



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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1. Summary

Indoor Unit:

A1 panel



A3 Panel:



A5 Panel:

© GIVEE	

Outdoor Unit:

GWH07AGA-K6DNA1A/O GWH07AGA-K6DNA1C/O GWH09AGA-K6DNA1C/O



A2 panel



A4 Panel:



A6 Panel:



GWH12AGB-K6DNA1B/O



GWH12AGBXB-K6DNA4C/O GWH18ALD-K6DNA1A/O



GWH24QDXE-K6DNB6A/O



Remote Controller:

YAP1F2(WiFi)



YAA1FB6(WiFi)



YAY1F



YAW1F10



Model list:

No	Model	Product code	Indoor model	Indoor product	Outdoor model	Outdoor	Remote
				code		product code	Controller
1	GWH07AAA-K6DNA3B	CB478001900	GWH07AAA-K6DNA3B/I	CB478N01900	GWH07AGA-K6DNA1A/O	CB385W01100	YAP1F2 (WiFi)
2	GWH07AAA-K6DNA3C	CB478002001	GWH07AAA-K6DNA3C/I	CB478N02001			
3	GWH07AAA-K6DNA4C	CB479004900	GWH07AAA-K6DNA4C/I	CB479N04900			
4	GWH07AAA-K6DNA5C	CB488004100	GWH07AAA-K6DNA5C/I	CB488N04100			
5		CB399002500		CB399N02500		0000514/05000	
6	GWHU/AAA-K6DNA6C	CB399002501	GWHU7AAA-K6DINA6C/I	CB399N02501	GWHU/AGA-K6DINATC/O	CB382002900	
7	GWH07AAA-K6DNA5C	CB488004101	GWH07AAA-K6DNA5C/I	CB488N04101			
8	GWH07AAAXA-K6DNA2C	CB477004500	GWH07AAAXA-K6DNA2C/I	CB477N04500			
9	GWH07AAAXA-K6DNA2C	CB477004501	GWH07AAAXA-K6DNA2C/I	CB477N04501			
10	GWH09AAA-K6DNA5C	CB488004300	GWH09AAA-K6DNA5C/I	CB488N04300			YAA1FB6
11	GWH09AAA-K6DNA3C	CB478002400	GWH09AAA-K6DNA3C/I	CB478N02400		CB385W05100	(WiFi)
12	GWH09AAA-K6DNA6C	CB399003500	GWH09AAA-K6DNA6C/I	CB399N03500			
13	GWH09AAAXA-K6DNA2C	CB477004600	GWH09AAAXA-K6DNA2C/I	CB477N04600	GWH09AGA-K6DNA1C/O		
14	GWH09AAA-K6DNA2C	CB477004800	GWH09AAA-K6DNA2C/I	CB477N04800			
15	GWH09AAA-K6DNA1C	CB476008800	GWH09AAA-K6DNA1C/I	CB476N08800			
16	GWH09AAAXA-K6DNA5C	CB488004600	GWH09AAAXA-K6DNA5C/I	CB488N04600			
17	GWH12AAB-K6DNA5C	CB488004001	GWH12AAB-K6DNA5C/I	CB488N04001			
18	GWH12AAB-K6DNA3C	CB478002300	GWH12AAB-K6DNA3C/I	CB478N02300	GWH12AGB-K6DNA1B/O	CB385W04800	
19	GWH12AAB-K6DNA1C	CB476008900	GWH12AAB-K6DNA1C/I	CB476N08900			
20	GWH12AABXB-K6DNA2C	CB477004900	GWH12AABXB-K6DNA2C/I	CB477N04900			
21	GWH12AABXB-K6DNA2C	CB477004901	GWH12AABXB-K6DNA2C/I	CB477N04901		005501000000	
22	GWH12AABXB-K6DNA6C	CB399003700	GWH12AABXB-K6DNA6C/I	CB399N03700	GWHIZAGBAB-R0DNA4C/O	CB356W02000	TATIF
23	GWH12AABXB-K6DNA5C	CB488004800	GWH12AABXB-K6DNA5C/I	CB488N04800			
24	GWH18AAD-K6DNA6E	CB399003101	GWH18AAD-K6DNA6E/I	CB399N03101	GWH18ALD-K6DNA1A/O	CB513W01600	YAP1F2 (WiFi)
25	GWH24AADXE-K6DNA6A	CB399003600	GWH24AADXE-K6DNA6A/I	CB399N03600			
26	GWH24AADXE-K6DNA2A	CB477004700	GWH24AADXE-K6DNA2A/I	CB477N04700		CR435W/15700	
27	GWH24AADXE-K6DNA2A	CB477004701	GWH24AADXE-K6DNA2A/I	CB477N04701	GWI 124QDAE-RODINBOA/O	CB4330013700	
28	GWH24AADXE-K6DNA5A	CB488004700	GWH24AADXE-K6DNA5A/I	CB488N04700			

2.1 Specification Sheet

Model			1.GWH07AAA-K6DNA3C 2.GWH07AAA-K6DNA4C 3.GWH07AAA-K6DNA5C 4.GWH07AAA-K6DNA6C 5.GWH07AAAXA-K6DNA2C	GWH07AAA-K6DNA3B
Product Code	3		1.CB478002001 2.CB479004900 3.CB488004100/CB488004101 4.CB399002500/CB399002501 5.CB477004500/CB477004501	CB478001900
Power	Rated Voltage	V~	220-240	220-240
Supply	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply	y Mode		Outdoor	Outdoor
Cooling Capa	acity	W	2350	2200
Heating Capa	acity	W	2500	2400
Cooling Powe	er Input	W	681	590
Heating Powe	er Input	W	649	590
Cooling Curre	ent Input	A	3.3	2.9
Heating Curr	ent Input	A	3.5	2.9
Rated Input		W	1230	1300
Rated Coolin	g Current	A	6	5
Rated Heatin	g Current	A	7	6
Air Flow Volu	me	m³/h	520/470/420/250	520/470/420/250
Dehumidifyin	g Volume	L/h	0.60	0.6
EER		W/W	3.45	3.73
COP		W/W	3.85	4.07
SEER		W/W	1	6.6
HSPF		W/W	1	1
Application A	rea	m²	10-16	10-16
	Model		1.GWH07AAA-K6DNA3C/I 2.GWH07AAA-K6DNA4C/I 3.GWH07AAA-K6DNA5C/I 4.GWH07AAA-K6DNA6C/I	GWH07AAA-K6DNA3B/I
	Product Code		5.GWH07AAAXA-K6DNA2C/1 1.CB478N02001 2.CB479N04900 3.CB488N04100/CB488N04101 4.CB399N02500/CB399N02501 5.CB477N04500/CB477N04501	CB478N01900
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф93X505	Ф93X505
	Cooling Speed	r/min	1300/1200/1100/750	1300/1200/1050/750
	Heating Speed	r/min	1200/1100/1000/800	1300/1200/1050/800
	Fan Motor Power Output	W	20	10
	Fan Motor RLA	A	0.22	0.15
	Fan Motor Capacitor	μF	1	1
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5	Φ5
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	509X22.8X266.7	509×22.8×266.7
	Swing Motor Model		MP24AN	MP24AN
	Swing Motor Power Output	W	1.5	1.5
	Fuse Current	Α	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:40/38/33/24 Heating:36/35/32/24	Cooling:39/36/33/22 Heating:38/36/32/25
	Sound Power Level	dB (A)	Cooling:50/48/43/34 Heating:46/45/42/34	Cooling:55/49/45/34 Heating:55/49/45/38
	Dimension (WXHXD)	mm	698X250X185	698X250X185
	Dimension of Carton Box (I XW/XH)	mm	742X306X244	742X306X244
	Dimension of Package (LXWXH)	mm	745X322X255	745X322X255
	Net Weight	ka	7 4	7.5
	Gross Weight	ka	2 A A	85
	Cross Weight	n.y	0.0	0.0

	Outdoor Unit Model		GWH07AGA-K6DNA1C/O	GWH07AGA-K6DNA1A/O
	Outdoor Unit Product Code		CB385W05900	CB385W01100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXF-N075zC170	QXF-N075zC170
	Compressor Oil		FW68DA or equivalent	FW68DA
	Compressor Type		Rotary	Rotary
	Compressor LRA.	Α	/	1
	Compressor RLA	А	3	3
	Compressor Power Input	W	633	633
	Compressor Overload Protector		/	/
	Throttling Method		Capillary	Capillary
	Set Temperature Range	°C	16~30	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24	-15~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pine Diameter	mm	Φ7	Φ7 94
	Condenser Rows-fin Gap	mm	1-1 2	1-1 2
	Condenser Coil Length (LXDXW)	mm	635¥10.05¥418	637¥12 7¥/10
	Ean Motor Spood	rom	040+20	057 (12.7) (13
	Fail Motor Dever Output		340±20	30
Outdoor		VV 	0.20	0.25
Unit		А Г	0.30	0.35
		μ Γ	1.5	1
		m°/h	1400	1400
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Ф350	Ф350
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		<u> </u>	I
	Moisture Protection		IPX4	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-	50
	Sound Power Level (H/M/L)	dB (A)	61/-/-	60
	Dimension(WXHXD)	mm	710X450X293	710X450X293
	Dimension of Carton Box (LXWXH)	mm	761X327X500	761X327X500
	Dimension of Package(LXWXH)	mm	764X330X525	764X330X525
	Net Weight	kg	20.8	21
	Gross Weight	kg	22.8	23
	Refrigerant		R32	R32
	Refrigerant Charge	kg	0.45	0.4
	Connection Pipe Length	m	5	5
	Connection Pipe Gas Additional Charge	g/m	16	16
	Outer Diameter Liquid Pipe	inch	1/4	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8	3/8
Ріре	Max Distance Height	m	10	10
	Max Distance Length	m	15	15
	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.GWH09AAA-K6DNA1C 2.GWH09AAAXA-K6DNA2C 3.GWH09AAA-K6DNA5C 4.GWH09AAA-K6DNA3C 5.GWH09AAA-K6DNA6C 6.GWH09AAA-K6DNA2C 7.GWH09AAAXA-K6DNA5C
Product Code			1.CB476008800 2.CB477004600 3.CB488004300 4.CB478002400 5.CB399003500 6.CB477004800 7.CB488004600
	Rated Voltage	٧~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Suppl	y Mode		Outdoor
Cooling Capa	acity	W	2650
Heating Capa	acity	W	2852
Cooling Powe	er Input	W	780
Heating Pow	er Input	W	781
Cooling Curre	ent Input	А	3.8
Heating Curr	ent Input	А	3.9
Rated Input	-	W	1320
Rated Coolin	g Current	А	6.5
Rated Heatin	g Current	А	7
Air Flow Volu	me	m³/h	520/470/420/250
Dehumidifyin	g Volume	L/h	0.80
EER		W/W	3.40
COP		W/W	3.65
SEER		W/W	1
Application Area		m²	12-18
	Model		1.GWH09AAA-K6DNA1C/I 2.GWH09AAAXA-K6DNA2C/I 3.GWH09AAA-K6DNA5C/I 4.GWH09AAA-K6DNA3C/I 5.GWH09AAA-K6DNA6C/I 6.GWH09AAA-K6DNA2C/I 7.GWH09AAAXA-K6DNA5C/I
	Product Code		1.CB476N08800 2.CB477N04600 3.CB488N04300 4.CB478N02400 5.CB399N03500 6.CB477N04800 7.CB488N04600
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф93Х505
		r/min	1300/1200/1100/750
			4000/1200/1100/100
	Heating Speed	r/min	1200/1100/1000/800
	Fan Motor Power Output	W	10
	Fan Motor RLA	А	0.22
	Fan Motor Capacitor	μF	1
Indoor Linit	Evaporator Form		Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ5
	Evaporator Row-fin Gap	mm	2-1.4
	Evaporator Coil Length (LXDXW)	mm	509X22 8X266 7
	Swing Motor Model		MP24AN
	Swing Motor Power Output	W	15
	Fuse Current	Δ	3 15
	Sound Pressure Level	dB (A)	Cooling:40/38/33/24 Heating:36/35/32/24
	Sound Power Level	dB (A)	Cooling:54/51/46/37 Heating:46/45/42/34
	Dimension (WXHXD)	mm	698X250X185
	Dimension of Carton Box (LXWXH)	mm	742X306X244
	Dimension of Package (LXWXH)	mm	745X322X255
	Net Weight	ka	7.5
	Gross Weight	kg	8.7

	Outdoor Unit Model		GWH09AGA-K6DNA1C/O
	Outdoor Unit Product Code		CB385W05100
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-N075zC170
	Compressor Oil		FW68DA or equivalent
	Compressor Type		Rotary
	Compressor LRA.	Α	/
	Compressor RLA	Α	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	635X19.05X418
	Fan Motor Speed	rpm	940±20
Outdoor	Fan Motor Power Output	W	20
Unit	Fan Motor RLA	A	0.30
	Fan Motor Capacitor	μF	1.5
	Outdoor Unit Air Flow Volume	m ³ /h	1400
	Fan Type		Axial-flow
	Fan Diameter	mm	Ф350
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		1
	Moisture Protection		IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-
	Sound Power Level (H/M/L)	dB (A)	61/-/-
	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	0.5
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
Contraction	Outer Diameter Liquid Pipe	inch	1/4
Pine	Outer Diameter Gas Pipe	inch	3/8
	Max Distance Height	m	10
	Max Distance Length	m	15
	Note: The connection pipe applies metric diameter	er.	

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

Model			GWH12AAB-K6DNA5C GWH12AAB-K6DNA3C GWH12AAB-K6DNA1C
Product Code	9		CB488004001 CB478002300 CB476008900
	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Supply	v Mode		Outdoor
Cooling Capa	acity	W/	3500
Heating Capa	acity	W	3500
Cooling Powe	er Innut	W	1083
Heating Powe	er Input	W	918
Cooling Curre	ent Input	Δ	48
Heating Curre	ent Input	A	4
Rated Input		W	1500
Rated Cooling	a Current	A	6
Rated Heatin	a Current	A	75
Air Flow Volu	me	m ³ /h	590/520/400/280
Dehumidifvin	a Volume	I /h	14
FFR	g tolanio	W/W	3.23
COP		W/W	3.81
SEER		W/W	
Application A	rea	m ²	15-22
<u>, , , , , , , , , , , , , , , , , , , </u>			GWH12AAB-K6DNA5C/I
	Model		GWH12AAB-K6DNA3C/I GWH12AAB-K6DNA1C/I
	Product Code		CB488N04001 CB478N02300 CB476N08900
	Fan Type		Cross-flow
	Fan Diameter Length(DXL)	mm	Ф93×580
		r/min	1350/1200/1100/850
			1250/1200/1100/000
	Heating Speed	r/min	1350/1200/1100/900
	Fan Motor Power Output	W	20
	Fan Motor RLA	А	0.22
	Fan Motor Capacitor	μF	1
	Evaporator Form		Aluminum Fin-copper Tube
Indoor Unit	Evaporator Pipe Diameter	mm	ф5
	Evaporator Row-fin Gap	mm	2-14
	Evaporator Coil Length (LXDXW)	mm	584x22 8x266 7
	Swing Motor Model		MD24AN
	Swing Motor Rower Output	۱۸/	1.5
	Swilly Motor Fower Output	<u>۷۷</u>	2 15
		~	Cooling: 41/37/33/24
	Sound Pressure Level	dB (A)	Heating:41/37/33/24
	Sound Power Level	dB (A)	Heating:53/49/45/36
	Dimension (WXHXD)	mm	773X250X185
	Dimension of Carton Box (LXWXH)	mm	817X306X244
	Dimension of Package (LXWXH)	mm	822X322X255
	Net Weight	kg	8.2
	Gross Weight	kg	9.4

	Outdoor Unit Model		GWH12AGB-K6DNA1B/O
	Outdoor Unit Product Code		CB385W04800
	Compressor Manufacturer		ZHUHAI LANDA
			COMPRESSOR CO., LTD
	Compressor Model		FIZ-AN088ACBF-A
			FW68DA
	Compressor Type		Rotary
	Compressor LRA.	A	/
	Compressor RLA	A	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	1-1.4
	Condenser Coil Length (LXDXW)	mm	700X19.05X528
	Fan Motor Speed	rpm	900
Outdoor	Fan Motor Power Output	W	28
Unit	Fan Motor RLA	Α	0.35
onic	Fan Motor Capacitor	μF	2.5
	Outdoor Unit Air Flow Volume	m ³ /h	1950
	Fan Type		Axial-flow
	Fan Diameter	mm	Φ400
	Defrosting Method		Automatic Defrosting
			T1
	Meisture Protection		
	Moisture Protection		IPA4
	the Discharge Side	MPa	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
	Sound Pressure Level (H/M/L)	dB (A)	51
	Sound Power Level (H/M/L)	dB (A)	64
	Dimension(WXHXD)	mm	732X550X330
	Dimension of Carton Box (LXWXH)	mm	789X390X600
	Dimension of Package(LXWXH)	mm	792X393X615
	Net Weight	kg	25
	Gross Weight	kq	27.5
	Refrigerant		R32
	Refrigerant Charge	kq	0.55
	Connection Pipe Length	m	5
	Connection Pipe Gas Additional Charge	g/m	16
	Outer Diameter Liquid Pipe	inch	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8
Pipe	Max Distance Height	m	10
	Max Distance Length	m	15
	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.GWH12AABXB-K6DNA2C 2.GWH12AABXB-K6DNA6C 3.GWH12AABXB-K6DNA5C	
Product Code			1.CB477004900/CB477004901 2.CB399003700 3.CB488004800	
Rated Voltage		V~	220-240	
Power	Rated Frequency	Hz	50	
Supply	Phases		1	
Power Supply	/ Mode		Outdoor	
Cooling Capa	acity	W	3500	
Heating Capa	acity	W	3500	
Cooling Powe	er Input	W	1083	
Heating Powe	er Input	W	918	
Cooling Curre	ent Input	Α	4.97	
Heating Curre	ent Input	Α	4.22	
Rated Input		W	1550	
Rated Cooling	g Current	Α	8	
Rated Heatin	g Current	Α	9	
Air Flow Volu	me	m³/h	590/520/480/400/350/320/280	
Dehumidifyin	g Volume	L/h	1.80	
EER		W/W	3.23	
COP		W/W	3.81	
SEER		W/W	/	
HSPF		W/W		
Application A	rea	m ²	15-22	
	Model		1.GWH12AABXB-K6DNA2C/I 2.GWH12AABXB-K6DNA6C/I 3.GWH12AABXB-K6DNA5C/I	
	Product Code		1.CB477N04900/CB477N04901 2.CB399N03700 3.CB488N04800	
	Fan Type		Cross-flow	
	Fan Diameter Length(DXL)	mm	Ф93x580	
	Cooling Speed	r/min	1350/1200/1150/1100/1000/900/850	
	Heating Speed	r/min	1350/1200/1150/1100/1020/950/900	
	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	Φ7	
Indoor Unit	Evaporator Row-fin Gap	mm	2-1.4	
	Evaporator Coil Length (LXDXW)	mm	584×22 8×266 7	
	Swing Motor Model		MP24AA	
	Swing Motor Power Output	W	15	
	Fuse Current	Δ	3 15	
			Cooling:41/37/35/33/31/29/57	
	Sound Pressure Level	dB (A)	Heating:43/39/37/34/33/30/28	
			Cooling:56/49/47/45/42/38/36	
	Sound Power Level	dB (A)	Heating:53/49/47/45/43/40/37	
	Dimension (WXHXD)	mm	773X250X185	
	Dimension of Carton Box (LXWXH)	mm	817X306X244	
	Dimension of Package (LXWXH)	mm	822X322X255	
	Net Weight	kg	8.4	
	Gross Weight	kg	9.5	

	Outdoor Unit Model		GWH12AGBXB-K6DNA4C/O				
	Outdoor Unit Product Code		CB558W02600				
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR				
	Comprossor Model						
			F12-ANTOACBD				
		٨	Rolary				
		A	1				
		A	4.4				
	Compressor Power Input	VV	/				
	Compressor Overload Protector		/				
		00	Capillary				
		0°C	16~30				
	Cooling Operation Ambient Temperature Range	0°C	-15~43				
	Heating Operation Ambient Temperature Range	°C	-15~24				
	Condenser Form		Aluminum Fin-copper Tube				
	Condenser Pipe Diameter	mm	Φ7				
	Condenser Rows-fin Gap	mm	1-1.2				
	Condenser Coil Length (LXDXW)	mm	677×19.05×528				
	Fan Motor Speed	rpm	900				
	Output of Fan Motor	W	28				
Outdoor	Fan Motor RLA	A	0.35				
Unit	Fan Motor Capacitor		2.5				
	Heater Power Input	W	/				
	Outdoor Unit Air Flow Volume	m³/h	1950				
	Fan Type		Axial-flow				
	Fan Diameter	mm	Ф400				
	Defrosting Method		Automatic Defrosting				
	Climate Type		T1				
	Isolation		I				
	Moisture Protection		IPX4				
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3				
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5				
	Sound Pressure Level (H/M/L)	dB (A)	52/-/-				
	Sound Power Level (H/M/L)	dB (A)	64/-/-				
	Dimension(WXHXD)	mm	732X555X330				
	Dimension of Carton Box (LXWXH)	mm	791X373X590				
	Dimension of Package(LXWXH)	mm	794X376X615				
	Net Weight	kg	25.5				
	Gross Weight	kg	28				
	Refrigerant		R32				
	Refrigerant Charge	kg	0.39				
	Connection Pipe Length	m	5				
	Connection Pipe Gas Additional Charge	a/m	16				
	Outer Diameter Liquid Pipe	inch	1/4				
Connection	Outer Diameter Gas Pipe	inch	3/8				
Pipe	Max Distance Height	m	10				
	Max Distance Length	m	15				
	Note: The connection pipe applies metric diameter.						

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

Model			GWH18AAD-K6DNA6E	1.GWH24AADXE-K6DNA6A 2.GWH24AADXE-K6DNA2A 3.GWH24AADXE-K6DNA5A
Product Code	2		CB399003101	1.CB399003600 2.CB477004700/CB477004701 3.CB488004700
D	Rated Voltage	V~	220-240	220-240
Power	Rated Frequency	Hz	50	50
Supply	Phases		1	1
Power Suppl	y Mode		Outdoor	Outdoor
Cooling Capa	acity	W	4600	6155
Heating Capa	acity	W	5200	6200
Cooling Powe	er Input	W	1355	1917
Heating Pow	er Input	W	1340	1698
Cooling Curre	ent Input	A	5.9	8.89
Heating Curr	ent Input	A	5.8	7.88
Rated Input		W	1900	2300
Rated Coolin	a Current	Δ	8	11.5
Rated Heatin	a Current	Δ	9	/
Air Flow Volu	me	m^{3}/h	850/800/700/600	, 900/800/700/650/600/550/500
Debumidifyin	a Volume	L/h	1.80	1.8
EED	g volume		3 30	3.21
			3.88	3.65
			5.86	3.05
Application A	rea	m ²	/ 21_31	7
Application A		111	21-31	
	Model		GWH18AAD-K6DNA6E/I	2.GWH24AADXE-K6DNA6A/I 2.GWH24AADXE-K6DNA2A/I 3.GWH24AADXE-K6DNA5A/I
	Product Code		CB399N03101	1.CB399N03600 2.CB477N04700/CB477N04701 3.CB488N04700
	Fan Type		Cross-flow	Cross-flow
	Fan Diameter Length(DXL)	mm	Ф106X706	Ф106X706
	Cooling Speed	r/min	1230/1170/1020/800	1400/1300/1200 /1100/1000/900/800
	Heating Speed	r/min	1350/1270/1130/900	1400/1270/1200/1130/1050/980/900
	Fan Motor Power Output	W	35	45
	Fan Motor RLA	Δ	0.45	0.24
	Fon Motor Consoltor		2.5	0.24
	Fundamentar Form	μι	2.5 Aluminum Fin connor, Tubo	
Indoor Unit	Evaporator Pipe Diameter	mm	Φ	Ψ
	Evaporator Row-fin Gap	mm	2-1.4	2-1.4
	Evaporator Coil Length (LXDXW)	mm	715X25.4X304.8	715×25.4×304.8
	Swing Motor Model		MP35CP	MP35CP
	Swing Motor Power Output	W	2.5	2.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level	dB (A)	Cooling:44/42/38/31 Heating:48/46/41/34	Cooling:49/46/43/41/38/34/31 Heating:49/46/44/42/39/37/35
	Sound Power Level	dB (A)	Cooling:54/52/48/41 Heating:58/56/51/34	Cooling:58/56/53/51/48/44/41 Heating:58/56/54/52/49/47/45
	Dimension (WXHXD)	mm	970X300X225	970X300X225
	Dimension of Carton Box (LXWXH)	mm	1017X366X285	1017X366X285
	Dimension of Package (LXWXH)	mm	1020X369X295	1020X369X295
	Net Weight	ka	13.5	12.7
	Gross Weight	kg	16	14.8

	Outdoor Unit Model		GWH18ALD-K6DNA1A/O	GWH24QDXE-K6DNB6A/O
	Outdoor Unit Product Code		CB513W01600	CB435W15700
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO. LTD.
	Compressor Model		FTz-AN108ACBD	FTz-SM151AXBD
	Compressor Oil		FW68DA or equivalent	FW68DA
	Compressor Type		Rotary	Rotary
	Compressor LRA.	Α	19	/
	Compressor RLA	Α	4.4	6.06
	Compressor Power Input	W	952	1330
	Compressor Overload Protector		/	/
	Throttling Method		Capillary	Capillary
	Set Temperature Range	°C	16~30	16~30
	Cooling Operation Ambient Temperature Range	°C	-15~43	-15~43
	Heating Operation Ambient Temperature Range	°C	-15~24	-15~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7	Φ7
	Condenser Rows-fin Gap	mm	1-1.4	2-1.4
	Condenser Coil Length (LXDXW)	mm	700×38.1×528	848x38.1x528
	Fan Motor Speed	rom	900	900
	Output of Fan Motor	W	30	40
Outdoor	Fan Motor RI A	Δ	0.40	0.7
Unit	Fan Motor Canacitor	υE	/	/
			/	1
	Heater Power Input	VV	/	,
		m'/n	1950	2800
	Fan Type		Axiai-flow	Axiai-flow
		mm	φ400	Φ445
			Automatic Defrosting	Automatic Defrosting
			1	<u> </u>
	Isolation		I	
	Moisture Protection		IPX4	IPX4
	Discharge Side	MPa	4.3	4.3
	Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5	2.5
	Sound Pressure Level (H/M/L)	dB (A)	55/-/-	58/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-	67/-/-
	Dimension(WXHXD)	mm	732X555X330	873X555X376
	Dimension of Carton Box (LXWXH)	mm	791X373X590	948X428X591
	Dimension of Package(LXWXH)	mm	794X376X615	951X431X620
	Net Weight	kg	26.5	35.5
	Gross Weight	kg	29	38.5
	Refrigerant		R32	R32
	Refrigerant Charge	kg	0.75	1
	Connection Pipe Length	m	5	5
	Connection Pipe Gas Additional Charge	g/m	16	16
_	Outer Diameter Liquid Pipe	inch	1/4	1/4
Connection	Outer Diameter Gas Pipe	inch	3/8	1/2
Pipe	Max Distance Height	m	10	10
	Max Distance Length	m	25	25
	Note: The connection pipe applies metric diameter.	. <u> </u>		

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

2.2 Capacity Variation Ratio According to Temperature

07K:







2.3 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated cooling condition(°C) (DB/WB)		Madal	Pressure of gas pipe connecting Inlet and outlet pipe temperature of heat exchanger		Fan speed of	Fan speed of	
Indoor	Outdoor	woder	P (MPa)	T1 (°C)	T2 (°C)	indoor unit	outdoor unit
27/19	35/24	07/09K	0.8 to 1.0	in:8~11 out:11~14	in:75~85 out:37~43	Super High	High
27/19	35/24	12K	0.8 to 1.1	in:10~14 out:11~14	in:69~74 out:38~45	Super High	High
27/19	35/24	18K	0.8 to 1.0	in:8~11 out:11~14	in:75~85 out:37~43	Super High	High

Heating:

Rated cooling condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting Inlet and outlet pipe temperature of indoor and outdoor unit heat exchanger			Fan speed of	Fan speed of
Indoor	Outdoor	Widdei	P (MPa)	T1 (°C)	T2 (°C)	indoor unit ou	outdoor unit
20/-	7/6	07/09K	2.4 to 2.6	in:55~65 out:30~37	in:1~3 out:2~5	Super High	High
20/-	7/6	12K	2.4 to 2.6	in:55~65 out:25~32	in:1~3 out:2~5	Super High	High
20/-	7/6	18K	2.2 to 2.4	in:75~85 out:37~43	in:1~3 out:2~5	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



Model	W	Н	D	W1	W2	W3
AAA	698	250	185	93	462	143
AAB	773	250	185	131	462	180
AAD	970	300	225	104	685	181

3. Outline Dimension Diagram

3.2 Outdoor Unit

GWH07AGA-K6DNA1A/O GWH07AGA-K6DNA1C/O GWH09AGA-K6DNA1C/O







Unit:mm

GWH12AGB-K6DNA1B/O









3. Outline Dimension Diagram

GWH18ALD-K6DNA1A/O GWH12AGBXB-K6DNA4C/O







Unit:mm

GWH24QDXE-K6DNB6A/O





Unit:mm

4. Refrigerant System Diagram

Heating model



Connection pipe specification: Liquid pipe:1/4" Gas pipe:3/8" 07/09/12/18K Gas pipe:1/2"24K

5.1 Wiring Diagram

Instruction

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

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

• Indoor Unit

GWH07AAA-K6DNA3B/I GWH09AAA-K6DNA6C/I GWH09AAAXA-K6DNA2C/I GWH09AAA-K6DNA1C/I GWH07AAA-K6DNA6C/I(CB399N02501) GWH12AAB-K6DNA1C/I GWH07AAA-K6DNA5C/I(CB488N04101) GWH07AAAXA-K6DNA2C/I(CB477N04500) GWH12AABXB-K6DNA2C/I(CB477N04900) GWH12AABXB-K6DNA6C/I(CB399N03700) GWH12AABXB-K6DNA5C/I (CB488N04800) GWH09AAAXA-K6DNA5C/I(CB488N04600)



GWH07AAA-K6DNA3C/I GWH07AAA-K6DNA4C/I GWH07AAA-K6DNA5C/I(CB488N04100) GWH07AAA-K6DNA6C/I(CB399N02500) GWH09AAA-K6DNA5C/I GWH09AAA-K6DNA3C/I GWH12AAB-K6DNA5C/I GWH12AAB-K6DNA3C/I GWH07AAAXA-K6DNA2C/I(CB477N04501) GWH09AAA-K6DNA2C/I(CB477N04800) GWH12AABXB-K6DNA2C/I(CB477N04901)



GWH18AAD-K6DNA6E/I



Technical Information

GWH24AADXE-K6DNA6A/I(CB399N03600) GWH24AADXE-K6DNA2A/I(CB477N04700/CB477N04701) GWH24AADXE-K6DNA5A/I(CB488N04700)



Outdoor Unit

GWH07AGA-K6DNA1A/O



GWH07AGA-K6DNA1C/O GWH09AGA-K6DNA1C/O





GWH12AGB-K6DNA1B/O



Technical Information

GWH18ALD-K6DNA1A/O GWH24QDXE-K6DNB6A/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





No.	Name
1	Fuse
2	Live wire interface
3	Interface of health function neutral wire(only for the model with this function)
4	Neutral wire interface
5	Fan motor interface of PG
6	Interface of health function live wire(only for the model with this function)
7	Communication interface

No.	Name
8	Auto button
9	Interface of PG feedback interface
10	Swing interface
11	Jumper cap
12	Interface of temperature sensor
13	Display interface
14	Wifi interface









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

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

Outdoor Unit

GWH07AGA-K6DNA1C/O GWH09AGA-K6DNA1C/O



No.	Name
1	Needle stand of compressor
2	E disk
3	Electronic expansion valve
4	Compressor Overload
5	Temperature sensor
6	Needle stand of fan

No.	Name
7	Electric heating of chasssis
8	4-way valve
9	Neutral wire
10	Communication wire
11	Live wire
12	Earthing wire

GWH07AGA-K6DNA1A/O



GWH12AGB-K6DNA1B/O GWH12AGBXB-K6DNA4C/O



No.	Name	No.	Name
1	Terminal of outdoor fan	7	Communication wire
2	4-way valve interface	8	Terminal of electronic expansion valve
3	Terminal of electric heating for chassis	9	Overload interface of compressor
4	Grounding wire	10	Terminal of temperature sensor
5	Live wire	11	Compressor three phase input interface
6	Neutral wire		

GWH18ALD-K6DNA1A/O



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

GWH24QDXE-K6DNB6A/O



No.	Name
1	Earthing wire
2	Live wire
3	Communication wire
4	Neutral wire
5	4-way valve
6	Electric heating belt of chassis
7	Electronic expansion valve

No.	Name
8	Fan terminal
9	Temperature sensor
10	Overload of compressor
11	Dred power supply
12	Dred communication
13	E disk

6. Function and Control

6.1 Remote Controller Introduction

NOTE:

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

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

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

Buttons on remote controller

YAP1F2(WiFi)



ON/OFF

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



Press this button to select your required operation mode.



• After selecting cool mode, air conditioner will operate under cool

mode. Press "▲" or "▼" button to adjust set temperature. Press "FAN" button to adjust fan speed. Press " 示 " / " 刹 " 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 " 示 " / " 泳 " button to adjust fan blowing angle.

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

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

NOTE:

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

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

• This indicator is not available for some models.



NOTE:

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

• X-FAN function Hold fan speed button for 2s in COOL or DRY
mode, the icon " \otimes " is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode. This function indicates that moisture on evaporator of indoor unit will be blowed after the unit is stopped to avoid mould.

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

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

TURBO

Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. " (6) " icon is displayed on remote controller. Press this button again to exit turbo function and " (6) " icon will disappear.

If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temperature approachs the preset temperature as soon as possible.

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

一界)

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



NOTE:

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

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

This function only applicable for some models.

() ||

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

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

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

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

• When selecting " ₅ 0 , ₅ 0 , ₃ 0 ", air conditioner is blowing fan at fixed angle.

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

NOTE:

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

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

• Under swing up and down mode, when the status is switched from off to **1** , if press this button again 2s later, **1** of status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

T-ON|T-OFF

• T-ON button

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

• T-OFF button

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

NOTE:

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

Technical Information

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

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

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

(I FEEL)

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

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

CLOCK

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

NOTE:

• Clock time adopts 24-hour mode.

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

SLEEP

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

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

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

WiFi

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

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

NOTE:

• This function is only available for some models.

(余/俞) button

Press this button to achieve the on and off of health and scavenging functions in operation station. Press this button for the first time to start scavenging function; LCD displays " \therefore ". Press the button for the second time to start health and scavenging functions simultaneously; LCD displays " \therefore " and " \Rightarrow ". Press this button for the third time to quit health and scavenging functions simultaneously. Press the button for the fourth time to start health function; LCD display " \Rightarrow ". Press this button again to repeat the operation above.

NOTE:

• This function is applicable to partial of models.

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

The display light is defaulted on after energization.

(TEMP)

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



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

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

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

NOTE:

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

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

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

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

Introduction for icons on display screen

FAN AUTO		Set fan speed	
^		Send signal	
WiFi		WiFi function	
		🗋 Set temp.	
	습니 Temp.	o Indoor ambient temp.	
ais	splay type	ப் Outdoor ambient temp.	
qe	\bigtriangleup	Auto mode	
mod	*	Cool mode	
tion	۰ ⁴ ۰	Dry mode	
era	\$	Fan mode	
d	\$	Heat mode	
	88	Set temperature	
	\$	8°C heating function	
	≉	Health mode	
	む	Scavenging function	
	æ	X-FAN function	
	. iF	l feel	
		Child lock	
	P	Quiet	
	\$	Turbo mode	
63		Sleep mode	
	Θ	Clock	
	ONOFF	TIMER ON / TIMER OFF	
	88:88	Set time	
	1	Up & down swing	
		Left & right swing	
P		Power limiting operation	

Function introduction for combination buttons

Energy-saving function

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

NOTE:

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

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

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

8°C heating function

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

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

NOTE:

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

• Under 8°C heating function, set temperature can't be adjusted. Press "TURBO" button and the remote controller won't send signal.

• Sleep function and 8°C heating function can't operate at the same time. If 8°C heating function has been set under heat mode, press sleep button will cancel 8°C heating function. If sleep function has been set under heat mode, start up the 8°C heating function will cancel sleep function.

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

Child lock function

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

• Temperature display switchover function

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

Auto clean function

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

NOTE:

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

• This function is only available for some models.

Night mode

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

NOTE:

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

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

Replacement of batteries in remote controller

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

2.Take out the original batteries (as shown in Fig 1 2).

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



NOTICE:

• During operation, point the remote control signal sender at the receiving window on indoor unit.

• The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.

• Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.

• Replace new batteries of the same model when replacement is required.

• When you don't use remote controller for a long time, please take out the batteries.

• If the display on remote controller is fuzzy or there's no display, please replace batteries.

YAA1FB6(WiFi)

Buttons on remote controller



Introduction for icons on display screen

÷		I feel	
		Set fan speed	
	\$	Turbo mode	
	^	Send signal	
qe	\bigtriangleup	Auto mode	
mo(*	Cool mode	
tion	6 ⁶ 6	Dry mode	
eral	\$	Fan mode	
d	\$	Heat mode	
	C	Sleep mode	
	\$	8°C heating function	
	≉	Health mode	
	俞	Scavenging function	
	P	Quiet	
æ		X-FAN function	
ြူ Temp.		🗋 Set temp.	
		ာ Indoor ambient ဗီ temp.	
ais	olay type	습 [়] Outdoor ambient temp.	
	Θ	Clock	
	88	Set temperature	
	WiFi	WiFi function	
88:88		Set time	
ONOFF		TIMER ON / TIME OFF	
	<u>=0,</u>	Light	
		Left & right swing	
	刹	Up & down swing	
		Child lock	

Introduction for buttons on remote controller NOTE:

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

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

ON/OFF button

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

button

Press this button to decrease set temperature. Holding it down above 2 seconds rapidly decreases set temperature. In Auto mode, set temperature is not adjustable.

🔵 button

Press this button to increase set temperature. Holding it down above 2 seconds rapidly increases set temperature. In Auto mode, set temperature is not adjustable.

MODE button

Each time you press this button, a mode is selected in a sequence that goes from Auto, Cool, Dry, Fan, and Heat*, as the following:





After energization, Auto mode is defaulted. In Auto mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode in accordance with the room temperature to make indoor room comfortable. (As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

FAN button

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

Low speed A Medium speed A High speed

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.

SWING button

Press this button to set up & down swing angle, which circularly changes as below:

$$\bigcirc \mathring{\boldsymbol{x}} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{x} \rightarrow \mathring{\hat{x}} \rightarrow \mathring{x} \rightarrow \mathring$$

This remote controller is universal. If any command ≥ 1 , ≥ 1 or > 1 is sent out, the unit will carry out the command as > 1

I indicates the guide louver swings as:

╵╢╘╴╢╘╶╢╘╶╢

IFEEL button

Press this button to turn on I FEEL function. The unit automatically adjust temperature according to the sensed temperature. Press this button again to cancel I FEEL function.

• 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.

・ キ/ む button

Press this button to achieve the on and off of health and scavenging functions in operation status. 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 "①" and "个". 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 "个". Press this button again to repeat the operation above.

Notice :

This function is only available for some models.

SLEEP button

Press this button to go into the Sleep operation mode. Press it again to cancel this function. This function is available in Cool, Heat (Only for models with heating function) mode to maintain the most comfortable temperature for you.

TEMP button

Press this button can see indoor set temperature, indoor ambient temperature or outdoor ambient temperature on indoor unit's display. Temperature is set circularly by remote controller as below:



- When selecting " 🗋 " or no display with remote controller, temperature indicator on indoor unit displays set temperature.
- When selecting " (1) " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature.

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

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

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

TIMER-ON button

Press this button to initiate the auto-ON timer. To cancel the autotimer program, simply press this button again.

CLOCK button

Press CLOCK button, blinking (). Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and then () will be constantly displayed.

TIMER-OFF button

Press this button to initiate the auto-off timer. To cancel the autotimer program, simply press the button again. TIMER OFF setting is the same as TIMER ON.

TURBO button

Press this button to activate / deactivate the Turbo function which enables the unit to reach the preset temperature in the shortest time. In COOL mode, the unit will blow strong cooling air at super high fan speed. In HEAT mode, the unit will blow strong heating air at super high fan speed.

LIGHT button

Press LIGHT button to turn on the display's light and press this button again to turn off the display's light. If the light is turned on, $2\frac{1}{2}$ is displayed. If the light is turned off, $2\frac{1}{2}$ displayears.

WiFi) button

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

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

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

• This function only applicable for some models.

Function introduction for combination buttons

Combination of "+" and "-" buttons: About Child lock

Press " + " and " - " buttons simultaneously to lock or unlock the keypad. If the remote controller is locked, \square is displayed. In this case, pressing any button, \square blinks three times.

Combination of "MODE" and "-" buttons:

About switch between Fahrenheit and centigrade

At unit OFF, press "MODE" and "-" buttons simultaneously to switch between °C and °F.

Combination of "TEMP" and "CLOCK" buttons: About Energy-saving Function

Press "TEMP" and "CLOCK" simultaneously in COOL mode to start energy-saving function. Nixie tube on the remote controller displays "SE". Repeat the operation to quit the function.

Combination of "TEMP" and "CLOCK" buttons: About 8°C Heating Function

Press " TEMP " and " CLOCK " simultaneously in HEAT mode to start 8°C Heating Function. Nixie tube on the remote controller displays " (*) " and a selected temperature of " 8°C " . (46°F if Fahrenheit is adopted). Repeat the operation to quit the function.

About Health function (COLD PLASMA)

Turn on the unit, start up the fan (Breezing and X-FAN are excluded) and press Health button on remote controller to start health function (If there is not Health button on remote controller, the unit defaults health function ON.)

If "H1" is displayed on the remote controller while it's not operated by the professional person/after-sales person, it belongs to the misoperation.

Please operate it as below to cancel it.Under the OFF status of remote controller, hold the "MODE" button and "X-FAN" buttons simultaneously for 5s to cancel "H1" display. Sub-Assy Note:

• If remote controller displays "H1", it belongs to the normal function reminder. If the unit is defrosting under heating mode, it operates according to H1 defrosting mode. "H1" won't be displayed on the panel of indoor unit;

• Once you set H1 mode, if you turn off unit by remote controller, H1 will display 3 times on the remote controller and then disappear;

• Also, when you set H1 mode, when you change to heating mode, H1 will display 3 times on the remote controller and then disappear.

Replacement of batteries in remote controller



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

Buttons on remote controller for YAY1F



Introduction for icons on display screen

.ŧ		l feel		
FAN AUTO		Set fan speed		
	\$	Turbo mode		
	?	Send signal		
ge	\square	Auto mode		
bom	*	Cool mode		
tion	6 ⁴ 6	Dry mode		
erat	\$	Fan mode		
g	\$	Heat mode		
	C 3	Sleep mode		
	₹Q.	Light		
•		Power limiting operation		
&		X-FAN function		
Û		Indoor ambient temp.		
Θ		Clock		
88:		Set temperature		
	WiFi	WiFi function		
88:88		Set time		
ONOFF		TIMER ON / TIMER OFF		
	~~	Left & right swing		
	1	Up & down swing		
		Child lock		
P		Quiet		

NOTE:

• This is a general use remote controller. It could be used for the air conditioner with multifunction. For the functions which the

model doesn't have, if press the corresponding button on the remote controller, the unit will keep the original running status.

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

也 button

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

MODE button

Press this button to select your required operation mode:

AUTO	COOL	DRY	FAN	HEAT	
$\rightarrow \bigcirc -$	→*-	≁ ۵⁴6 —	≁ ન્સ્ક –	→ \$ –	
(-,)

• 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°C).

• This mode indicator is not available for some models.

 \bullet Cooling only unit won't receive heat mode signal. If setting heat mode with remote cont roller, press " \oplus " button can't start up the unit.

FAN button

This button is used for setting Fan Speed in the sequence that goes from AUTO, \mathbf{O} , \mathbf{O}

NOTE:

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

• It's low fan speed under dry mode.

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

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

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

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

-/+ button

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

MENU button

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

$$(\overset{\overset{\circ}{\to}}{\longrightarrow} \overset{\overset{\circ}{\to}}{\longrightarrow} \overset{\overset{\circ}{\to}}{\rightarrow} \overset{\circ}{\to} \overset{\circ}{\to}$$

NOTE:

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

(≚☆≝ Light function)

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

🤇 🔮 Sleep function)

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

• Sleep 1 is Sleep mode 1, in Cool modes; sleep status after run for one hour, the main unit setting temperature will increase 1°C, two hours, setting temperature increased 2°C, then the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease 1°C, two hours, setting temperature will decrease 2°C, then the unit will run at this setting temperature.

• Sleep 2 is sleep mode 2, that is air conditioner will run according

to the presetting a group of sleep temperature curve.

• Sleep 3-the sleep curve setting under Sleep mode by DIY;

(1)Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individuation sleep setting status, at this time, the time of remote controller will display "1hour", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink(The first entering will display according to the initial curve setting value of original factory);

(2)Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation;

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

(4) Repeat the above step $(2)\sim(3)$ operation, until 8 hours temperature setting finished, sleep,curve setting finished, at this time, the remote controller will resume the original timer display; temperature display will resume to original setting temperature.

• Sleep3- the sleep curve setting under Sleep mode by DIY could be inquired:

The user could accord to sleep curve setting method to inquire the presetting sleep curve, enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation. Note: In the above presetting or enquiry procedure, if continuously within 10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press" () " button, "MODE" button, the sleep curve setting or enquiry procedure, press" () " button, "MODE" button, the sleep curve setting or enquiry status will quit similarly.

TIMER ON function

TIMER ON function can set the time for timer on.Under TIMER ON function status," () " icon disappears and the word "ON" on remote controller blinks. Press "+" or "-" button to adjust TIMER ON setting. After each pressing "+" or "-" button TIMER ON setting will increase or decrease 1min.Hold "+" or "-" button, 2s later, the time will change quickly until reaching your required time.Press "SET" button to confirm it within 5S. The word "ON" will stop blinking.

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

(TIMER OFF function)

TIMER OFF function can set the time for timer off.Under TIMER OFF function status," () " icon disappears and the word "OFF" on remote controller blinks. Press "+" or "-" button to adjust TIMER OFF setting. After each pressing "+" or "-" button TIMER OFF setting will increase or decrease 1min.

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

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

(igodold D CLOCK function)

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

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

(🛲 Left & right swing function)

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

Fan blow angle can be selected circularly as below:



NOTE:

• The function is only available for some models.

(SE Energy-saving function)

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

$(m{B}_{c}$ 8 $^{\circ}$ -heating function)

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

NOTE:

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

📮 Power limiting function

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



 Maximum power limited under the a mode is lower than that of mode.

• If you want to cancel the power limiting function, press the button 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 **a** 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 " 😒 ", air conditioner is blowing fan automatically. Horizontal louver will automatically swing up & down at maximum angle.

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

NOTE:

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

• Under up and down swing mode, when the status is switched from off to reg 0, if press this button again 2s later, reg 0 status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

TURBO button

Under COOL or HEAT mode, press this button to turn to quick COOL or quick HEAT mode. " (5) " icon is displayed on remote controller. Press this button again to exit turbo function and " (5) " icon will disappear. If start this function, the unit will run at super-high fan speed to cool or heat quickly so that the ambient temperature approaches the preset temperature as soon as possible.

Function introduction for combination buttons

Child lock function

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

Temperature display switchover function

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

Auto clean function

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

NOTE:

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

• This function is only available for some models.

WiFi function

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

NOTE:

This function is only available for some models.

Ambient temperature display function

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



Adjustable temperature under auto mode

Mode and Turbo About WIFI function

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

Replacement of batteries in remote controller



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

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

3.Reinstall the cover of battery box.

NOTE:

• During operation, point the remote control signal sender at the receiving window on indoor unit.

• The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.

• Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.

• Replace new batteries of the same model when replacement is required.

• When you don't use remote controller for a long time, please take out the batteries.

• If the display on remote controller is fuzzy or there's no display, please replace batteries.

Buttons on remote controller

YAW1F10



Introduction for icons on display

		Set fan speed		
\$		Turbo mode		
1		Indoor ambient temp		
^		Send signal		
ge	\square	Auto mode		
mo	*	Cool mode		
tion	6 ⁴ 6	Dry mode		
erat	\$	Fan mode		
Q	\$	Heat mode		
	(*	Sleep mode		
	&	X-FAN function		
苓		Light		
	. È	I feel function		
	WiFi	WiFi function		
\$		8°C heating function		
		Child lock		
88		Set temperature		
1		Up & down swing		
	- 285	Set time		
ON OFF		TIMER ON / TIMER OFF		

Introduction for buttons on remote controller Notice:

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

• After putting through th epower, the air conditio-nerwill give out a sound. Power indicator " 🕁 " is ON. After that, you can operate the air conditioner by using remote controller.

• As for the models with functions of WiFi or wired controller, the indoor unit must has been controlled by standard remote controller under auto mode first, and then the function of adjustable temperature under auto mode can be realized by APP or the wired controller.

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



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

Mode button

Each time you press this button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, FAN, and HEAT, as the following:

Notice:

• Heat mode: Only for models with heating function.

• Under auto mode, temperature can be displayed; Under auto mode, set temperature can be adjusted.

(Fan) button

This button is used for setting Fan Speed in the sequence that goes from AUTO, (\mathbf{n}) , \mathbf{n} , $\mathbf{n$

Notice:

• Fan speed under dry mode is low speed.



Press \blacktriangle / \checkmark button to increase / decrease set temperature. When setting Timer On or Timer Off, press " \blacktriangle " or " \checkmark " button to adjust the time.

(Swing) button

Press this button to set up & down swing angle.

(Sleep) button

Under Cool or Heat mode, press this button to turn on Sleep function. Press this button again to cancel Sleep function. Under Fan, Auto and Dry modes, this function is unavailable.

Temp button

Press this button, you can see indoor set tempera-ture, indoor ambient temperature on indoor unit's display. The setting on



Under cool or heat mode, press this button to turnto quick cool or quick heat mode. " (6) " icon isdisplayed on remote controller. Press this button again to exit turbo function and " (6) " icon will disappear.

	I Feel	button
--	--------	--------

Turbo

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

When I FEEL function is turned on, the remote controller should be put within the area where indoor unit can receive the signal sent by the remote controller.

Timer button

• Under ON status, press this button to set timer OFF; Under OFF status, press this button to set timer ON.

• Press this button once and the characters of HOUR ON (OFF) will flash to be displayed. Meanwhile, press "▲" button or "▼" button to adjust timer setting (time will change quickly if holding "▲" or "▼" button). Time setting range is 0.5~ 24hours.

• Press this button again to confirm timer setting and the characters of HOUR ON (OFF) will stop flashing.

• If the characters are flashing but you haven't press timer button, timer setting status will be quit after 5s. If timer is confirmer, press this button again to cancel timer.

X-Fan button

• Press this button in COOL or DRY mode to turn on X-fan function.

• When this function is started up, indoor fan will still operate at low fan speed for a while after turning off the unit by remote controller.

Light button

Press this button to turn on the display's light and press this button again to turn off the display's light.

Function introduction for combination buttons

Combination of "▲" and "▼" buttons: about child lock

Press "▲" and "▼" buttons simultaneously 3s to lock or unlock the keypad. If the remote controlleris locked, 🖨 is displayed. In this case, pressingany button, 🔒 blinks three times.

Combination of "Mode" and "▼" buttons:About switch between Fahrenheit and centigrade

At unit OFF, press "Mode" and "▼" buttons sim-ultaneously to switch between °C and °F.

Combination of "Temp" and "Timer" buttons: About Energy-saving Function

Press "Temp" and "Timer" simultaneously in COOLmode to start

energy-saving function.

Nixie tube on the remote controller displays "SE". Repeat the operation to guit the function.

Combination of "Temp" and "Timer" buttons: About 8°C Heating Function

Press "Temp" and "Timer" simultaneously in HEAT mode to start 8°C Heating Function. Nixie tube on the remote controller displays " (\$) " and a selected temperature of "8°C". (46°F if Fahrenheit is adopted). Repeat the operation to guit the function.

WiFi function

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

Notice:

• The function is only available for some models.

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. Notice:

• 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.

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.

6.2 Brief Description of Models and Functions

Indoor Unit

1.Basic function of system

(1)Cooling mode

(1) Under this mode, fan and swing operates at setting status. Temperature setting range is 16~30°C.

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

(2)Drying mode

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

(3) Protection status is same as that under cooling mode.

(4) Sleep function is not available for drying mode.

(3)Heating mode

(1) Under this mode, Temperature setting range is $16 \sim 30^{\circ}$ C.

(2) Working condition and process for heating mode:

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

(4)Working method for AUTO mode:

1.Working condition and process for AUTO mode:

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

2.Protection function

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

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

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

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

(5)Fan mode

Under this mode, indoor fan operates at set fan speed. Compressor, outdoor fan, 4-way valve and electric heating tube stop operation. Indoor fan can select to operate at high, medium, low or auto fan speed. Temperature setting range is $16\sim30^{\circ}$ C.

2. Other control

(1) Buzzer

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

(2) Auto button

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

(3) Auto fan

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

(4) Sleep

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

(5) Timer function:

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

(6) Memory function

memorize compensation temperature, off-peak energization value. Memory content: mode, up&down swing, light, set temperature, set fan speed, general timer (clock timer Can't be memorized). After power recovery, the unit will be turned on automatically according to memory content.

(7) Health function

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

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

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

(1) Auto mode

 $(\underline{1})$ Operation condition and process for auto mode

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

♦ When Tamb. ≥26 $^\circ\!C$, unit will be in cooling mode $^\circ\!C$ Ex-factory set temperature is 25 $^\circ\!C$

♦ Cooling and heating unit: When Tamb≤(19°C +Tcompensation), unit will be in heating mode Tpreset=20°C .

♦ Cooling only unit: When Tamb≤22 $^\circ\!\!\mathbb{C}$ (or 72 $^\circ\!\!\mathbb{F}$), unit will be in fan mode Tpreset=25 $^\circ\!\!\mathbb{C}$.

♦ For cooling and heating unit under condition that (19 °C +Tcompensation) < Tamb < 26 °C (For cooling only unit under condition that 22 °C < Tamb < 26 °C), when unit is initially turned on in auto mode, it will operate according to auto fan mode. When unit is changed to auto mode from other modes, it will maintain its previous working status (If auto mode is turned on from drying mode, unit will operate according to auto fan mode).

2 Protection function is same as that under each mode.

(2) Cooling mode

 $(\underline{1})$ Operation condition and process for cooling mode

♦ When Tamb. ≥Tset+1 $^{\circ}$ C , the system operates under cooling mode. In this case, the compressor, the ODU fan motor and the IDU fan motor operates at set speed.

◆ When Tamb. ≤Tset-1 °C , the compressor and the ODU fan motor stop, while the IDU fan motor operates at set speed.

 \blacklozenge When Tset-1 $^\circ C$ <Tamb. <Tset+1 $^\circ C$, 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 $16{\sim}30\,^\circ\!{\rm C}$.

(8)I feel control mode

After controller received I feel control signal and ambient temperature sent by remote controller, controller will work according to the ambient temperature sent by remote controller.

(9)Entry condition for compulsory defrosting function

When turn on the unit under heating ode and set temperature is 16° C (or 16.5° C by remote controller), press " \triangle , \bigtriangledown , \bigcirc , \triangle , \bigtriangledown , \bigcirc , \triangle , \heartsuit , \Diamond , \heartsuit , \heartsuit " 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.

(10)Refrigerant recovery function:

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

(11)Ambient temperature display control mode

1. When user set the remote controller to display set temperature (corresponding remote control code: 01), current set temperature will be displayed.

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

Under this mode, indoor fan operates at set fan speed. Compressor, outdoor fan, 4-way valve and electric heating tube stop operation. Indoor fan can select to operate at high, medium, low or auto fan speed. Temperature setting range is $16\sim30^{\circ}$ C.

(12)Off-peak energization function:

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

The time interval between two start-ups of compressor Can't be

less than 180+Ts($0 \le T \le 15$). T is the variable of controller. Thats to say the minimum stop time of compressor is 180s~195s. Readin T into memory chip when refurbish the memory chip each time. After power recovery, compressor can only be started up after 180+T s at least.

(13) SE control mode

The unit operates at SE status.

(14) X-fan mode

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

(15) 8°C heating function

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

(16)Turbo function

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

Outdoor Unit

1. Cooling mode:

Working condition and process of cooling mode:

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

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

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

Under cooling mode, 4-way valve is not energized. Temperature setting range is $16\sim30$ °C . If compressor stops because of malfunction in cooling mode, indoor fan and swing motor will work according to the original status.

2. Drying mode

(1) Working condition and process of drying mode

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

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

3 When Tindoor ambient temperature < Tpreset-2 \degree C , compressor stops operation and outdoor fan will stop 30s later.

(2) Under drying mode, 4-way valve is not energized. Temperature setting range is 16~30 $^\circ\!{\rm C}$.

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

3. Fan mode

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

(2) In fan mode, temperature setting range is $16\sim30^{\circ}$ C.

4. Heating mode

Working condition and process of heating mode:

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

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

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

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

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

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

Note: Tcompensation is determined by IDU and ODU. If IDU controls the compensation temperature, then Tcompensation is determined according to the value sent by IDU to ODU; If IDU does not control the compensation temperature, then Tcompensation will default to 3° C by the ODU.

5. Freon recovery mode

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

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

6. Compulsory defrosting

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

After ODU receives the compulsory defrosting code, it will start compulsory defrosting. Defrosting frequency and opening angle will be the same as in normal defrosting mode. When

compulsory defrosting is finished, the complete unit resumes original status.

7. Auto mode

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

8.8°C heating

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

If compressor is operating under this mode, fan speed will adjust according to auto fan speed; if compressor stops operation

under this mode, indoor fan will be in residual-heat blowing status.

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

6.3 GREE+ App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Android system Support Android 4.4 and above version

Download and installation



GREE+ App Download Linkage

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

6.4 Ewpe Smart App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:





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.

Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

•The installation or maintenance must accord with the instructions.

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

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

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

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

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



Electrical Safety Precautions:

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

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

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

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

5. Have the unit adequately grounded. The grounding wire 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; dont replace it with a cooper wire or conducting wire.

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

Installation Safety Precautions:

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

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

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

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

5. Use equipped components or appointed components during installation.

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

Refrigerant Safety Precautions:

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

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

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

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

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

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

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

Safety Precautions for Installing and Relocating the Unit:

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



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

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

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

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

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

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

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

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

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

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

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

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

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

Poor connections may lead to electric shock or fire.

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

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

Safety Precautions for Refrigerant

•To realize the function of the air conditioner unit, a special refrigerant circulates in the system. The used refrigerant is the fluoride R32,which is specially cleaned. The refrigerant is flammable and inodorous. Furthermore, it can leads to explosion under certain conditions. But the flammability of the refrigerant is very low. It can be ignited only by fire.

•Compared to common refrigerants, R32 is a nonpolluting refrigerant with no harm to the ozonosphere. The influence upon the greenhouse effect is also lower. R32 has got very good thermodynamic features which lead to a really high energy efficiency. The units therefore need a less filling.

WARNING:

•Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacture. Should repair be necessary,contact your nearest authorized

Service Centre. Any repairs carried out by unqualified

personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (for example:open flames , an operating gas appliance or an operating electric heater.)

•Do not pierce or burn.

•Appliance shall be installed, operated and stored in a room with a floor area larger than Xm².

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

•Read specialists manual.



Safety Operation of Flammable Refrigerant

Qualification requirement for installation and maintenance man

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

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

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

Installation notes

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

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

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

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

•Leak test is a must after installation.

Charge amount (kg)	floor location	window mounted	wall mounted	ceiling mounted
≤1.2	/	/	/	/
1.3	14.5	5.2	1.6	1.1
1.4	16.8	6.1	1.9	1.3
1.5	19.3	7	2.1	1.4
1.6	22	7.9	2.4	1.6
1.7	24.8	8.9	2.8	1.8
1.8	27.8	10	3.1	2.1
1.9	31	11.2	3.4	2.3
2	34.3	12.4	3.8	2.6
2.1	37.8	13.6	4.2	2.8
2.2	41.5	15	4.6	3.1
2.3	45.4	16.3	5	3.4
2.4	49.4	17.8	5.5	3.7
2.5	53.6	19.3	6	4

table a - Minimum room area (m²)

Maintenance notes

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

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

•Check whether the maintenance area is well-ventilated.

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

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

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

•Check whether the appliance mark is in good condition.

- Replace the vague or damaged warning mark.

Welding

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

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

f. Carry back to the service spot for welding

•Make sure that there isnt any naked flame near the outlet of the vacuum pump and its well-ventilated.

•The refrigerant should be recycled into the specialized storage tank.

Filling the refrigerant

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

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

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

•Dont overfilling.

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

Safety instructions for transportation and storage

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

•No fire source and smoking.

•According to the local rules and laws.

Main Tools for Installation and Maintenance



8.1 Installation Dimension Diagram



Installation Procedures



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

8.2 Installation Parts-checking

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

∧ Note:

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

8.3 Selection of Installation Location

1. Basic Requirement:

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

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

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

(3) The place near coast area.

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

(5) The place with sulfureted gas.

(6) Other places with special circumstances.

(7) The appliance shall nost be installed in the laundry.

(8) It's not allowed to be installed on the unstable or motive base structure(such as truck) or in the corrosive environment (such as chemical factory).

2. Indoor Unit:

(1) There should be no obstruction near air inlet and air outlet.

(2) Select a location where the condensation water can be dispersed easily andwont affect other people.

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

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

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

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

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

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

3. Outdoor Unit:

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

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

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

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

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

8.4 Electric Connection Requirement

1. Safety Precaution

(1) Must follow the electric safety regulations when installing the unit.

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

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

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

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

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

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

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

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

2. Grounding Requirement:

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

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

(2) The yellow-green wire in air conditioner is grounding wire, which Can't be used for other purposes.

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

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

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

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

Model	Air switch capacity
07/09/12K	10A
18/24K	16A

8.5 Installation of Indoor Unit

1. Choosing Installation location

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

2. Install Wall-mounting Frame

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

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

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



3. Open piping hole

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

⚠́ Note:

• The wall panel is for illustrative purposes only, please refer to the actual installation.

• Please refer to the actual circumstances for the number of screws and the position of screws.

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

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



▲ Note:

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

4. Outlet Pipe

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

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



5. Connect the Pipe of Indoor Unit

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

(2) Pretightening the union nut with hand.

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

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





Refer to the following table for wrench moment of force:

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

6. Install Drain Hose

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

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



\land Note:

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

(2) The plastic expansion particles are not provided.

(As show in Fig.10)



7. Connect Wire of Indoor Unit

⚠ NOTICE:

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

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

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

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

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



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



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



Fig.13

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

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

8. Bind up Pipe

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

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

(3) Bind them evenly.

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





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▲ Note:

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

9. Hang the Indoor Unit

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

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

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



▲ Note:

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

8.6 Installation of Outdoor unit

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

(1) Select installation location according to the house structure.

(2) Fix the support of outdoor unit on the selected location with expansion screws.

⚠ Note:

(1) Take sufficient protective measures when installing the outdoor unit.

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

(3) The outdoor unit should be installed at least 3cm above the floor in order to install drain joint. (for the model with heating tube, the installation height should be no less than 20cm.)(As show in Fig.18)

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



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

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

(As show in Fig.19)

3. Fix Outdoor Unit

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

(As show in Fig.20)



4. Connect Indoor and Outdoor Pipes

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

▲ Note:

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



(2) Only applicable for some models.

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



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

Refer to the following table for wrench moment of force:

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

5. Connect Outdoor Electric Wire

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



▲ Note:

(1) The wiring board is for reference only, please refer to the actual one.

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

▲ Note:

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

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

6. Neaten the Pipes

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

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



\land Note:

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

(2) Slant the drain hose slightly downwards. The drain hose Can't be curved, raised and fluctuant, etc.(As show in Fig.26)

(3) The water outlet Can't be placed in water in order to drain smoothly.(As show in Fig.27)



8.7 Vacuum Pumping and Leak Detection

1. Use Vacuum Pump

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

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

(3) Open the piezometer completely and operate for 10-15min to check if the pressure of piezometer remains in -0.1MPa.

(4) Close the vacuum pump and maintain this status for 1-2min to check if the pressure of piezometer remains in -0.1MPa. If the pressure decreases, there may be leakage.

(5) Remove the piezometer, open the valve core of liquid valve and gas valve completely with inner hexagon spanner.

(6) Tighten the screw caps of valves and refrigerant charging vent.(As show in Fig.28)

(7) Reinstall the handle.



2. Leakage Detection

(1) With leakage detector:

Check if there is leakage with leakage detector.

(2) With soap water:

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

8.8 Check after Installation and Test operation

1. Check after Installation

Check according to the following requirement after finishing installation.

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

2. Test Operation

(1) Preparation of test operation

- The client approves the air conditioner installation.
- Specify the important notes for air conditioner to the client.
- (2) Method of test operation
- Put through the power, press ON/OFF button on the remote controller to start operation.
- Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.
- \bullet If the ambient temperature is lower than 16 $~\,^{\circ}\!\!\mathbb{C}\,$, the air conditioner Can't start cooling.

9.1 Error Code List

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

Outdoor ambient temperature sensor is open/short circuited	F3	During cooling and drying operating, compressor stops while indoor fan operates; During heating operation, the complete unit will stop operation	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
Outdoor condenser temperature sensor is open/short circuited	F4	During cooling and drying operation, compressor stops while indoor fan will operate; During heating operation, the complete unit will stop operation.	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
Outdoor discharge temperature sensor is open/short circuited	F5	During cooling and drying operation, compressor will sop after operating for about 3 mins, while indoor fan will operate; During heating operation, the complete unit will stop after operating for about 3 mins.	 Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) The head of temperature sensor hasnt been inserted into the copper tube
Limit/decrease frequency due to overload	F6	All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)
Decrease frequency due to overcurrent	F8	All loads operate normally, while operation frequency for compressor is decreased	The input supply voltage is too low; System pressure is too high and overload
Decrease frequency		All loads aparata parmally while aparation	Quarland or temperature is the high: Defrigerant is
due to high air	F9	All loads operate normally, while operation	Overload of temperature is too high; Reingerant is
discharge		frequency for compressor is decreased	
Limit/decrease frequency due to antifreezing	FH	All loads operate normally, while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low
Voltage for DC bus- bar is too high	РН	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)
Voltage of DC bus-bar is too low	PL	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	 Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 150VAC, turn on the unit after the supply voltage is increased to the normal range. If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)
Compressor Min frequence in test state	P0		Showing during min. cooling or min. heating test
Compressor rated frequence in test state	P1		Showing during nominal cooling or nominal heating test
Compressor maximum frequence in test state	P2		Showing during max. cooling or max. heating test
Compressor			
intermediate	P3		Showing during middle cooling or middle heating test
frequence in test state		During apoling and drying operation	
Overcurrent protection of phase current for compressor	P5	compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
Charging malfunction of capacitor	PU	During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Refer to the part three—charging malfunction analysis of capacitor
			1.Main board of indoor unit is damaged;
Malfunction of detecting plate(WIFI)	JF	Loads operate normally, while the unit can't be normally controlled by APP.	2.Detection board is damaged;3.The connection between indoor unit and detection board is not good;

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

Malfunction of phase		During cooling and drying operation, compressor will stop while indoor fan will	
current detection	U1	operate;	Replace outdoor control panel AP1
circuit for compressor		During heating operation, the complete	
		unit will stop	
Malfunction of voltage		During cooling and drying operation,	
dramping for DC	110	compressor will stop while indoor fan will	Currente verteren in unneterte
aropping for DC	03	operate;	Supply voltage is unstable
busbar		During neating operation, the complete	
		Unit will stop	
Malfunction of		compressor will stop while indoor fan will	
complete units current	U5	operate.	Theres circuit malfunction on outdoor units control panel
detection	00	During heating operating the complete	AP1, please replace the outdoor units control panel AP1.
		unit will stop operation.	
Cold air			
prevention	E9		Not the error code. It's the status code for the operation.
protection			
Refrigerant			Refrigerant recovery. The Serviceman operates it for
recovery	Fo		maintenance
mode			
	oE	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 (eg: less than-20°C or more than 60°C for cooling;
Undefined			more than 30°C for heating);
outdoor unit			2. Failure startup of compressor?
error			3. Are wires of compressor not connected tightly?
			4. Is compressor damaged?
			5. Is main board damaged?

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.

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

4. Sensor open or short circuit

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

5. Compressor over load protection

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

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

6. System malfunction

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

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

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

7. IPM module protection

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

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


9.2 Procedure of Troubleshooting

•Indoor unit:

1. Malfunction of Temperature Sensor F1, F2

Main detection points:

- Is the wiring terminal between the temperature sensor and the controller loosened or poorly contacted?
- Is there short circuit due to trip-over of the parts?
- Is the temperature sensor broken?



2. Malfunction of Blocked Protection of IDU Fan Motor H6

Main detection points:

- SmoothlyIs the control terminal of PG motor connected tightly?
- SmoothlyIs the feedback interface of PG motor connected tightly?
- The fan motor can't operate?
- The motor is broken?

• Detectioncircuit of the mainboard is defined abnormal?



3. Malfunction of Protection of Jumper Cap C5

Main detection points:

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



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

Main detection points:

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



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



6. Malfunction of detecting plate(WIFI) JF



•Outdoor unit:

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

Main detection point:

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



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

Main detection point:

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



3.IPM protection, phase current overcurrent (the control board as below indicates the control board of outdoor unit) H5/P5

Mainly detect: (1) Compressor COMP terminal (2) voltage of power supply (3) compressor (4) Refrigerant-charging volume (5) air outlet and air inlet of outdoor/indoor unit **Troubleshooting:** Turn on the unit after energization Check the connection Whether IPM between the control board protection occurs after the unit has and the compressor by operated for a while? referring to the electric wiring diagram Check whether wires Whether Correctly connect the wires of of compressor (UVW) are connected the voltage between compressor according to the terminal L and terminal N electric wiring diagram, and correctly of XT is within 210AVC~ then turn on the unit 250VAC? Measure the resistance value among three terminals (UVW) of compressor with a resistance Check the power , measuring meter. Whether IPM supply voltage and protection occurs after the unit has make the power voltage operated for a while? resume to the range of 210VAC~250VAC Whether the resistance value of three terminals are almost the same. 1. Whether the heat exchangers of indoor unit and outdoor unit are Measure the resistance dirty? Whether the radiation is affected because the unit is between three terminals (UVW) covered by the objects? of compressor and the copper pipe 2. When indoor fan and outdoor unit are operate normally? with resistance measuring meter 3. Whether the system pressure is too high? 4. Whether the pressure is because there's too much refrigerant? Whether the resistance value is more than 500ohm? Correct it one by one Whether there's according to the Service abnormal phenomenons Manual, and then turn on described as above? the unit. Replace the compressor N Whether the unit can operate normally? Ν Replace control board

End

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

Mainly detect:

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



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

Mainly detect:

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



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

Mainly detect:

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



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

Mainly detect:

•Is there any damage for the indoor unit mainboard communication circuit? Is communication circuit damaged?

•Detect the indoor and outdoor units connection wire and indoor and outdoor units inside wiring is connect well or not, if is there any

damage?

Fault diagnosis process:



8. Malfunction of Overcurrent Protection

Main detection points:

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





9.3 Troubleshooting for Normal Malfunction

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

2. Poor Cooling (Heating) for Air Conditioner

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting	
Set temperature is improper	Observe the set temperature on remote controller	Adjust the set temperature	
Rotation speed of the IDU fan motor is set too low	Small wind blow	Set the fan speed at high or medium	
Filter of indoor unit is blocked	Check the filter to see its blocked	Clean the filter	
Installation position for indoor unit and outdoor unit is improper	Check whether the installation postion is proper according to installation requirement for air conditioner	Adjust the installation position, and install the rainproof and sunproof for outdoor unit	
Refrigerant is leaking	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Units pressure is much lower than regulated range	Find out the leakage causes and deal with it. Add refrigerant.	
Malfunction of 4-way valve	Blow cold wind during heating	Replace the 4-way valve	
Malfunction of capillary	Discharged air temperature during cooling is higher than normal discharged wind temperature; Discharged air temperature during heating is lower than normal discharged wind temperature; Unitt pressure is much lower than regulated range. If refrigerant isnt leaking, part of capillary is blocked	Replace the capillary	
Flow volume of valve is insufficient	The pressure of valves is much lower than that stated in the specification	Open the valve completely	
Malfunction of horizontal louver	Horizontal louver 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	Check the wiring status according to circuit	Connect wires according to wiring diagram to make
connection	diagram	sure all wiring terminals are connected firmly
Capacity of 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	Check the wiring status according to circuit	Connect wires according to wiring diagram to make
connection	diagram	sure all wiring terminals are connected firmly
	Measure the capacity of fan capacitor with an	
Capacity of compressor is	universal meter and find that the capacity is out of	Replace the compressor capacitor
damaged	the deviation range indicated on the nameplate of	
	fan capacitor.	
Power voltage is a little low or high	Use universal meter to measure the power supply	Suggest to equip with voltage regulator
I ower voltage is a little low of right	voltage. The voltage is a little high or low	
Coil of compressor is burnt out	Use universal meter to measure the resistance	Repair or replace compressor
	between compressor terminals and its 0	
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 theres abnormal sound	Theres the sound of "PAPA"	Normal phenomenon. Abnormal sound will disappear after a few minutes.
When turn on or turn off the unit, heres abnormal sound due to flow Water-running sound can be heard of refrigerant inside air conditioner		Normal phenomenon. Abnormal sound will disappear after a few minutes.
Foreign objects inside the indoor unit or therere parts touching together inside the indoor unit	Theres abnormal sound fro indoor unit	Remove foreign objects. Adjust all parts position of indoor unit, tighten screws and stick damping plaster between connected parts
Foreign objects inside the outdoor unit or therere parts touching together inside the outdoor unit	Theres abnormal sound fro outdoor unit	Remove foreign objects. Adjust all parts position of outdoor unit, tighten screws and stick damping plaster between connected parts
Short circuit inside the magnetic coil	During heating, the way valve has abnormal electromagnetic sound	Replace magnetic coil
Abnormal shake of compressor	Outdoor unit gives out abnormal sound	Adjust the support foot mat of compressor, tighten the bolts
Abnormal sound inside the compressor	Abnormal sound inside the compressor	If add too much refrigerant during maintenance, please reduce refrigerant properly. Replace compressor for other circumstances.

10.1 Indoor Unit

AAA/AAB



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

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

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



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

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

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

10.2 Outdoor Unit

GWH07AGA-K6DNA1C/O GWH09AGA-K6DNA1C/O GWH07AGA-K6DNA1A/O



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

NO.	Description
1	Left Side Plate
2	Motor Support
3	Top Cover Sub-Assy
4	Top Cover
5	Condenser Sub-Assy
6	Sponge(Condenser)
7	Condenser Assy
8	Electric Box Assy
9	Electric Box
10	Temp Sensor Sleeving
11	Main Board
12	Terminal Board
13	Silencer
14	Earthing Plate Sub-Assy
15	Handle
16	Valve Support Block
17	Right Side Plate
18	Cut off Valve 1/4
19	Valve Support
20	Sensor Insert
21	Compressor and Fittings
22	4-Way Valve Assy
23	Chassis Sub-Assy
24	Cabinet
25	Front Grill
26	Axial Flow Fan
27	Fan Motor

Above data is subject to change without notice.

GWH12AGB-K6DNA1B/O



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

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

Above data is subject to change without notice.

GWH18ALD-K6DNA1A/O GWH12AGBXB-K6DNA4C/O



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

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

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



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

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

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

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

11.1 Removal Procedure of Indoor Unit



Caution: discharge the refrigerant completely before removal.

Step		Procedure
1.Remove filter		Panel
a	Open the panel.	
		Clasps Clasps Left filter and right filer
2.Rem	ove horizontal louver	
	Push out the axile bush on horizontal louver. Bend the horizontal louver with hand and then separate the horizontal louver from the crankshaft of step motor to remove it.	Arile bush Arile bush









11.2 Removal Procedure of Outdoor Unit

GWH07AGA-K6DNA1C/O GWH09AGA-K6DNA1C/O GWH07AGA-K6DNA1A/O



Caution: discharge the refrigerant completely before removal.







Step		Procedure
10. Re	move isolation sheet	
	Remove the screws fixing the isolation sheet and then remove the isolation sheet.	isolation sheet
11. Re	emove compressor	4-way valve
а	Unsolder the welding joint connecting the capillary, valves and the outlet pipe of condenser to remove the capillary. Do not block the capillary with welding slag during unsoldering.	
b	Remove the 2 screws fixing the gas valve and unsolder the welding joint between the gas valve and the air- return pipe to remove the gas valve. (NOTE: Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature). Remove the 2 screws fixing the liquid valve and unsolder the welding joint connecting the liquid valve to the Y-type pipe to remove the liquid valve.	Cut-off valve
c	Unsolder pipes connecting with compressor.	compressor nuts
d	Remove the 3 foot nuts on the compressor and then remove the compressor.	
GWH12AGB-K6DNA1B/O







Step		Procedure
10. Re	emove isolation sheet and capillary sub-assy	
	Remove the screws fixing the isolation sheet and then remove the isolation sheet.	
	Remove the terminals of the capillary sub- assy(electronic expansion valve) and rotate to remove the capillary sub-assy(electronic expansion valve). Unsolder the welding joint connecting the capillary sub- assy(electronic expansion valve) and then remove the capillary sub-assy(electronic expansion valve).	capillary Sub-assy isolation sheet electric expansion valve sub-Assy
11. R	emove compressor	
а	Unsolder the welding joint connecting the capillary, valves and the outlet pipe of condenser to remove the capillary. Do not block the capillary with welding slag during unsoldering.	4-way valve
b	Remove the 2 screws fixing the gas valve and unsolder the welding joint between the gas valve and the air- return pipe to remove the gas valve. (NOTE: Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature). Remove the 2 screws fixing the liquid valve and unsolder the welding joint connecting the liquid valve to the Y-type pipe to remove the liquid valve.	liquid valve gas valve
С	Unsolder pipes connecting with compressor.	compressor
d	Remove the 3 foot nuts on the compressor and then remove the compressor.	

GWH18ALD-K6DNA1A/O GWH12AGBXB-K6DNA4C/O



Caution: discharge the refrigerant completely before removal.







Step		Procedure
10. Re	move axial flow fan	
	Remove the nut on the fan and then remove the axial flow fan.	A rate flow far
11. Rer	nove motor	
	Remove the screws fixing the motor and then remove the motor.	motor
12. Re	move motor support	
	Remove the screws fixing the motor support and lift the motor support to remove it.	weter support



GWH24QDXE-K6DNB6A/O





Step Procedure o_____0 4. Remove top cover top cover Remove connection screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.

5. Remove grille

Remove connection screws between the front grille and





6. Remove front panel

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



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

motor support

Step Procedure 10. Remove Electric Box Assy Image: Comparison of the state of t

Electric Box Assy

11. Remove isolation sheet

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



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

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





Appendix

Appendix 1: Reference Sheet of Celsius and Fahrenheit

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

Set temperature

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

Ambient temperature

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

Appendix 2: Configuration of Connection Pipe

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

2.Min length of connection pipeFor the unit with standard connection pipe of 5m, there is no limitation for themin length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.

3.Max. length of connection pipe and max. high difference.(More details please refer to the specifications.)

4. The additional refrigerant oil and refrigerant charging required after prolonging connection pipe

• After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.

• The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

• Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.

• Additional refrigerant charging amount = prolonged length of liquid pipe X additional refrigerant charging amount per meter

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

Appendix

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.











Installation and Maintenance

B:Remove the burrs

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

C:Put on suitable insulating pipe.

D:Put on the union nut

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

E:Expand the port

• Expand the port with expander.

▲ Note:

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

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

F:Inspection

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

Appendix

Appendix 4: List of Resistance for Temperature Sensor

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

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

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

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

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

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



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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.