation)

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

NOTICE:

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





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

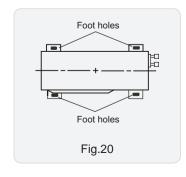
- (1) Connect the outdoor drain joint into the hole on the chassis.
- (2) Connect the drain hose into the drain vent. (As show in Fig.19)

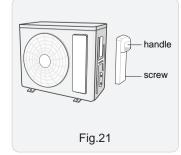
NOTICE:

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

3. Fix Outdoor Unit

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





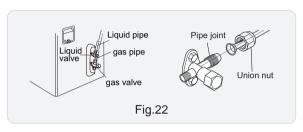
NOTE:

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



4. Connect Indoor and Outdoor Pipes

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



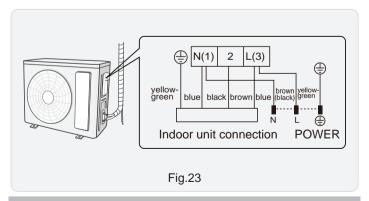
- (3) Pretightening the union nut with hand.
- (4) Tighten the union nut with torque wrench.

Refer to the following table for wrench moment of force:

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

5. Connect Outdoor Electric Wire

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



NOTICE:

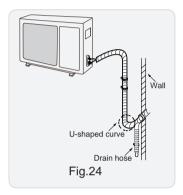
- The wiring board is for reference only, please refer to the actual one.
- (2) Fix the power connection wire and signal control wire with wire clip (only for heat pump models).

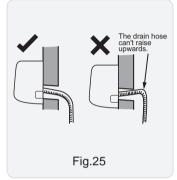
NOTICE:

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

6. Neaten the Pipes

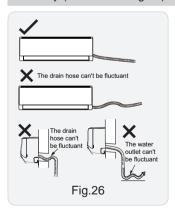
- (1) The pipes should be placed along the wall, bent reasonably and hidden possibly. Min. semidiameter of bending the pipe is 10cm.
- (2) If the outdoor unit is higher than the wall hole, you must set a U-shaped curve in the pipe before pipe goes into the room, in order to prevent rain from getting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





NOTICE:

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



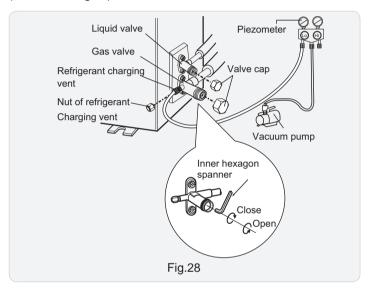


8.7 Vacuum Pumping and Leak Detection

1. Use Vacuum Pump

(1) Remove the valve caps on the liquid valve and gas valve and the nut of refrigerant charging vent.

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



2. Leakage Detection

(1) With leakage detector:

Check if there is leakage with leakage detector.

(2) With soap water:

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

8.8 Check after Installation and Test Operation

1. Check after Installation

Check according to the following requirement after finishing installation.

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

2. Test Operation

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

9. Maintenance

9.1 Error Code List

Error code	Malfunction name	AC status	Possible causes
65	Malfunction of jumper cap	The complete unit stops operation	 Jumper cap is not installed in control panel; Poor contact of jumper cap; Jumper cap is damaged; The tested circuit of jumper cap on control panel is abnormal.
88	Communication malfunction between indoor unit and outdoor unit	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Communication malfunction"
H5	IPM protection	Cool/Dry: compressor stops operation, while indoor fan operates. Heat: all loads stops operation.	See "IPM protection, over-phase current of compressor"
L3 L8	Malfunction of outdoor fan/ malfunction of DC motor	Cool/Dry: all loads stops operation except indoor fan. Heat: all loads stops operation.	 Outdoor condenser, air inlet and air outlet are blocked by filth or dirt; Fan is blocked or loosened; Motor or connection wire of motor is damaged; Main board of outdoor unit is damaged; (As for dual-outdoor fan, L3 indicates fan 1; LA indicates fan 2)
H3	Overload protection of compressor	Cool/Dry: compressor stops operation, while indoor fan operates. Heat: all loads stops operation.	1. Overload wire of compressor is loose; 2. The overload protector is damaged. Under normal circumstances, the resistance between both ends of terminal is less than 10hm. 3. See "Overload protection of compressor, High discharge temperature protection of compressor"
FO	Refrigerant insufficient protection, cut-off protection of refrigerant	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: Compressor, outdoor fan and indoor fan stops operation.	 Is system cooling under high humidity environment, thus temperature difference of heat transfer is small; Check whether the big valve and small valve of outdoor unit are opened completely; Is the temperature sensor of evaporator of indoor unit loose? Is the temperature sensor of condenser of outdoor unit loose? Is the capillary or the electronic expansion valve blocked? Is refrigerant leaking?
F :	Indoor ambient temperature sensor is open/short-circuited	Cool/Dry: indoor fan operates, while compressor and outdoor fan stops operation; Heat: all loads stops operation.	Temperature sensor is not well connected; Temperature sensor is damaged 3. Main board of indoor unit is damaged.
F2	Indoor evaporator temperature sensor is open/short-circuited	Cool/Dry: indoor fan operates, while compressor and outdoor fan stops operation; Heat: all loads stops operation.	Temperature sensor is not well connected; Temperature sensor is damaged Main board of indoor unit is damaged.
H8	No feedback from indoor unit's motor	The complete unit stops operation	 Is the fan blocked? Is the motor terminal loose? Is the connection wire of motor damaged? Is the motor damaged? Is the main board of indoor unit damaged?
ſρ	Indoor unit and outdoor can be matched with each other	Heat: compressor, outdoor unit and indoor fan stops operation.	Capacity of indoor unit and outdoor unit can't be matched.
[4	Malfunction of jumper cap of outdoor unit	Heat: all loads are stopped; other modes: outdoor unit stops operation.	Jumper cap of outdoor unit hasn't been installed.
67	Gas valve temperature sensor is ON / short-circuited		 Temperature sensor is not well connected or damaged; The wire of temperature sensor is damaged, causing short circuit to copper pipe or outer casing; Main board of outdoor unit is damaged.

Error	Malfunction name	AC status	Possible causes
6 5	Liquid valve temperature sensor is ON / short- circuited		Temperature sensor is not well connected or damaged; The wire of temperature sensor is damaged, causing short circuit to copper pipe or outer casing; Main board of outdoor unit is damaged.
E :	High pressure protection of system	Cool/Dry: all loads stops operation except indoor fan; Heat: all loads stops operation.	1. Heat exchange of outdoor unit is too dirty, or it blocked the air inlet/outlet; 2. Is power voltage normal; (three-phase unit) 3. Ambient temperature is too high; 4. Wiring of high pressure switch is loose or high pressure switch is damaged; 5. The internal system is blocked; (dirt blockage, ice blockage, oil blockage, angle valve is not completely opened) 6. Main board of outdoor unit is damaged; 7. Refrigerant is too much.
£3	Low pressure/low system pressure protection/ compressor low pressure protection	Cool: compressor, outdoor fan and indoor fan stop operation; Heat: compressor and outdoor fan stop operation at first. About 1 minute later, indoor fan stops operation; 2 minutes later, the 4-way valve stop operation.	Low pressure switch is damaged; Refrigerant inside the system is insufficient.
E 4	High discharge temperature protection of compressor	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Overload protection of compressor, High discharge temperature protection of compressor"
E S	AC overcurrent protection	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates; Heat: all loads stops operation.	 Power voltage is unstable; Power voltage is too low; System load is too high, which leads to high current; Heat exchange of indoor unit is too dirty, or it blocked the air inlet/outlet; Fan motor operation is abnormal; the fan speed is too low or not functioning; Compressor is blocked; The internal system is blocked; (dirt blockage, ice blockage, oil blockage, angle valve is not completely opened) Main board of outdoor unit is damaged. See "AC overcurrent protection"
£7	Mode shock/sysmte mode shock	Load of indoor unit stops operation (indoor fan, E-heater, swing)	Malfunction of one-to-more system; there may be two indoor units which has set the shock mode, such as one is cooling and the other is heating.
83	High temperature prevention protection	Cool: compressor stops operation while indoor fan operates; Heat: all loads stops operation.	See "High temperature prevention protection; high power; system isabnormal"
88	Malfunction of EEPROM	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Main board of outdoor unit is damaged.
۶o	Refrigerant-recovery mode	Cool/Dry: compressor and outdoor fan stops operation, while indoor fan operates.	Refrigerant recovery. The maintenance personnel operate it when he is maintaining the unit.
F3	Outdoor ambient temperature is open/short-circuited	Cool/Dry: compressor and outdoor fan stop operation, while indoor fan operates; Heat: all loads stops operation.	Temperature sensor is not connected well or damaged; Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case; Main board of outdoor unit is damaged;

Error code	Malfunction name	AC status	Possible causes
FY	Outdoor condenser tem- perature sensor is open/ short-circuited	Cool/Dry: compressor and outdoor fan stop operation, while indoor fan operates; Heat: after operating for 3 minutes, all loads stops operation.	Temperature sensor is not connected well or damaged; Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case; Main board of outdoor unit is damaged.
F5	Outdoor air discharge temperature is open/short- circuited	Complete unit stops operation; motor of sliding door is cut off power.	The exhaust temperature sensor is not connected well or damaged. Temperature sensor wire of outdoor unit is damaged; short circuit between the temperature sensor and copper pipe or outer case Main board of outdoor unit is damaged;
FE	Malfunction of micro switch	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	The sliding door is blocked; Malfunction of the photoelectric inspection panel of sliding door;
HY	System is abnormal	Cool/Dry: all loads stops operation except indoor fan; Heat: all loads stops operation.	See "High temperature prevention protection; high power; system is abnormal"
H7	Desynchronizing of compressor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Desynchronization diagnosis for compressor"
H[PFC protection	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	 The power grid quality is bad; AC input voltage fluctuates sharply; Power plug of air conditioner or wiring board or reactor is not connected reliably; Indoor and outdoor heat exchanger is too dirty, or air inlet/outlet is blocked; Main board of outdoor unit is damaged.
HE	Demagnetization protection of compressor	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The main board of outdoor unit is damaged; Compressor is damaged;
JF	Communication malfunction between indoor unit and inspection board	Normal operation	Poor connection between the indoor unit and the inspection board. The main board of indoor unit is damaged; The inspection board is damaged;
LI	Malfunction of humidity sensor	Compressor, outdoor fan and indoor fan stop operation;	The inspection board is damaged.
٤9	High power protection	Cool: compressor and outdoor fan stops operation, while indoor fan operates.	See "High temperature prevention protection; high power; system is abnormal"
Lc	Start-up failed	Cool/Dry: compressor stops, while indoor fan operates; Heat: all loads stops operation.	See "Malfunction diagnosis for failure startup"
۲٩	Lost phase	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The main board of outdoor unit is damaged; The compressor is damaged; The connection wire of compressor is not connected well.
P5	Over-phase current protection of compressor	Cool/Dry: compressor stops opera- tion, while indoor fan operates; Heat: all loads stops operation.	See "Overload protection of compressor, High discharge temperature protection of compressor"

Error code	Malfunction name	AC status	Possible causes
оЕ	Undefined outdoor unit error	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stop operation.	1. Outdoor ambient temperature exceeds the operation range of unit (e.g.: less than 20°C or more than 60°C for cooling; more than 30°C for heating); 2. Are wires of compressor not connected tightly? 3. Failure startup of compressor? 4. Is compressor damaged? 5. Is main board damaged?
28	Communication malfunction between the drive board and the main board	Cool: compressor and outdoor fan stops operation; Heat: compressor and outdoor fan stop at first; about 1 minute later, indoor fan stops operation;	 The drive board is damaged; The main board of outdoor unit is damaged; The drive board and the main board is not connected well.
P7	Circuit malfunction of mod- ule temperature sensor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Replace outdoor control board
Р8	Module overheating protection	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. Air inlet / air outlet of outdoor unit are blocked by filth or dirt; 2. Condenser of outdoor unit is blocked by filth or dirt; 3. IPM screw of main board is not tightened; 4. Main board of outdoor unit is damaged;
PF	Malfunction of ambient temperature sensor of drive board	Cool: compressor, outdoor fan and indoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The ambient temperature sensor of the drive board is not connected well; Malfunction of the ambient temperature sensor of drive board.
PH	DC bus voltage is too high	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	1. Measure the voltage between position L and position N on the wiring board (XT). If it's higher than 265 VAC, please turn on the unit until the power voltage is decreased to the normal range; 2. If the AC input is normal, please replace the outdoor control board.
PL	DC bus voltage is too low	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Measure the voltage between position L and position N on the wiring board (XT). If it's lower than 150 VAC, please turn on the unit until the power voltage is increased to the normal range; If the AC input is normal, please replace the outdoor control board.
ՔՍ	Charging malfunction of capacitor	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	See "Charging malfunction of capacitor"
r۶	Malfunction of RF module	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The connection wire of RF module is not connected well. Malfunction of RF module;
U I	Phase current detection circuit malfunction of	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stops operation.	The control board is damaged
U2	Lost phase protection of compressor	Cool: compressor and outdoor fan stop operation; Heat: compressor and outdoor fan stop operation at first; about 1 minute later, indoor fan stops operation.	The main board of outdoor unit is damaged; The compressor is damaged; The connection wire of compressor is not connected well.

Error	Malfunction name	AC status	Possible causes
U3	DC bus voltage drop mal- function	Cool/Dry: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	The power voltage is unstable.
US	Current detection malfunction of unit	Cool: compressor and outdoor fan stops operation, while indoor fan operates; Heat: compressor, outdoor fan and indoor fan stops operation.	Is the complete unit lacking of refrigerant? There's malfunction for the circuit of control board of outdoor unit. Replace the control board of outdoor unit.
Ul	4-way valve is abnormal	This malfunction occurs when the unit is heating. All loads stops operation.	 Power voltage is lower than AC175V; Wiring terminal of 4-way valve is loose or broken; 4-way valve is damaged. Replace the 4-way valve.
88	Malfunction of zero-cross- ing signal of indoor unit	Compressor, outdoor fan and indoor fan stop operation.	 The power is abnormal; Main board of indoor unit is damaged.
U 9	Zero-crossing malfunction of outdoor unit	Cool: compressor stops operation, while indoor fan operates; Heat: all loads stops operation.	Replace the control board of outdoor unit.
82	Evaporator anti-freezing protection		Not error code, it is the status code in cooling process
E9	Anti cold air protection		Not error code, it is the status code in cooling process
	Defrosting	Heat indicator Flash once/10s	Not error code, it is the status code in cooling process

Analysis or processing of some of the malfunction display:

1. Compressor discharge protection

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

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

2. Low voltage overcurrent protection

Possible cause: Sudden drop of supply voltage.

3. Communication malfunction

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

4. Sensor open or short circuit

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

5. Compressor over load protection

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

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

6. System malfunction

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

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

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

7. IPM module protection

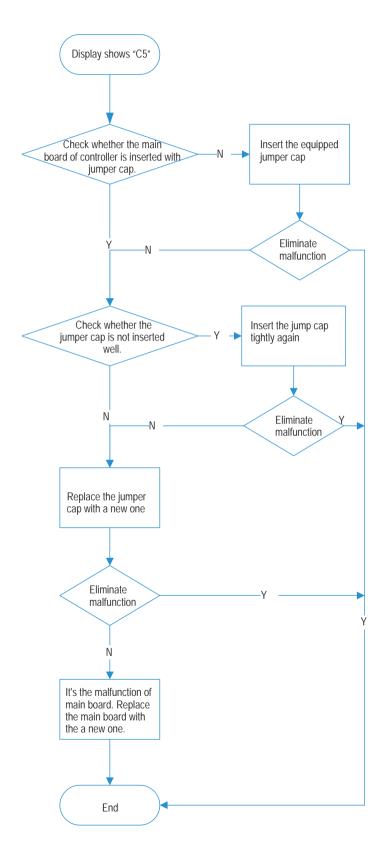
Processing method: Once the module malfunction happens, if it persists for a long time and can not be self-canceled, cut off the power and turn off the unit, and then re-energize the unit again after about 10 min. After repeating the procedure for sever times, if the malfunction still exists, replace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

9.2 Procedure of Troubleshooting

1. Troubleshooting for jumper cap [5

Main check points:

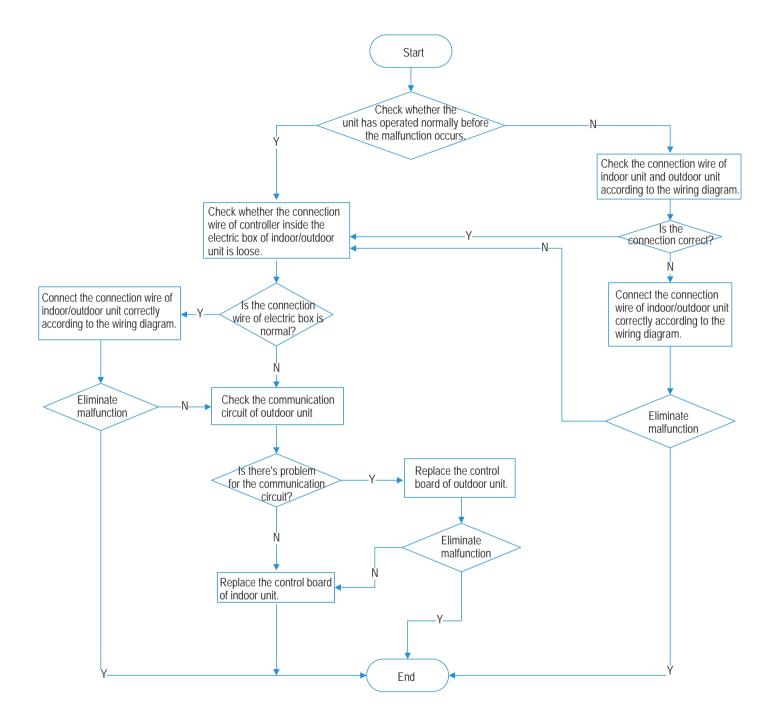
(1) jumper cap (2) control board of indoor unit



2. Communication malfunction &&

Main check points:

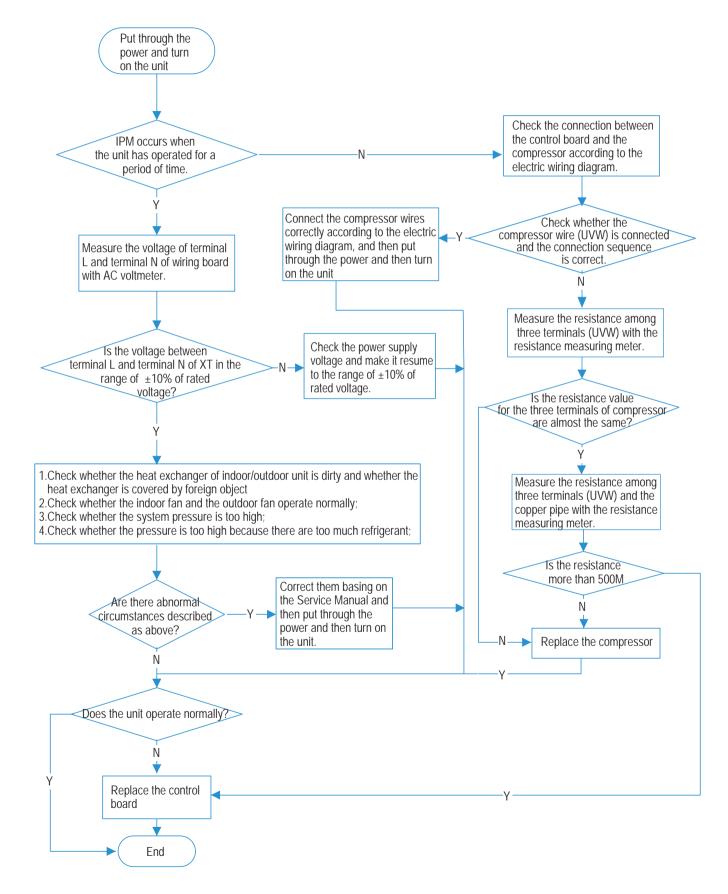
- (1) Connection wire between indoor unit and outdoor unit
- (2) Wiring inside the unit
- (3) Communication circuit of control board of indoor unit
- (4) Communication circuit of control board of outdoor unit



3. IPM protection №5, over-phase current of compressor ₽5

Main check points:

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



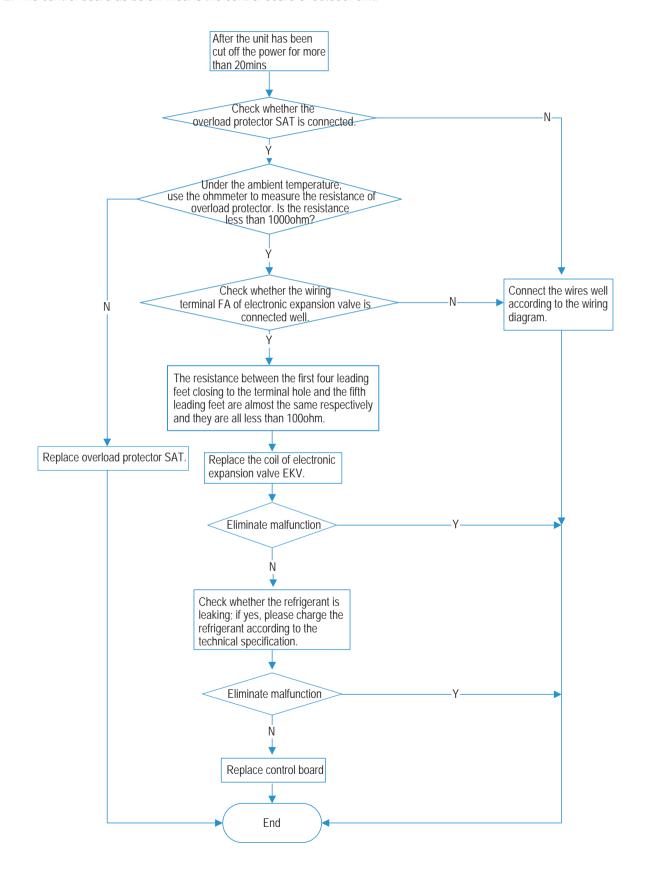
4. Overload protection of compressor ⊬3, high discharge temperature, protection of compressor ⊱4

Main check points:

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

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

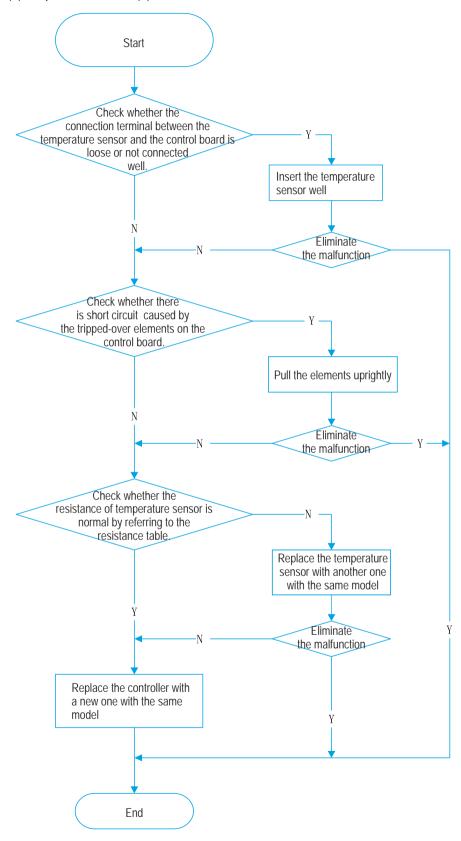
NOTE: The control board as below means the control board of outdoor unit.



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

Main check points:

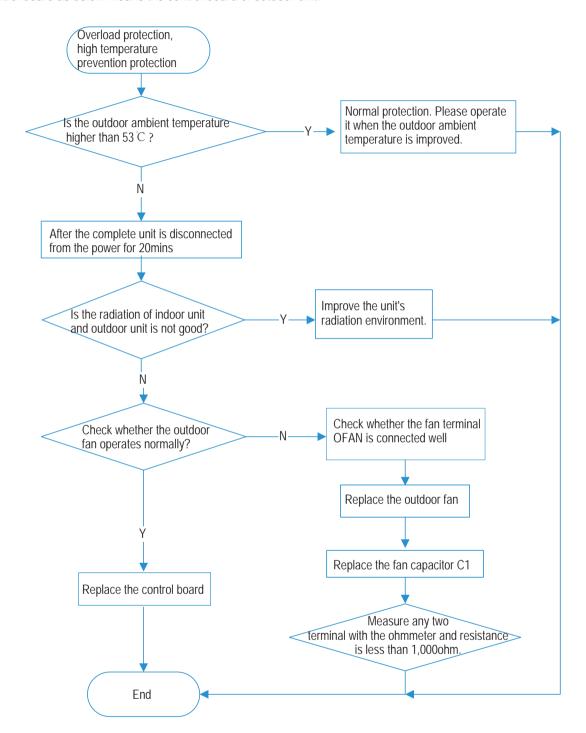
(1) connection terminal (2) temperature sensor (3) main board



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

Main check points:

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

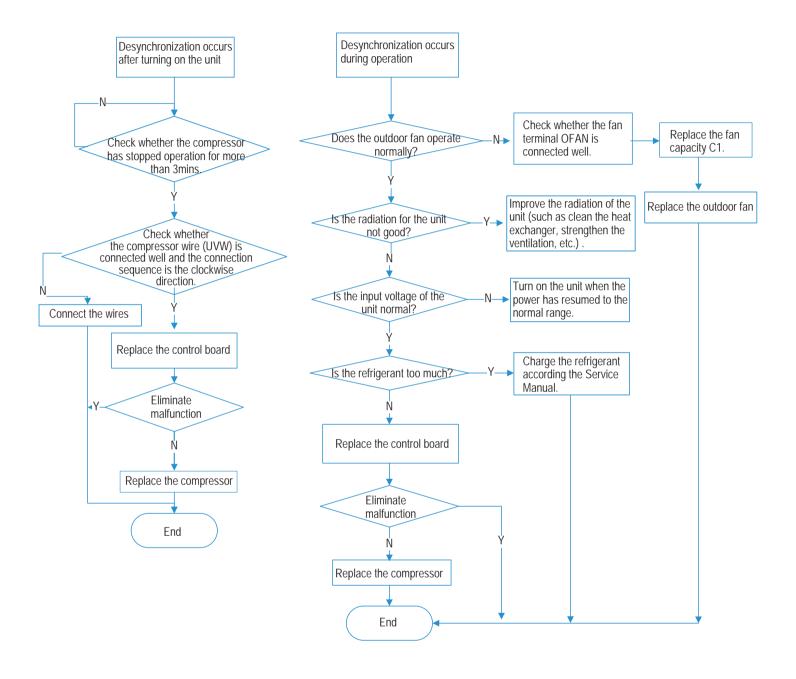


7. Desynchronization diagnosis for compressor #7

Main check point:

(1) system pressure (2) power supply voltage

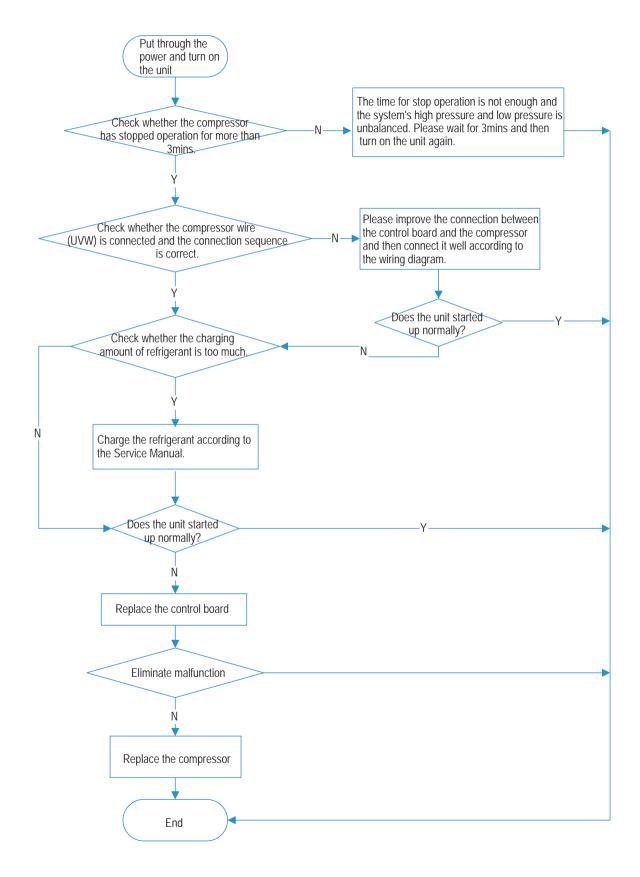
NOTE: The control board as below means the control board of outdoor unit.



8. Malfunction diagnosis for failure startup Lc

Main check points:

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

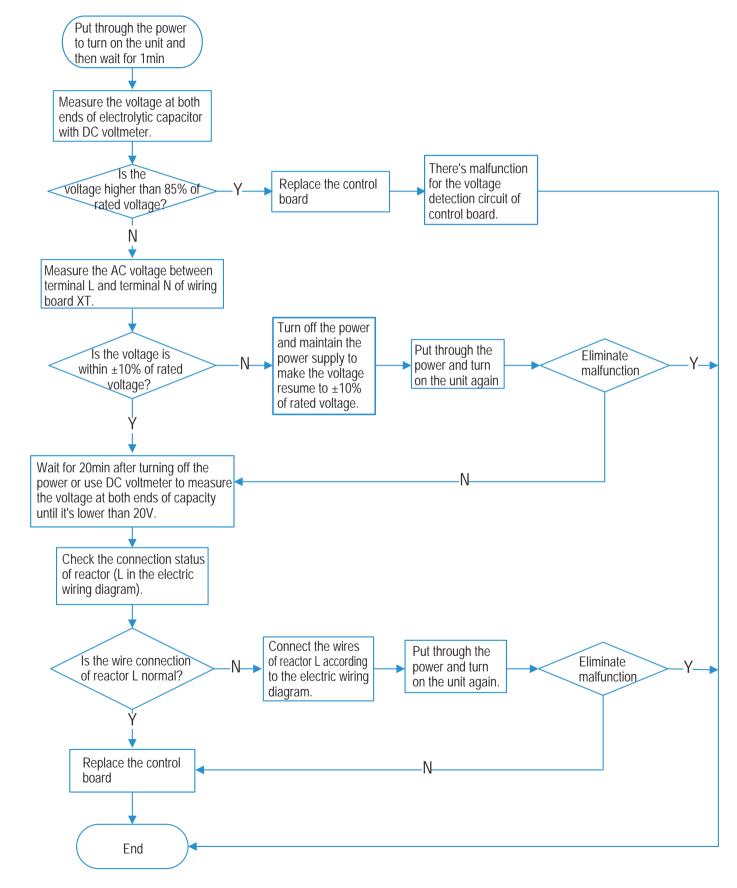


9. Charging malfunction of capacitor PU

Main check points:

(1) wiring board XT (2) reactor

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

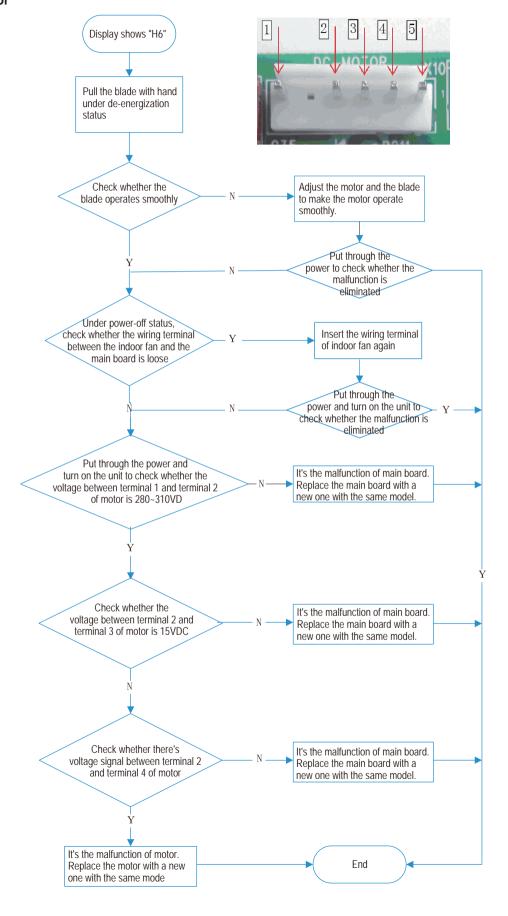


10. Troubleshooting-motor(indoor fan) doesn't operate #5

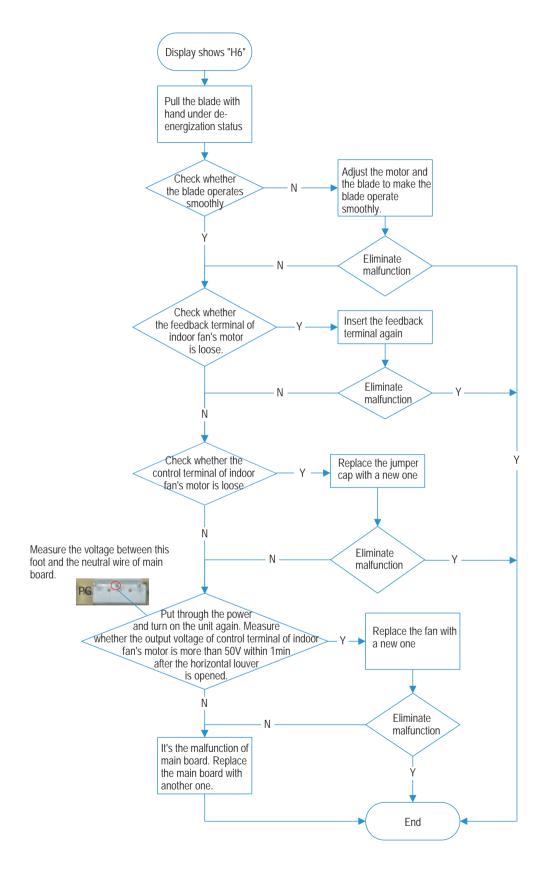
Main check points:

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

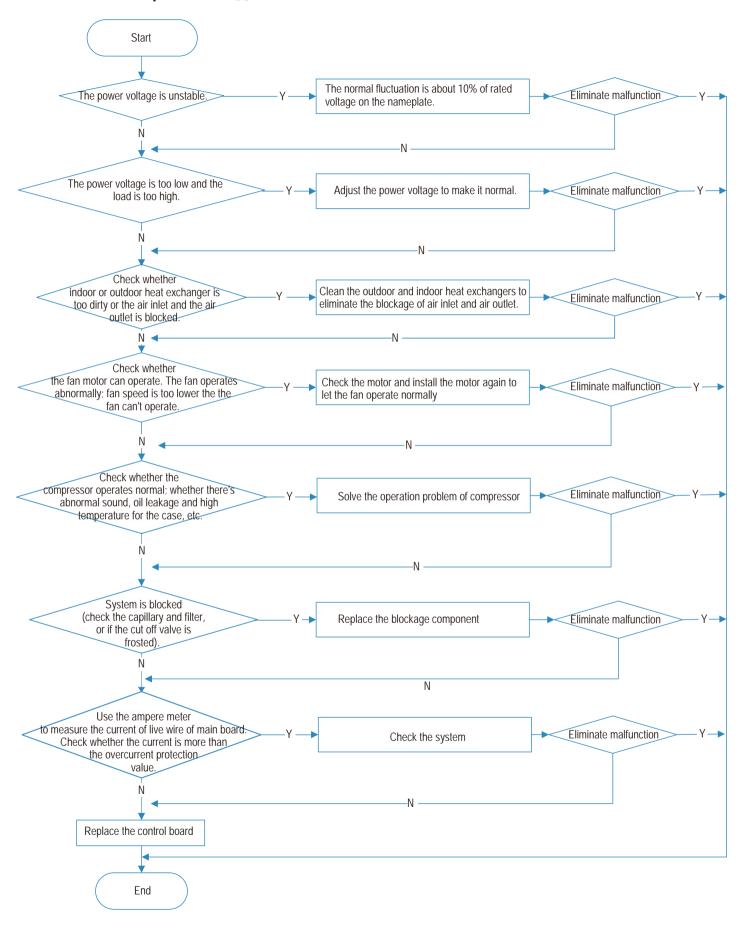
10.1 DC motor



10.2 PG motor



11. AC overcurrent protection §5



9.3 Troubleshooting for Normal Malfunction

1. Air Conditioner can't be Started Up

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

2. Poor Cooling (Heating) for Air Conditioner

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

3. Horizontal Louver can't Swing

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

4. ODU Fan Motor can't Operate

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

5. Compressor can't Operate

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

6. Air Conditioner is Leaking

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

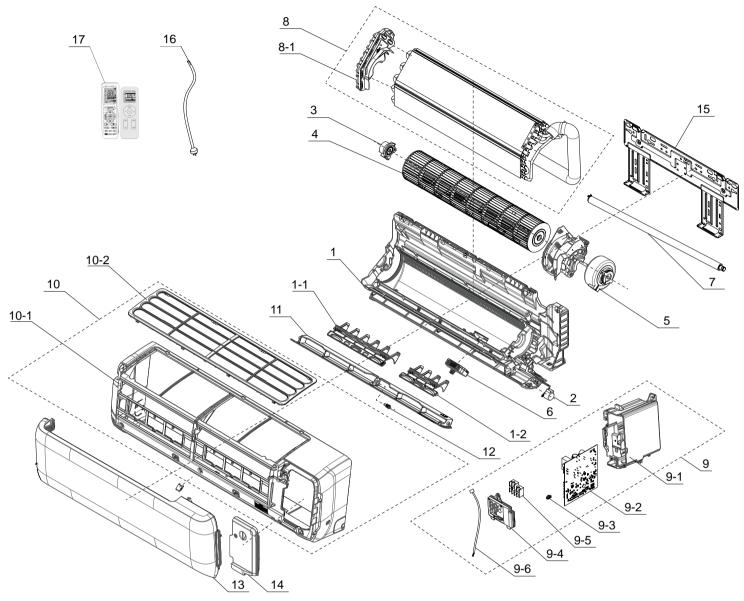
7. Abnormal Sound and Vibration

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

10. Exploded View and Parts List

10.1 Indoor Unit

ATA / ATB (Vertical Auto Swing Model)

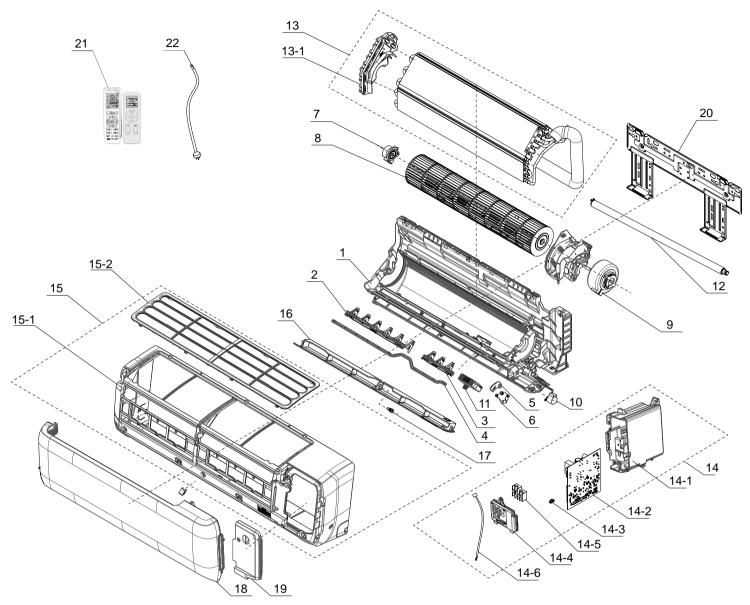


The component picture is only for reference; please refer to the actual product.

			•		
NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	8-1	Evaporator Support	10-2	Filter Sub-assy
1-1	Air Louver 1	9	Electric Box Assy	11	Guide Louver
1-2	Air Louver 2	9-1	Electric Box	12	Axile Bush
2	Stepping Motor	9-2	Main Board	13	Front Panel
3	Axile Bush Sub-assy	9-3	Jumper	14	Electric Box Cover
4	Cross Flow Fan	9-4	Display Board	15	Wall Mounting Frame
5	Fan Motor	9-5	Terminal Board	16	Power Cord
6	Plasmacluster Ion	9-6	Temperature Sensor	17	Remote Controller
7	Drainage Hose	10	Front Case Assy		
8	Evaporator Assy	10-1	Front Case		

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

ATA / ATB (4-Dimension Swing Model)

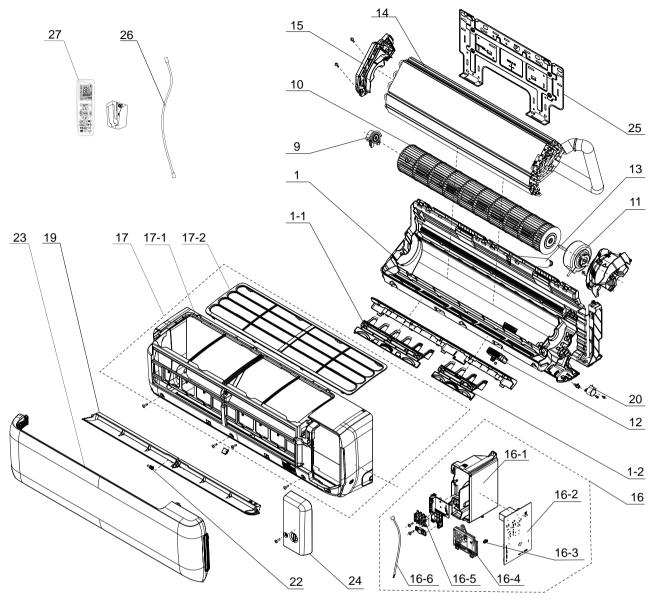


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	12	Drainage Hose	15-1	Front Case
2	Air Louver (left)	13	Evaporator Combination Assy	15-2	Filter Sub-assy
3	Air Louver(right)	13-1	Evaporator Support	16	Guide Louver
4	Swing Lever	14	Electric Box Assy	17	Axile Bush
5	Air Louver	14-1	Electric Box	18	Front Panel
6	Stepping Motor	14-2	Main Board	19	Electric Box Cover
7	Axile Bush Sub-assy	14-3	Jumper	20	Wall Mounting Frame
8	Cross Flow Fan	14-4	Display Board	21	Remote Controller
9	Fan Motor	14-5	Terminal Board	22	Power Cord
10	Stepping Motor	14-6	Temperature Sensor		
11	Plasmacluster Ion	15	Front Case Sub-assy		

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

ATC (Vertical Auto Swing Model)

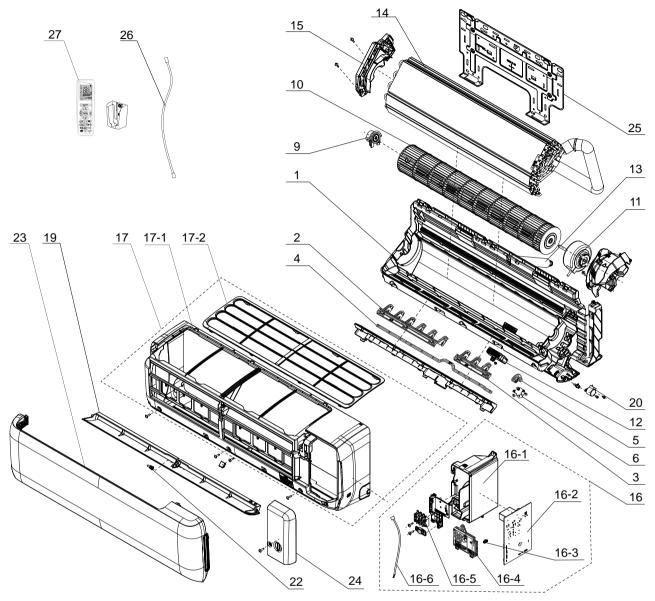


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	16	Electric Box Assy	19	Guide Louver
1-1	Air Louver (Left)	16-1	Electric Box	20	Stepping Motor
1-2	Air Louver (Right)	16-2	Main Board	22	Axile Bush
9	Axile Bush Sub-assy	16-3	Jumper	23	Front Panel
10	Cross Flow Fan	16-4	Display Board	24	Electric Box Cover
11	Fan Motor	16-5	Terminal Board	25	Wall Mounting Frame
12	Plasmacluster Ion	16-6	Temperature Sensor	26	Power Cord
13	Drainage Hose	17	Front Case Assy	27	Remote Controller
14	Evaporator Assy	17-1	Front Case		
15	Evaporator Support	17-2	Filter Sub-assy		

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

ATC (4-Dimension Swing Model)

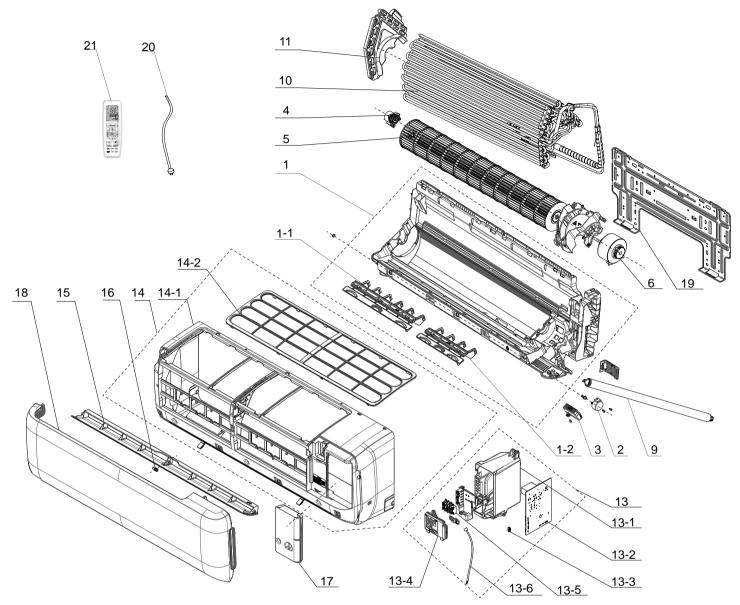


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	14	Evaporator Assy	17-2	Filter Sub-assy
2	Air Louver (Left)	15	Evaporator Support	19	Guide Louver
3	Air Louver (Right)	16	Electric Box Assy	20	Stepping Motor
4	Swing Lever	16-1	Electric Box	22	Axile Bush
5	Air Louver (Auto)	16-2	Main Board	23	Front Panel
6	Stepping Motor	16-3	Jumper	24	Electric Box Cover
9	Axile Bush Sub-assy	16-4	Display Board	25	Wall Mounting Frame
10	Cross Flow Fan	16-5	Terminal Board	26	Power Cord
11	Fan Motor	16-6	Temperature Sensor	27	Remote Controller
12	Plasmacluster Ion	17	Front Case Assy		
13	Drainage Hose	17-1	Front Case		

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

ATD (Vertical Auto Swing Model)

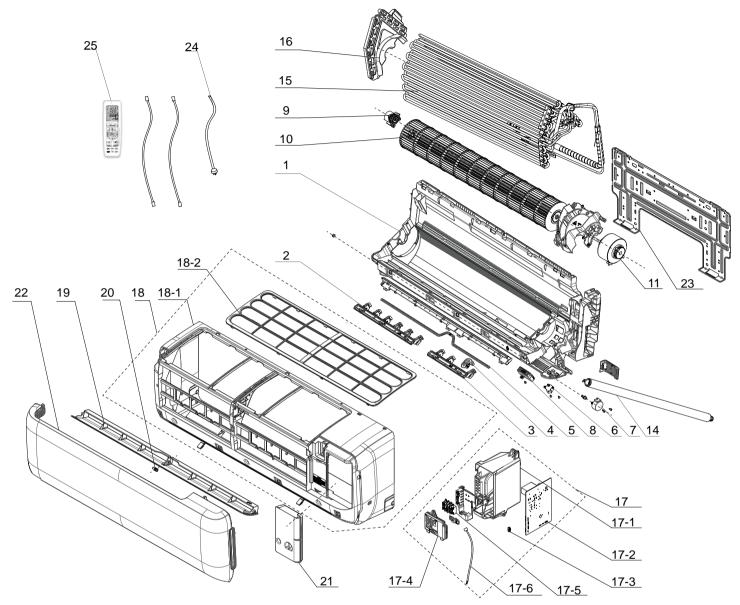


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	11	Evaporator Support	14-2	Filter Sub-assy
1-1	Air Louver (Left)	13	Electric Box Assy	15	Guide Louver
1-2	Air Louver (Right)	13-1	Electric Box	16	Axile Bush
2	Stepping Motor	13-2	Main Board	17	Electric Box Cover
3	Plasmacluster Ion	13-3	Jumper	18	Front Panel
4	Axile Bush Sub-assy	13-4	Display Board	19	Wall Mounting Frame
5	Cross Flow Fan	13-5	Terminal Board	20	Power Cord
6	Fan Motor	13-6	Temperature Sensor	21	Remote Controller
9	Drainage Hose	14	Front Case Assy		
10	Evaporator Assv	14-1	Front Case		

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

ATD (4-Dimension Swing Model)

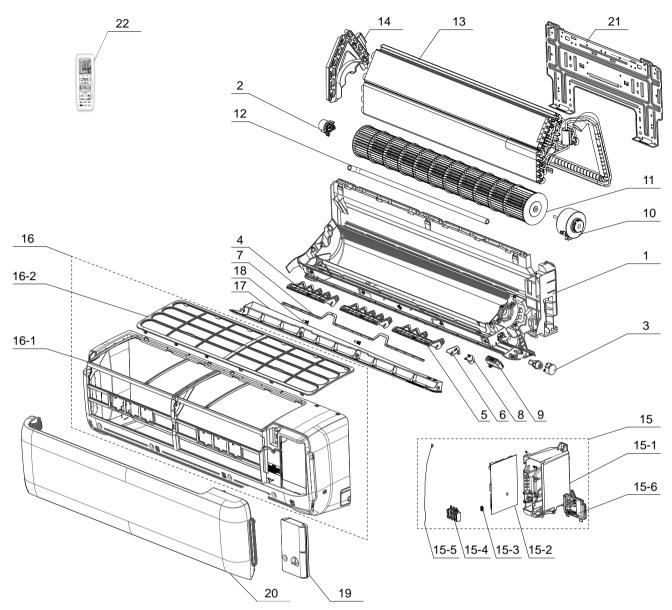


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	14	Drainage Hose	18-1	Front Case
2	Air Louver (Auto)	15	Evaporator Assy	18-2	Right Side Plate
3	Air Louver (Auto)	16	Evaporator Support	18-3	Left Side Plate
4	Air Louver (Auto)	17	Electric Box Assy	18-4	Filter Sub-assy
5	Swing Lever	17-1	Electric Box	19	Guide Louver
6	Stepping Motor	17-2	Main Board	20	Axile Bush
7	Stepping Motor	17-3	Jumper	21	Electric Box Cover
8	Plasmacluster Ion	17-4	Display Board	22	Front Panel
9	Axile Bush Sub-assy	17-5	Terminal Board	23	Wall Mounting Frame
10	Cross Flow Fan	17-6	Temperature Sensor	24	Power Cord
11	Fan Motor	18	Front Case Assy	25	Remote Controller

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

ATE (4-Dimension Swing Model)



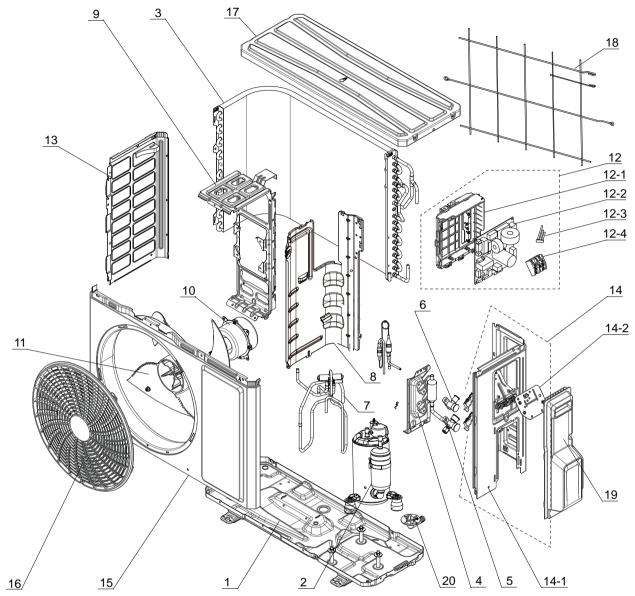
The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Rear Case Sub-assy	11	Cross Flow Fan	15-6	Display Board
2	Axile Bush Sub-assy	12	Drainage Hose	16	Front Case Sub-assy
3	Stepping Motor	13	Evaporator Assy	16-1	Front Case
4	Air Louver 1	14	Evaporator Support(D7)	16-2	Filter Sub-assy
5	Air Louver 1	15	Electric Box Assy	17	Guide Louver
6	Air Louver	15-1	Electric Box	18	Axile Bush
7	Swing Lever	15-2	Main Board	19	Electric Box Cover
8	Stepping Motor	15-3	Jumper	20	Front Pane
9	Plasma Bunch Ion	15-4	Terminal Board	21	Wall Mounting Frame
10	Brushless DC Motor	15-5	Temperature Sensor	22	Remote Controller

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

10.2 Outdoor Unit

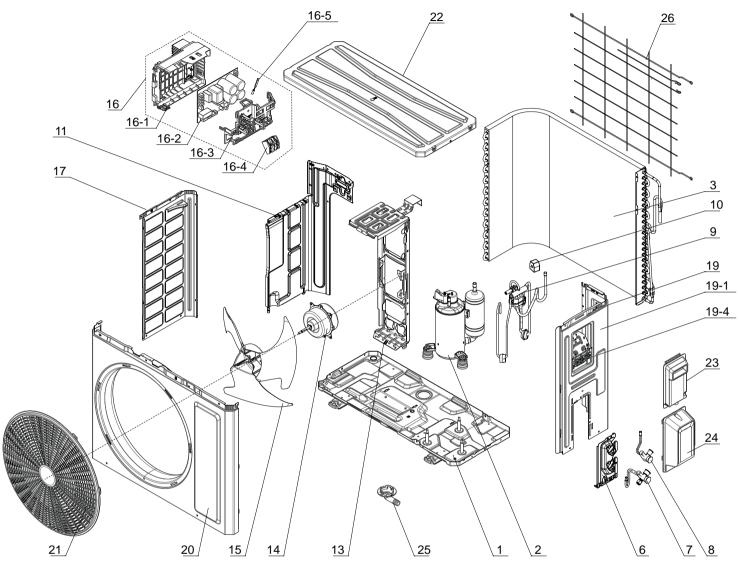
GWH07AGA-K6DNA1A/O



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

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	10	Fan Motor	14-1	Right Side Plate
2	Compressor and Fittings	11	Axial Flow Fan	14-2	Earthing Plate Sub-assy
3	Condenser Assy	12	Electric Box Assy	15	Cabinet
4	Valve Support	12-1	Electric Box	16	Front Grill
5	Cut-off valve	12-2	Main Board	17	Top Cover Sub-assy
6	Cut-off valve	12-3	Temperature Sensor	18	Rear Grill
7	4-Way Valve Assy	12-4	Terminal Board	19	Handle
8	Clapboard	13	Left Side Plate	20	Drainage Joint
9	Motor Support	14	Right Side Plate Sub-assy		

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

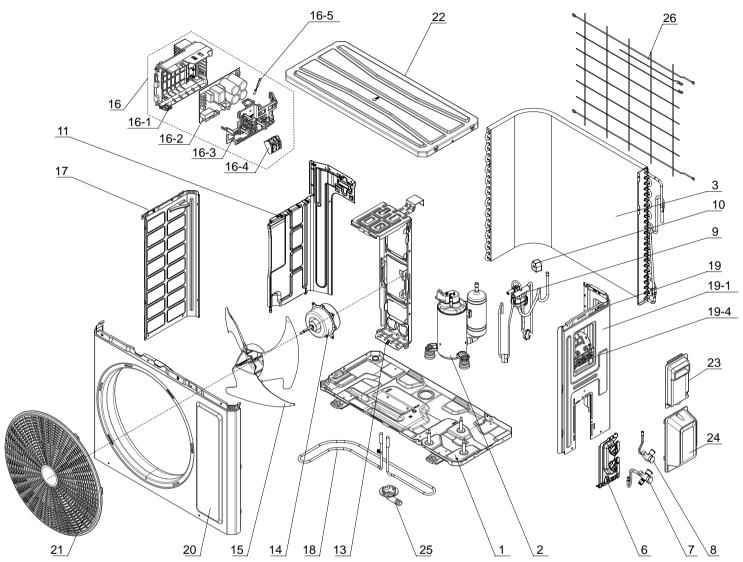


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	14	Motor	19-1	Right Side Plate
2	Compressor and Fittings	15	Axial Flow Fan	19-4	Wire Clamp
3	Condenser Assy	16	Electric Box Assy	20	Cabinet
6	Valve Support	16-1	Electric Box	21	Front Grill
7	Cut-off Valve (Big)	16-2	Main Board	22	Top Cover Assy
8	Cut-off Valve (Small)	16-3	Electric Box Cover	23	Handle (Right)
9	4-Way Valve Assy	16-4	Terminal Board	24	Valve Cover
10	Magnet Coil	16-5	Temperature Sensor	25	Drainage Joint
11	Clapboard	17	Left Side Plate	26	Rear Grill
13	Motor Support	19	Right Side Plate Assy		

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

GWH09ATCXB-K6DNA1B/O

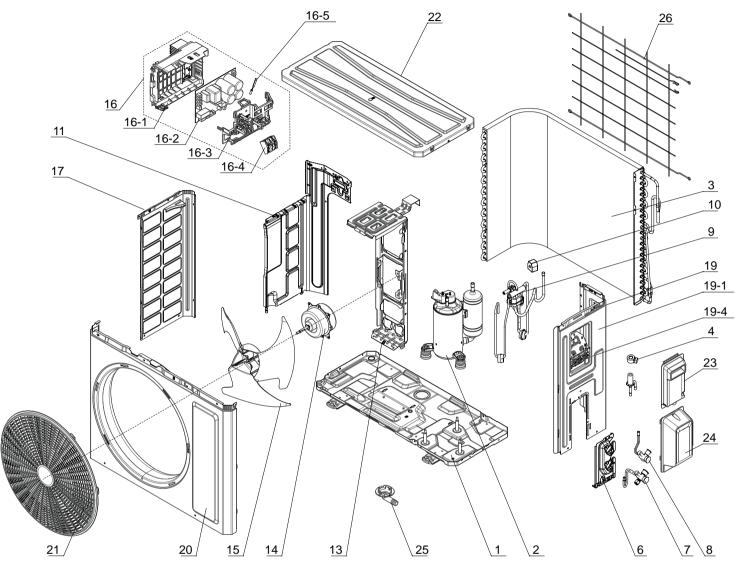


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	14	Motor	19	Right Side Plate Assy
2	Compressor and Fittings	15	Axial Flow Fan	19-1	Right Side Plate
3	Condenser Assy	16	Electric Box Assy	19-4	Wire Clamp
6	Valve Support	16-1	Electric Box	20	Cabinet
7	Cut-off Valve (Big)	16-2	Main Board	21	Front Grill
8	Cut-off Valve (Small)	16-3	Electric Box Cover	22	Top Cover Assy
9	4-Way Valve Assy	16-4	Terminal Board	23	Handle (Right)
10	Magnet Coil	16-5	Temperature Sensor	24	Valve Cover
11	Clapboard	17	Left Side Plate	25	Drainage Joint
13	Motor Support	18	Electric Heater	26	Rear Grill

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

GWH12ATCXB-K6DNA1A/O(CB574W00700/CB574W00701)

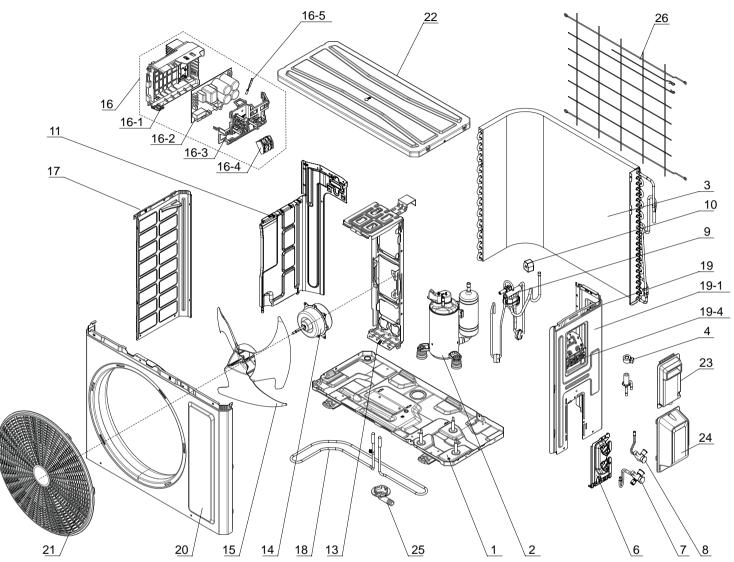


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	13	Motor Support	19	Right Side Plate Assy
2	Compressor and Fittings	14	Motor	19-1	Right Side Plate
3	Condenser Assy	15	Axial Flow Fan	19-4	Wire Clamp
4	Electric Expand Valve Fitting	16	Electric Box Assy	20	Cabinet
6	Valve Support	16-1	Electric Box	21	Front Grill
7	Cut-off Valve (Big)	16-2	Main Board	22	Top Cover Assy
8	Cut-off Valve (Small)	16-3	Electric Box Cover	23	Handle (Right)
9	4-Way Valve Assy	16-4	Terminal Board	24	Valve Cover
10	Magnet Coil	16-5	Temperature Sensor	25	Drainage Joint
11	Clapboard	17	Left Side Plate	26	Rear Grill

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

GWH12ATCXB-K6DNA1A/O(CB574W00702)

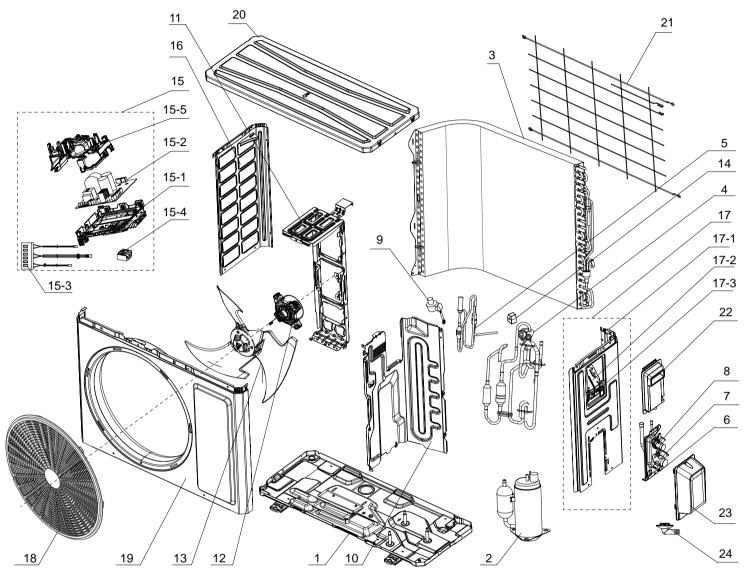


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	14	Motor	19-1	Right Side Plate
2	Compressor and Fittings	15	Axial Flow Fan	19-4	Wire Clamp
3	Condenser Assy	16	Electric Box Assy	20	Cabinet
4	Electric Expand Valve Fitting	16-1	Electric Box	21	Front Grill
6	Valve Support	16-2	Main Board	22	Top Cover Assy
7	Cut-off Valve (Big)	16-3	Electric Box Cover	23	Handle (Right)
8	Cut-off Valve (Small)	16-4	Terminal Board	24	Valve Cover
9	4-Way Valve Assy	16-5	Temperature Sensor	25	Drainage Joint
10	Magnet Coil	17	Left Side Plate	26	Rear Grill
11	Clapboard	18	Electric Heater		
13	Motor Support	19	Right Side Plate Assy		

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

GWH18ATDXD-K6DNA1A/O

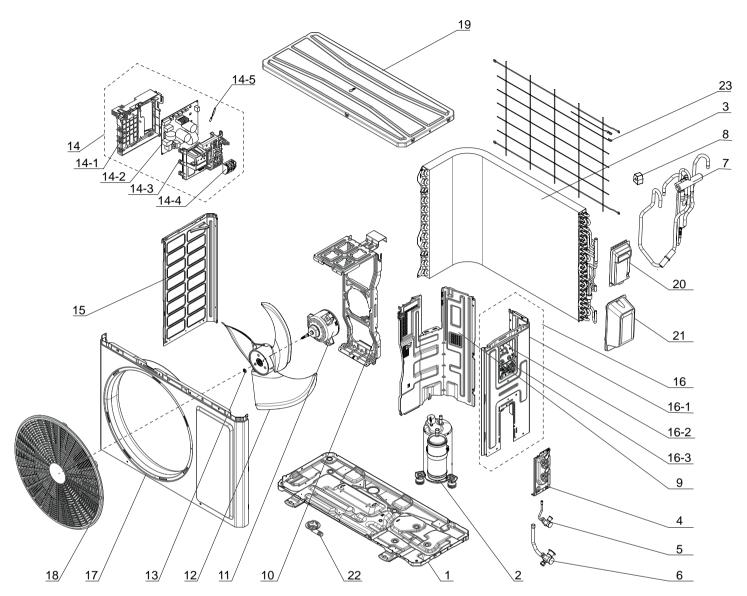


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	12	Fan Motor	17-1	Right Side Plate
2	Compressor and Fittings	13	Axial Flow Fan	17-2	Earthing Plate Sub-assy
3	Condenser Assy	14	Magnet Coil	17-3	Wire Clamp
4	4-Way Valve Assy	15	Electric Box Assy	18	Front Grill
5	Electric Expansion Valve Sub-assy	15-1	Electric Box	19	Cabinet
6	Valve Support	15-2	Main Board	20	Top Cover Assy
7	Cut-off Valve Big	15-3	Temperature Sensor	21	Rear Grill
8	Cut-off Valve Small	15-4	Terminal Board	22	Handle (Right)
9	Electric Expand Valve Fitting	15-5	Electric Box Cover	23	Valve Cover
10	Clapboard	16	Left Side Plate	24	Drainage Joint
11	Motor Support	17	Right Side Plate Assy		

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

GWH24ATDXE-K6DNA1A/O

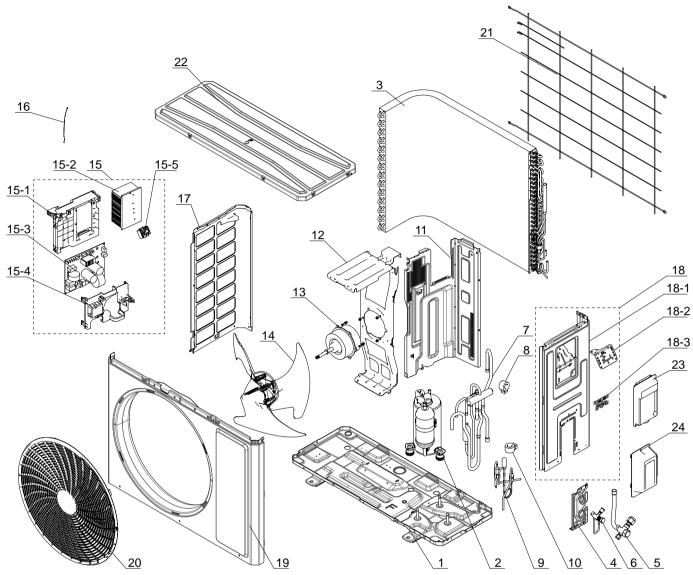


The component picture is only for reference; please refer to the actual product.

NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	12	Axial Flow Fan	16-2	Earthing Plate Sub-assy
2	Compressor and Fittings	13	Block Gasket	16-3	Wire Clamp
3	Condenser Assy	14	Electric Box Assy	17	Cabinet
4	Valve Support	14-1	Electric Controller Box	18	Front Grill
5	Cut-off Valve	14-2	Main Board	19	Top Cover Assy
6	Cut-off Valve	14-3	Controller Cover	20	Handle (Right)
7	4-Way Valve Assy	14-4	Terminal Board	21	Valve Cover
8	Magnet Coil	14-5	Temperature Sensor	22	Drainage Joint
9	Clapboard	15	Left Side Plate	23	Rear Grill
10	Motor Support	16	Right Side Plate Assy		
11	Fan Motor	16-1	Right Side Plate		

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

GWH24AFE-K6DNA2I/O



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

	·				
NO.	Description	NO.	Description	NO.	Description
1	Chassis Sub-assy	12	Motor Support	18	Right Side Plate Assy
2	Compressor and Fittings	13	Motor	18-1	Right Side Plate
3	Condenser Assy	14	Axial Flow Fan	18-2	Earthing Plate Sub-assy
4	Valve Support	15	Electric Box Assy	18-3	Wire Clamp
5	Cut-off Valve Big	15-1	Electric Box	19	Front Panel
6	Cut-off Valve Small	15-2	Radiator	20	Grill
7	4-Way Valve Assy	15-3	Main Board	21	Rear Grill
8	Magnet Coil	15-4	Electric Box Cover	22	Top Cover Assy
9	Electric Expansion Valve Sub-assy	15-5	Terminal Board	23	Handle
10	Electric Expand Valve Fitting	16	Temperature Sensor	24	Valve Cover
11	Clapboard	17	Left Side Plate		

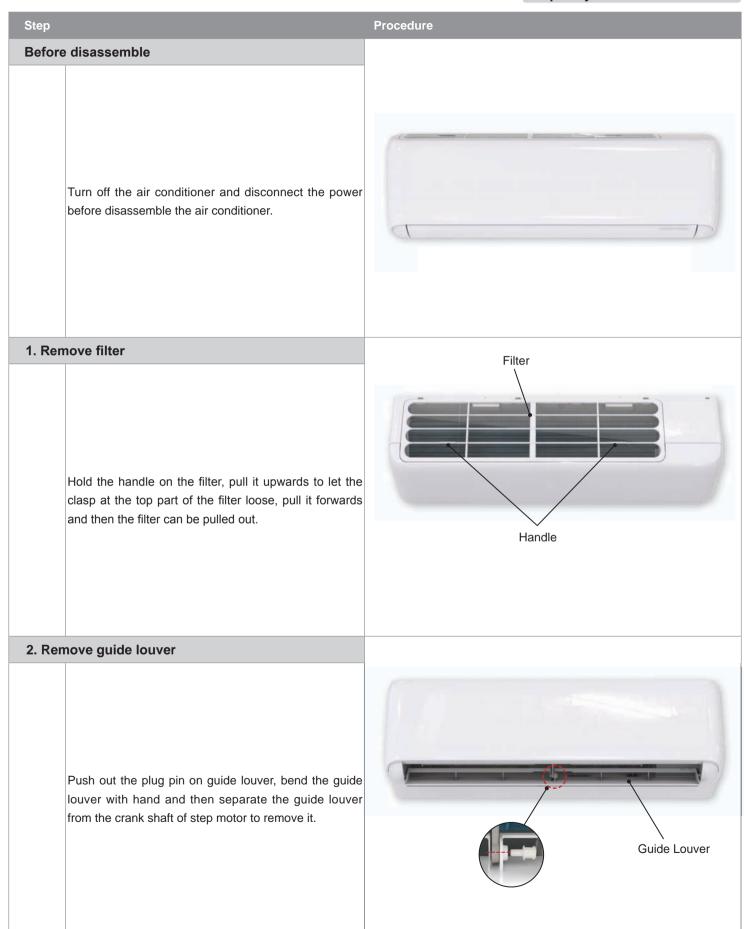
Some models may not contain some parts, please refer to the actual product.

11. Removal Procedure

11.1 Removal Procedure of Indoor Unit



Caution: discharge the refrigerant completely before removal.



Step

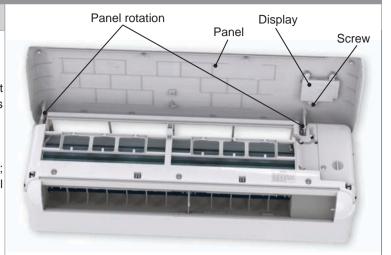
Procedure

3. Remove panel

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

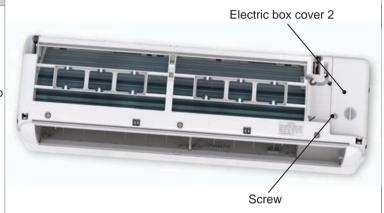
Note:

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



4. Remove electric box cover 2

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



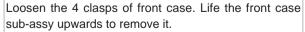
Screws

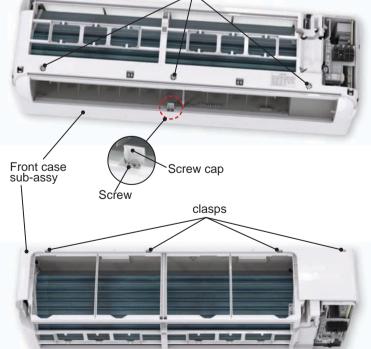
5. Remove front case sub-assy

Remove the screws fixing front case.

a Note:

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





b

Step Procedure 6. Remove electric box assy Screw Remove the screw fixing electric box assy. а Grounding Indoor tube screw temperature sensor Electric box assy Wiring terminal of motor Main board 1 Cut off the wire binder and pull out the indoor tube temperature sensor. Wiring terminal 2 Screw off one grounding screw. of cold plasma 3 Remove the wiring terminals of motor, cold plasma generator generator and stepping motor. b 4 Remove the electric box assy. Wiring terminal (5) Screw off the screws that are locking each. of stepping motor Screws Wire binder **ATA ATB ATC** Rotate the electric box assy. Twist off the screws that are locking the wire clip and loosen the power cord. Remove the wiring terminal of power cord. Lift up the main board and take it off. Wire clip Screw Power cord (NOTE: This step is only available to the unit which is indoor power supply.) ATD ATE С Instruction:Some wiring terminal of this products is with lock catch and other devices. The pulling method is as Holder below: Circlip. 1.Remove the soft sheath for some terminals at first, hold the circlip and then pull out the terminals, 2.Pull out the holder for some terminals at first(holder is not available for some wiring terminal).hold the

138 Installation and Maintenance

Soft sheath

Connector

connector and then pull the terminal.

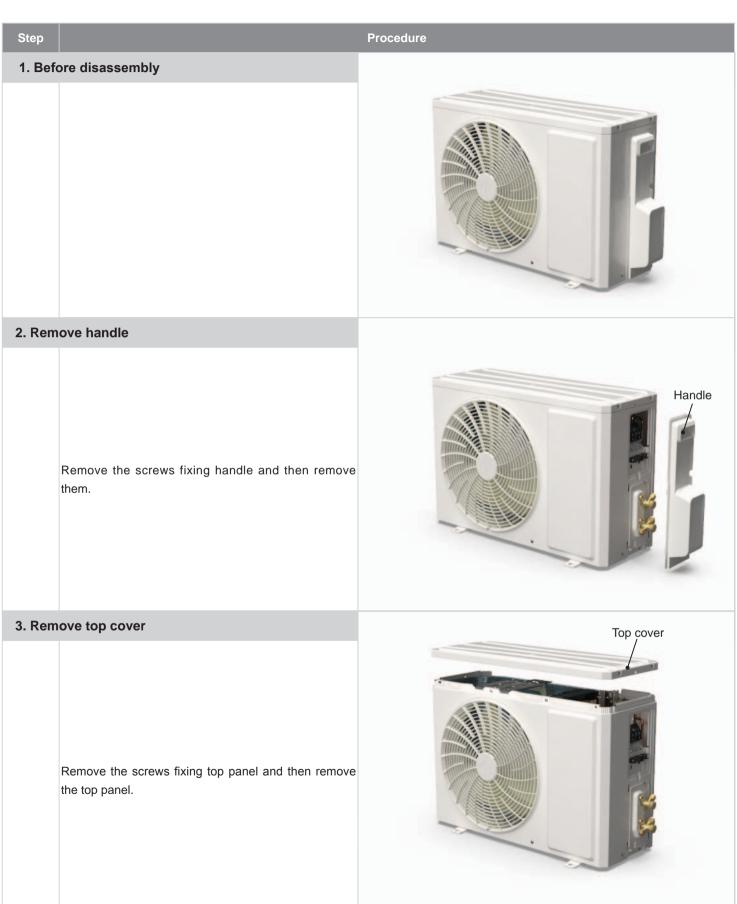
Procedure Step 7. Remove evaporator assy Remove 2 screws fixing evaporator assy. а Screws Connection pipe clamp At the back of the unit, Loosen the clasp of the b connection pipe clamp and then remove the connection pipe clamp. Clasp First remove the left side of evaporator from the groove С of bottom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

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

11.2 Removal Procedure of Outdoor Unit

Caution: discharge the refrigerant completely before removal.

07K



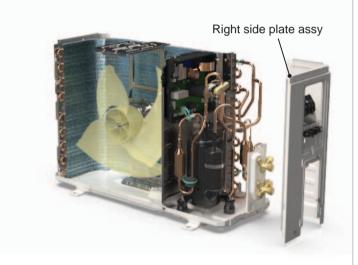
4. Remove front panel assy

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



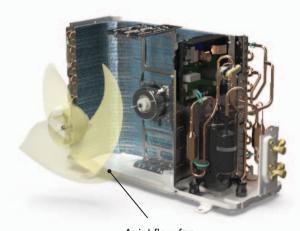
5. Remove right side plate assy

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



6. Remove axial flow fan

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

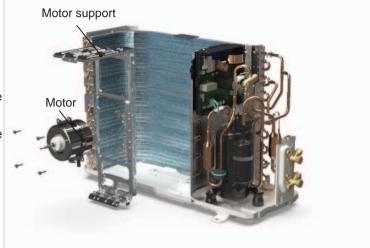


Axial flow fan

7. Remove motor support and motor

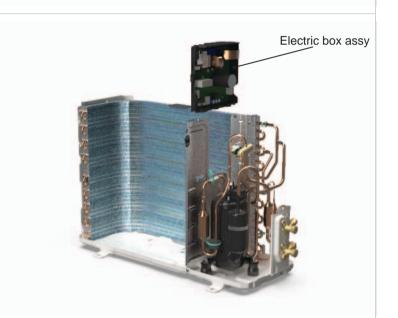
Remove the screws fixing the motor support and lift the motor support to remove it.

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



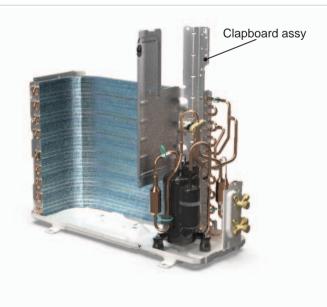
8. Remove electric box assy

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



9. Remove clapboard assy

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

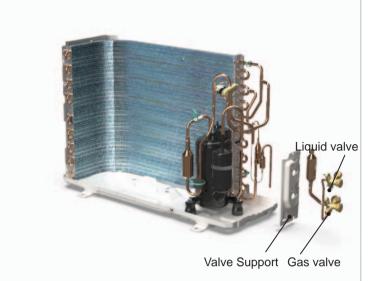


10. Remove gas valve and liquid valve

Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.

Note:

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



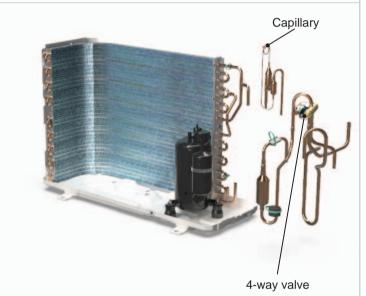
11. Remove 4-way valve and capillary

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

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

Note:

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



12. Remove compressor

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



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

4. Remove front panel assy

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



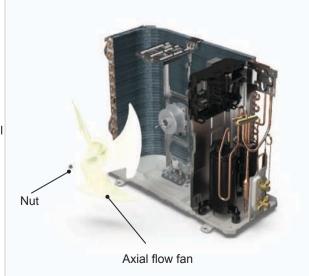
5. Remove right side plate assy

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



6. Remove axial flow fan

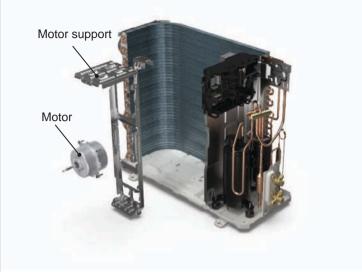
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

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

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



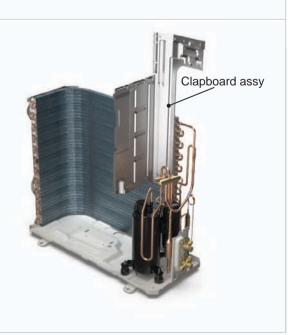
8. Remove electric box assy

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



9. Remove clapboard assy

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

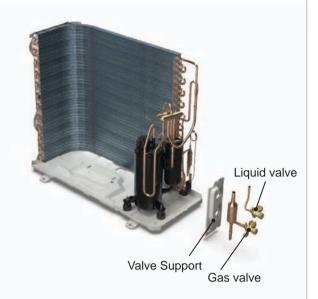


10. Remove gas valve and liquid valve

Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.

Note:

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



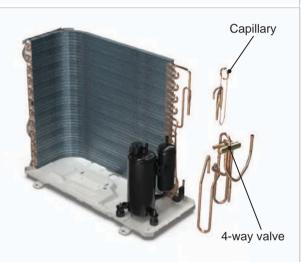
11. Remove 4-way valve and capillary

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

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

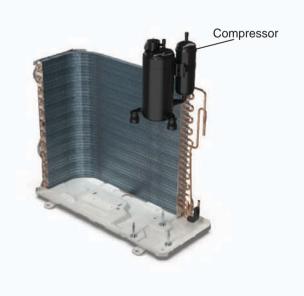
Note:

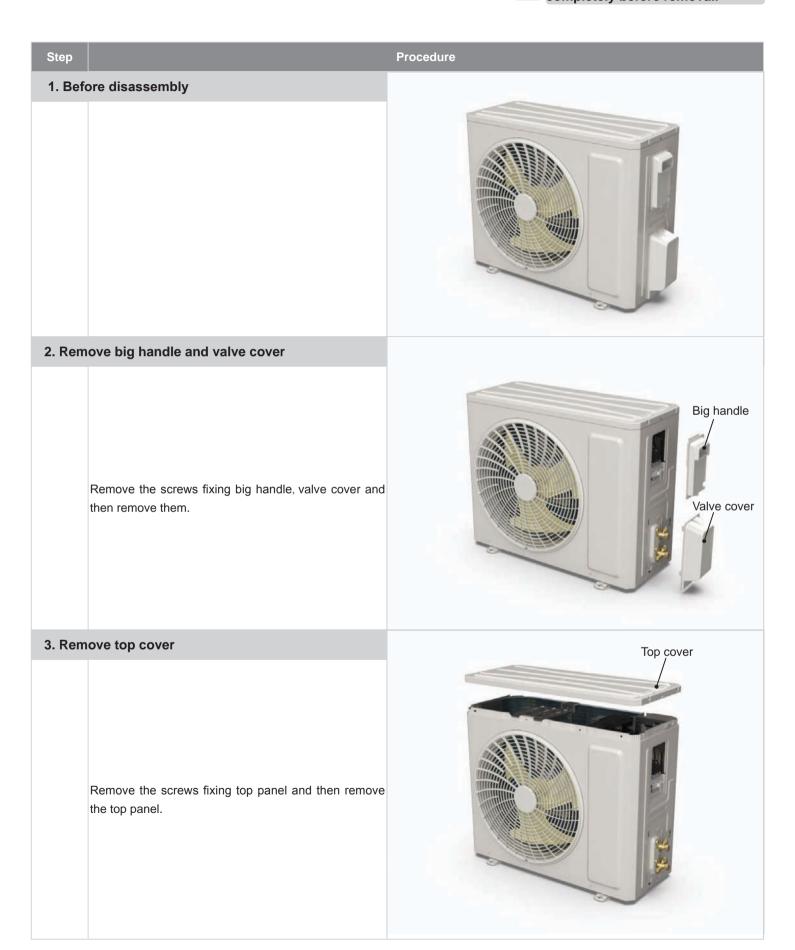
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.



12. Remove compressor

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





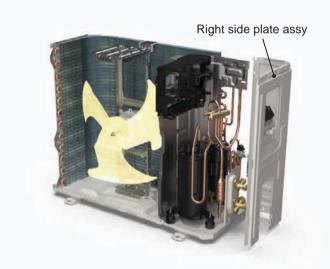
4. Remove front panel assy

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



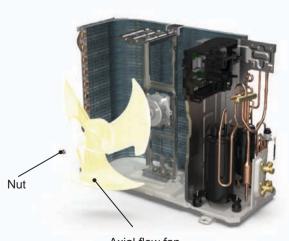
5. Remove right side plate assy

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



6. Remove axial flow fan

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

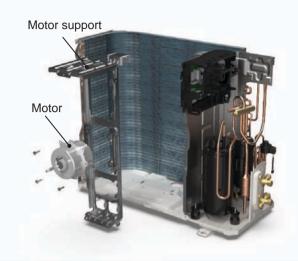


Axial flow fan

7. Remove motor support and motor

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

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



8. Remove electric box assy

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



9. Remove clapboard assy

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

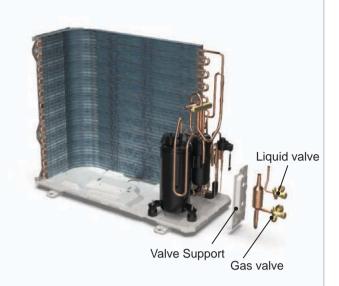


10. Remove gas valve and liquid valve

Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.

Note:

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



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

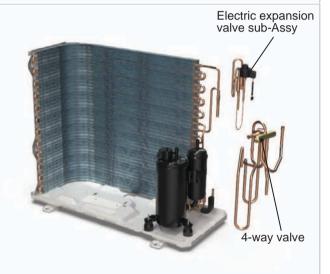
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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

Note:

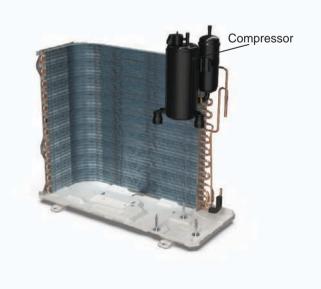
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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



12. Remove compressor

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





4. Remove front panel assy

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



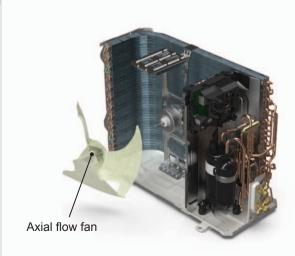
5. Remove right side plate assy

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



6. Remove axial flow fan

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



7. Remove electric box assy

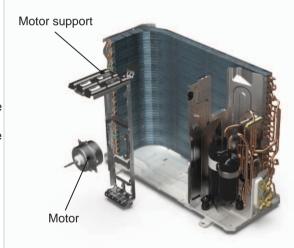
Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.



8. Remove motor and motor support

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

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



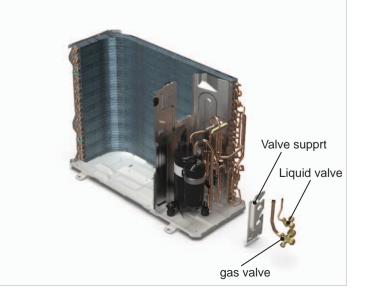
9. Remove gas valve, liquid valve and valve suppprt

Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.

Note:

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

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

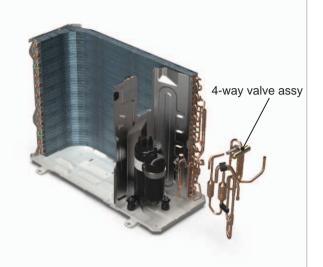


10. Remove 4-way valve assy

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

Note:

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

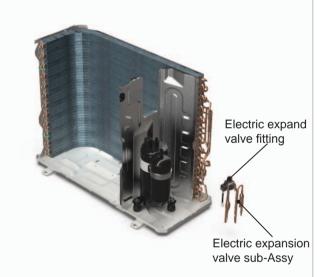


11. Remove electric expansion valve sub-Assy

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

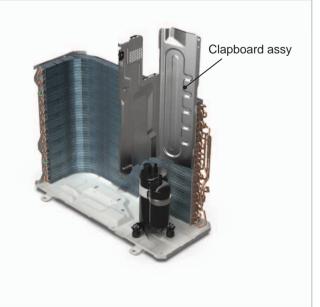
Note:

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



12. Remove clapboard assy

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



Step		Procedure	
13. Remove	ve compressor		Compressor
Remo	nove the 3 foot nuts on the compressor and then ove the compressor.		

NOTE: The front grill appearance is for reference only.

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

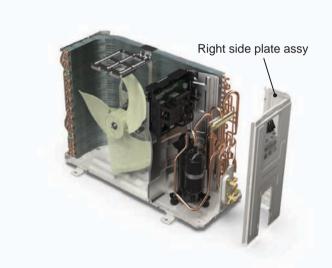
4. Remove front panel assy

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



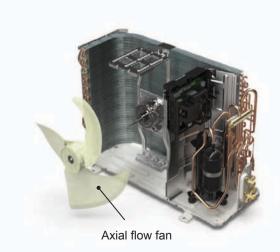
5. Remove right side plate assy

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



6. Remove axial flow fan

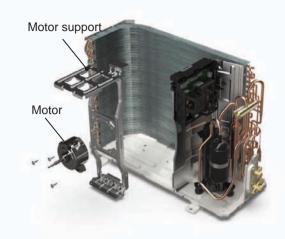
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

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

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



8. Remove electric box assy

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



9. Remove clapboard assy

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

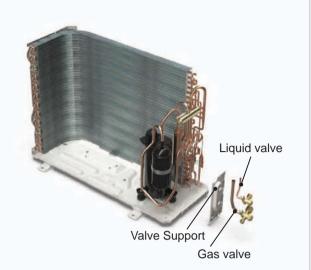


10. Remove gas valve and liquid valve

Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.

Note:

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



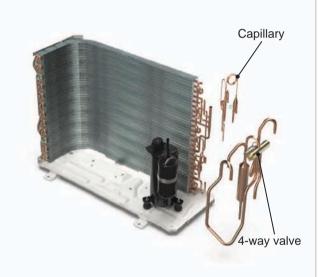
11. Remove 4-way valve and capillary

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

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

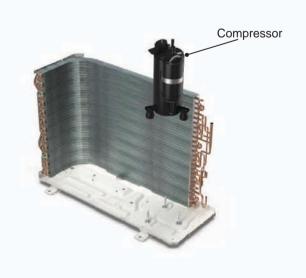
Note:

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



12. Remove compressor

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





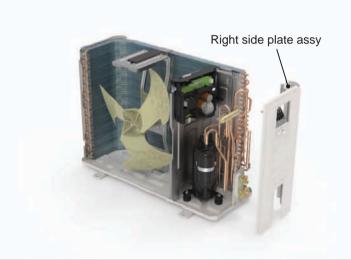
4. Remove front panel assy

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



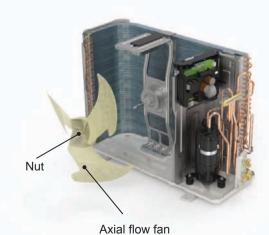
5. Remove right side plate assy

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



6. Remove axial flow fan

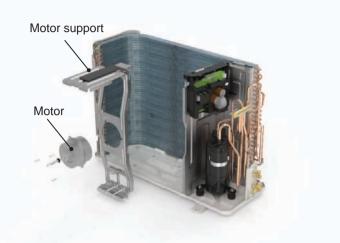
Remove the nut on the fan and then remove the axial flow fan.



7. Remove motor support and motor

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

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



8. Remove electric box assy

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



9. Remove clapboard assy

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

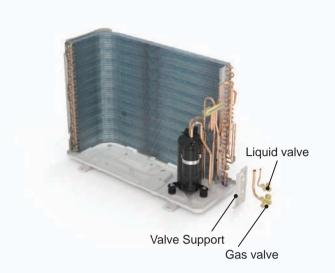


10. Remove gas valve and liquid valve

Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve, unsolder the welding joint connecting the gas valve and the liquid valve, remove them.

Note:

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



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

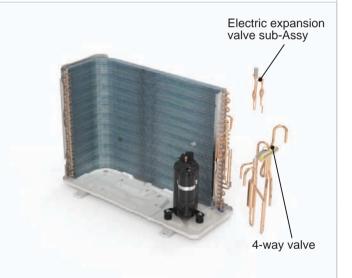
Unsolder the welding joints connecting the 4-way valve assy, remove the 4-way valve.

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

Note:

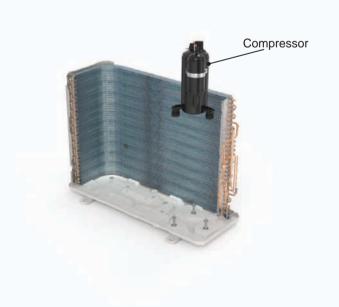
Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature.

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



12. Remove compressor

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



Appendix:

Appendix 1: Reference Sheet of Celsius and Fahrenheit

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

Set temperature

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

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

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

Ambient temperature

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

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

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

Appendix 2: Configuration of Connection Pipe

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

	Additional refrigerant charging amount for R32				
Pipin	Piping size		Outdoor unit throttle		
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only(g/m)	Cooling and heating(g/m)	
1/4"	3/8" or 1/2"	14	12	16	
1/4" or 3/8"	5/8" or 3/4"	40	12	40	
1/2"	3/4" or 7/8"	80	24	96	
5/8"	1" or 1 1/4"	136	48	96	
3/4"	/	200	200	200	
7/8"	/	280	280	280	

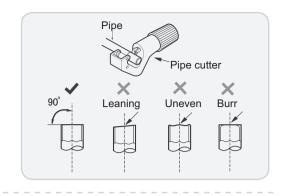
Appendix 3: Pipe Expanding Method

⚠ Note:

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

A:Cut the pip

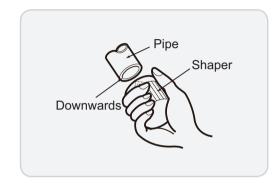
- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.



B:Remove the burrs

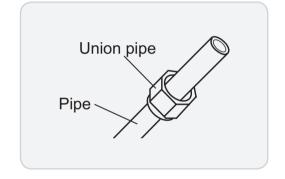
• Remove the burrs with shaper and prevent the burrs from getting into the pipe.

C:Put on suitable insulating pipe.



D:Put on the union nut

• Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



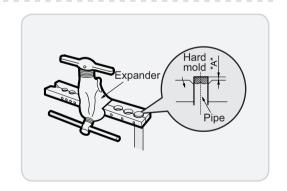
E:Expand the port

• Expand the port with expander.

⚠ Note:

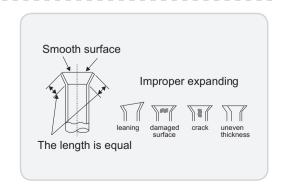
• "A" is different according to the diameter, please refer to the sheet below:

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



F:Inspection

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



Appendix 4: List of Resistance for Temperature Sensor

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

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

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

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

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

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

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

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

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

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

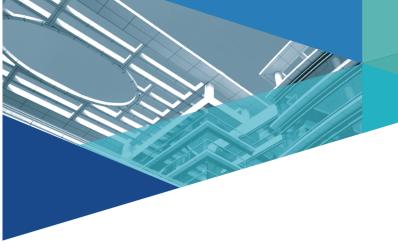
Resistance Table of Discharge Temperature Sensor for Outdoor(50K)

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

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

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

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



JF00305141



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070

Tel: (+86-756) 8522219 Fax: (+86-756) 8669426 E-mail: global@cn.gree.com

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