



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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Part | : Technical Information

1. Summary

Indoor Unit:

GWH09AAB-K6DNA3A/I GWH12AAB-K6DNA3A/I

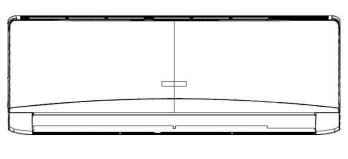
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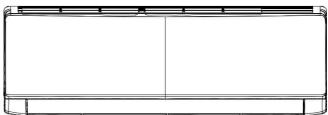
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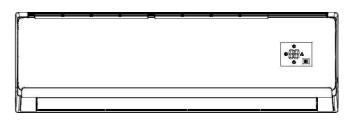
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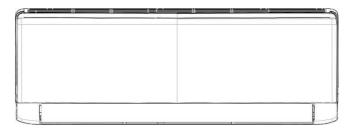
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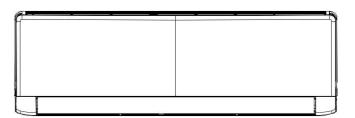
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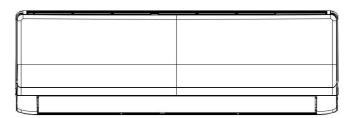






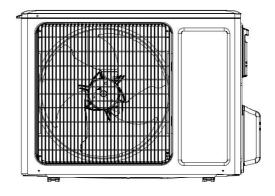




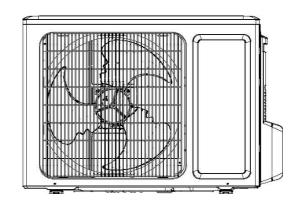


Outdoor Unit:

GWH12AAB-K6DNA3A/O(LC)



GWH09AAB-K6DNA3A/O(LC)



Remote Controller:

YAW1F5(WiFi)



Model List:

No	Model	Product code	Indoor model	Indoor product code	Outdoor model	Outdoor product code	Remote Controller
1	GWH09AAB-K6DNA3A	CB478000200	GWH09AAB-K6DNA3A/I	CB478N00200		•	
2	GWH09AAB-K6DNA5A	CB488000800	GWH09AAB-K6DNA5A/I	CB488N00800			
3	GWH09AAB-K6DNA4A	CB479000800	GWH09AAB-K6DNA4A/I	CB479N00800			
4	GWH09AAB-K6DNA4A	CB479000801	GWH09AAB-K6DNA4A/I	CB479N00801			
5	GWH09AAB-K6DNA1B	CB476001400	GWH09AAB-K6DNA1B/I	CB476N01400	GWH09AAB-K6DNA3A/O	CB478W00200	
6	GWH09AAB-K6DNA2B	CB477000900	GWH09AAB-K6DNA2B/I	CB477N00900			
7	GWH09AAB-K6DNA1A	CB476000901	GWH09AAB-K6DNA1A/I	CB476N00901			YAW1F5
8	GWH09AAB-K6DNA2A	CB477001500	GWH09AAB-K6DNA2A/I	CB477N01500			(WiFi)
9	GWH12AAB-K6DNA3A	CB478000100	GWH12AAB-K6DNA3A/I	CB478N00100			
10	GWH12AAB-K6DNA4A	CB479000500	GWH12AAB-K6DNA4A/I	CB479N00500			
11	GWH12AAB-K6DNA4A	CB479000501	GWH12AAB-K6DNA4A/I	CB479N005001			
12	GWH12AAB-K6DNA5A	CB488000900	GWH12AAB-K6DNA5A/I	CB488N00900	GWH12AAB-K6DNA3A/O	CB478W00100	
13	GWH12AAB-K6DNA1A	CB476000302	GWH12AAB-K6DNA1A/I	CB476N00302			
14	GWH12AAB-K6DNA2A	CB477001600	GWH12AAB-K6DNA2A/I	CB477N01600			
15	GWH12AAB-K6DNA2A	CB477001601	GWH12AAB-K6DNA2A/I	CB477N016001			

2. Specifications

2.1 Specification Sheet

Model			1.GWH09AAB-K6DNA3A 2.GWH09AAB-K6DNA5A 3.GWH09AAB-K6DNA4A 4.GWH09AAB-K6DNA1B 5.GWH09AAB-K6DNA2B 6.GWH09AAB-K6DNA1A 7.GWH09AAB-K6DNA2A
Product Code			1.CB478000200 2.CB488000800/CB479000801 3.CB479000800 4.CB476001400 5.CB477000900 6.CB476000901 7.CB477001500
_ Rated Voltage		V~	220-240
Power		Hz	50
Supply Rated Frequency Phases		112	1
Phases Power Supply Mode			Outdoor
Cooling Cap	•	W	2500
		W	
Heating Capa Cooling Pow	•	W	<u>2800</u> 781
Heating Pow		W	777
Cooling Pow	<u> </u>	A	3.99
Heating Pow		Α	3.74
Rated Input		W	1500
Rated Currer	nt	Α	6.3
Rated Heatin	ng Current	Α	6.9
Air Flow Volu	ume(SH/H/M/L/SL)	m ³ /h	550/500/430/300/-
Dehumidifyin	ng Volume	L/h	0.8
EER		W/W	3.20
COP		W/W	3.60
SEER		W/W	6.1
HSPF Application A		W/W m ²	/ 12-18
ripplication	Indoor Unit Model		1.GWH09AAB-K6DNA3A/I 2.GWH09AAB-K6DNA5A/I 3.GWH09AAB-K6DNA4A/I 4.GWH09AAB-K6DNA1B/I 5.GWH09AAB-K6DNA2B/I 6.GWH09AAB-K6DNA1A/I 7.GWH09AAB-K6DNA2A/I
	Indoor Unit Product Code		1.CB478N00200 2.CB488N00800/CB479N00801 3.CB479N00800 4.CB476N01400 5.CB477N00900 6.CB476N00901 7.CB477N01500
	Fan Type		Cross-flow
	Diameter Length(DXL)	mm	Ф93Х580
	Fan Motor Cooling Speed(SH/H/M/L/SL)	r/min	1300/1200/1100/850/-
	Fan Motor Heating Speed(SH/H/M/L/SL)	r/min	1250/1150/1050/900/-
	Output of Fan Motor	W	20
	Fan Motor RLA	Α	0.22
	Fan Motor Capacitor	μF	1
	Input of Heater	W	1
Indoor Unit	Evaporator Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Ф5
	Row-fin Gap	mm	2-1.4
	Coil Length (LXDXW)	mm	584X22.8X266.7
	Swing Motor Model		MP24AN
	Output of Swing Motor	W	1.5
	Fuse	Α	3.15
	Sound Pressure Level (SH/H/M/L/SL)	dB (A)	40/37/35/28/-
	Sound Power Level (SH/H/M/L/SL)	dB (A)	55/49/47/40/-
	Dimension (WXHXD)	mm	773X250X185
	Dimension of Carton Box (LXWXH)	mm	817X306X244
	Dimension of Package (LXWXH)	mm	822X322X255
	Net Weight	kg	8.5
	Gross Weight	kg	9.5

Technical Information

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	Model of Outdoor Unit		GWH09AAB-K6DNA3A/O
	Product Code of Outdoor Unit		CB478W00200
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXF-B096zE190A
	Compressor Oil		FW68DA
	Compressor Type		Rotary
	L.R.A.	Α	20
	Compressor RLA	Α	4.21
	Compressor Power Input	W	943
	Overload Protector		1NT11L-6233 HPC115/95U1 KSD115°C
	Throttling Method		Capillary
	Operation Temp	∘C	16~30
	Ambient Temp (Cooling)	°C	-15~43
	Ambient Temp (Heating)	°С	-15~24
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	1-1.4
	Coil Length (LXDXW)	mm	710X19.05X508
	Fan Motor Speed	rpm	900
	Output of Fan Motor	W	30
Outdoor Unit	Fan Motor RLA	Α	0.36
	Fan Motor Capacitor	μF	1
	Air Flow Volume of Outdoor Unit	m ³ /h	1600
	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	MPa	2.5
	the Suction Side		
	Sound Pressure Level (H/M/L)	dB (A)	52/-/-
	Sound Power Level (H/M/L)	dB (A)	60/-/-
	Dimension (WXHXD)	mm	782X540X320
	Dimension of Carton Box (LXWXH)	mm	820X355X580
	Dimension of Package (LXWXH)	mm	823X358X595
	Net Weight	kg	29
	Gross Weight	kg	31.5
	Refrigerant		R32
	Refrigerant Charge	kg	0.6
	Length	m	5
	Gas Additional Charge	g/m	20
Connection	Outer Diameter Liquid Pipe Outer Diameter Gas Pipe	mm mm	<u>Ф6</u> Ф9.52
Pipe	Max Distance Height	m	10
	Max Distance Length	m	15
1	Note: The connection pipe applies metric diame		10

Model			1.GWH12AAB-K6DNA3A 2.GWH12AAB-K6DNA4A 3.GWH12AAB-K6DNA5A 4.GWH12AAB-K6DNA1A 5.GWH12AAB-K6DNA2A
Product Code			1.CB478000100 2.CB479000500/CB479000501 3.CB488000900 4.CB476000302 5.CB477001600/CB477001601
D	Rated Voltage	V~	220-240
Power	Rated Frequency	Hz	50
Supply	Phases		1
Power Suppl	•		Outdoor
Cooling Cap		W	3200
Heating Cap	-	W	3400
Cooling Pow	•	W	997
Heating Pow		W	941
Cooling Pow	•	Α	4.5
Heating Pow	er Current	Α	4.4
Rated Input		W	1500
Rated Curre	nt	Α	7.2
	ume(SH/H/M/L/SL)	m ³ /h	550/480/410/290/-
Dehumidifyir		L/h	1.4
EER		W/W	3.21
COP		W/W	3.61
SEER		W/W	6.1
HSPF		W/W	
Application A			16-24
	Indoor Unit Model	m ²	1.GWH12AAB-K6DNA3A/I 2.GWH12AAB-K6DNA4A/I 3.GWH12AAB-K6DNA5A/I 4.GWH12AAB-K6DNA1A/I 5.GWH12AAB-K6DNA2A/I
	Indoor Unit Product Code		1.CB478N00100 2.CB479N00500/CB479N00501 3.CB488N00900 4.CB476N00302 5.CB477N01600/CB477N01601
	Fan Type		Cross-flow
	Diameter Length(DXL)	mm	Ф93Х580
	Fan Motor Cooling Speed(SH/H/M/L/SL)	r/min	1350/1200/1100/850/-
	Fan Motor Heating Speed(SH/H/M/L/SL)	r/min	1350/1200/1100/900/-
	Output of Fan Motor	W	20
	Fan Motor RLA	Α	0.22
	Fan Motor Capacitor	μF	1
	Input of Heater	W	
Indoor Unit	Evaporator Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Ф5
	Row-fin Gap	mm	2-1.4
	Coil Length (LXDXW)	mm	584X22.8X266.7
	Swing Motor Model		MP24AN
	Output of Swing Motor	W	1.5
	Fuse	Α	3.15
		dB (A)	42/37/34/28/-
	Sound Power Level (SH/H/M/L/SL)	dB (A)	55/49/46/40/-
	Dimension (WXHXD)	mm	773X250X185
	Dimension of Carton Box (LXWXH)	mm	817X306X244
	Dimension of Package (LXWXH)	mm	822X322X255
	Net Weight	kg	8.5
	Gross Weight	kg	9.5

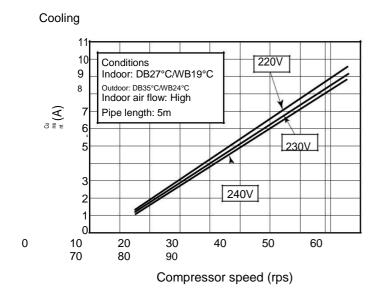
Technical Information

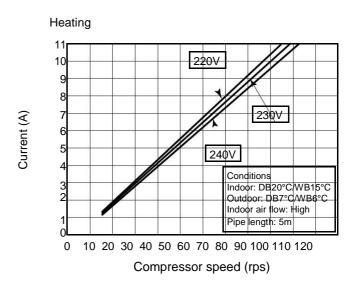
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Model of Outdoor Unit		GWH12AAB-K6DNA3A/O (LC)
Product Code of Outdoor Unit		CB478W00100
Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD
Compressor Model		QXF-B096zE190A
Compressor Oil		FW68DA
Compressor Type		Rotary
L.R.A.	А	20
Compressor RLA	A	4.21
Compressor Power Input	W	943
Overload Protector		1NT11L-6233 HPC115/95U1 KSD115℃
Throttling Method		Capillary
Operation Temp	∘C	16~30
Ambient Temp (Cooling)	°С	-15~43
Ambient Temp (Heating)	∘C	-15~24
Condenser Form		Aluminum Fin-copper Tube
Pipe Diameter	mm	Ф7.94
Rows-fin Gap	mm	1-1.4
Coil Length (LXDXW)	mm	731X19.05X550
Fan Motor Speed	rpm	900
Output of Fan Motor	W	30
Outdoor Unit Fan Motor RLA	А	0.36
Fan Motor Capacitor	μF	1
Air Flow Volume of Outdoor Unit	m ³ /h	2200
Fan Type	111 /11	Axial-flow
Fan Diameter	mm	Ф438
Defrosting Method	111111	Automatic Defrosting
Climate Type		T1
Isolation		
Moisture Protection		IPX4
Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3
Permissible Excessive Operating Pressure for the Suction Side	MPa	2.5
Sound Pressure Level (H/M/L)	dB (A)	52/-/-
Sound Power Level (H/M/L)	dB (A)	62/-/-
Dimension (WXHXD)	mm	842X596X320
Dimension of Carton Box (LXWXH)	mm	878X360X630
Dimension of Package (LXWXH)	mm	881X363X645
Net Weight	kg	31
Gross Weight	kg	34
Refrigerant		R32
Refrigerant Charge	kg	0.65
Length	m	5
Gas Additional Charge	g/m	20
Outer Diameter Liquid Pipe	mm	Ф6
Connection Outer Diameter Gas Pipe	mm	Ф9.52
Pipe Max Distance Height	m	10
Max Distance Length	m	20
Note: The connection pipe applies metric diame	eter.	

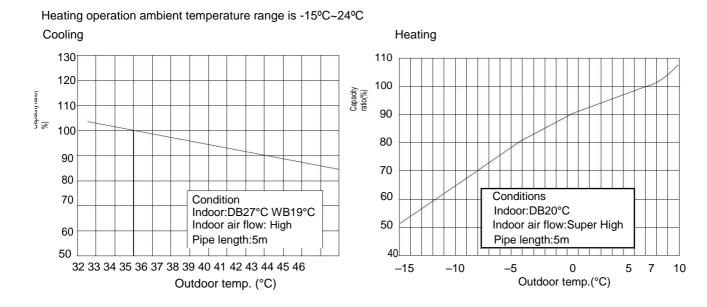
The above data is subject to change without notice; please refer to the nameplate of the unit.

2.2 Operation Characteristic Curve





2.3 Capacity Variation Ratio According to Temperature



2.4 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

Rated (condition(°C) (D	cooling DB/WB)	Model	Pressure of gas pipe connecting indoor and outdoor unit			Fan speed of indoor unit	Fan speed of outdoor unit	revolution
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)			(rps)
07/40	05/04	00/40/	0.0 4.4	12 to 15	65 to 38	TUDDO	1.101-	49
27/19	27/19 35/24 09/12K		0.8 ~ 1.1	11 to 14	64 to 37	TURBO	High	60

Heating:

	Rated cooling Model		Pressure of gas pipe connecting indoor and outdoor unit linet and outlet pipe temperature of he exchanger		re of heat	Fan speed of Fan speed of indoor unit outdoor unit		revolution
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)	1		(rps)
20/	7/0	00/401/	20 20	35 to 63	2 to 5	TUDDO	Llimb	59
20/-	20/- 7/6 09/12K		2.8 ~ 3.2	35 to 65	2 to 5	TURBO	High	67

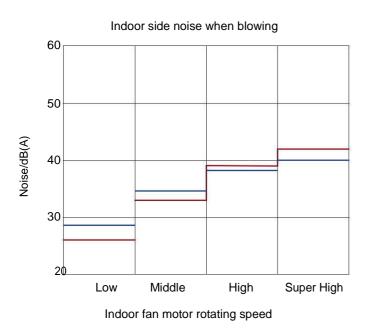
Instruction:

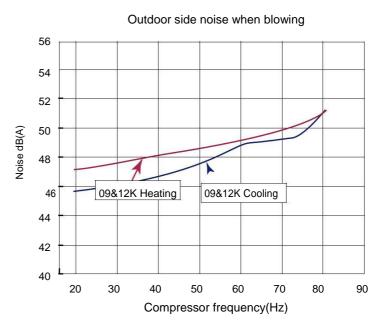
T1: Inlet and outlet pipe temperature of evaporator

T2: Inlet and outlet pipe temperature of condenser

P: Pressure at the side of big valve Connection pipe length: 5 m.

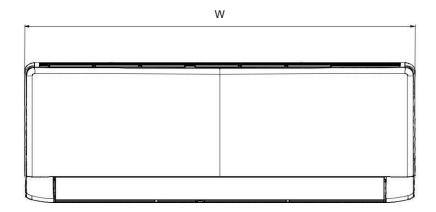
2.5 Noise Curve

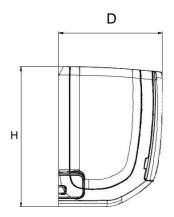


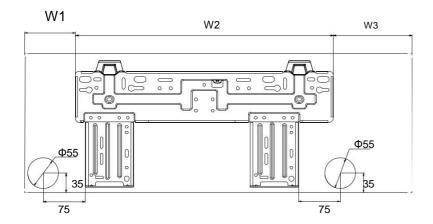


3. Outline Dimension Diagram

3.1 Indoor Unit







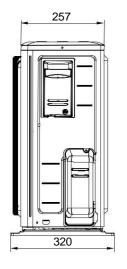
Unit:mm

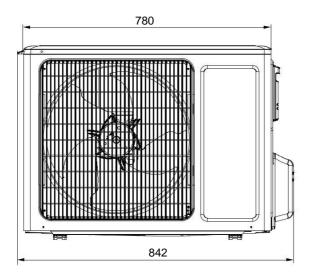
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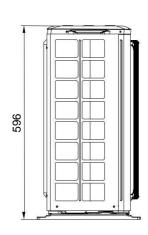
Models	W	Н	D	W1	W2	W3
09/12K	773	250	185	131	462	180

3.2 Outdoor Unit

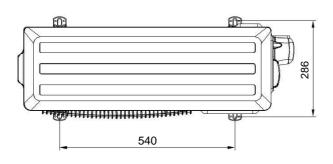
12K



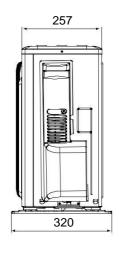


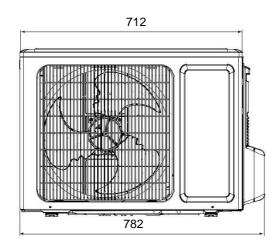


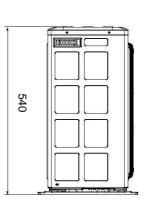
Unit:mm



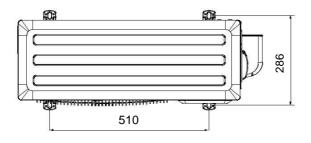
09K





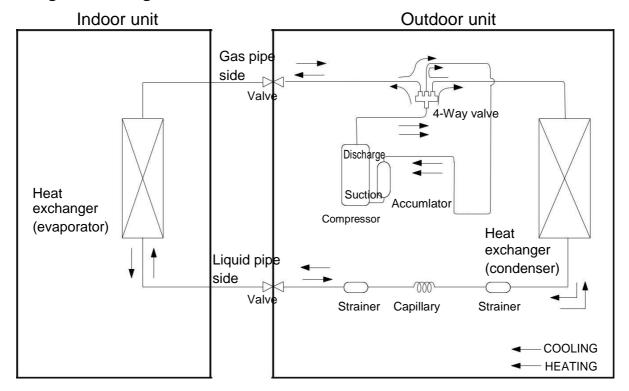


Unit:mm



4. Refrigerant System Diagram

Cooling and heating model



Connection pipe specification: Liquid pipe:1/4" (6mm) Gas pipe:3/8" (9.52mm)

Technical Information

11

5. Electrical Part

5.1 Wiring Diagram

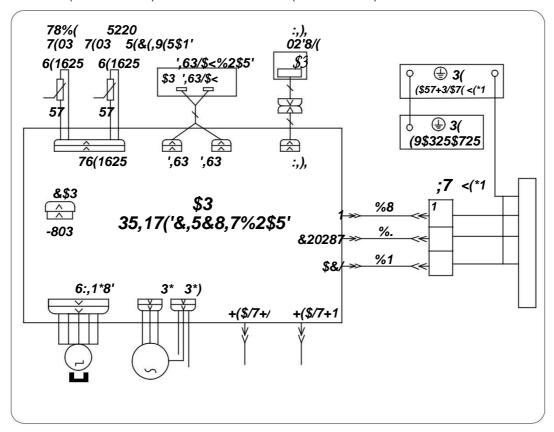
Instruction

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

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

• Indoor Unit

09/12K except GWH09AAB-K6DNA1A/I GWH12AAB-K6DNA1A/I GWH09AAB-K6DNA4A/I(CB479N00801) GWH12AAB-K6DNA4A/I(CB479N00501)



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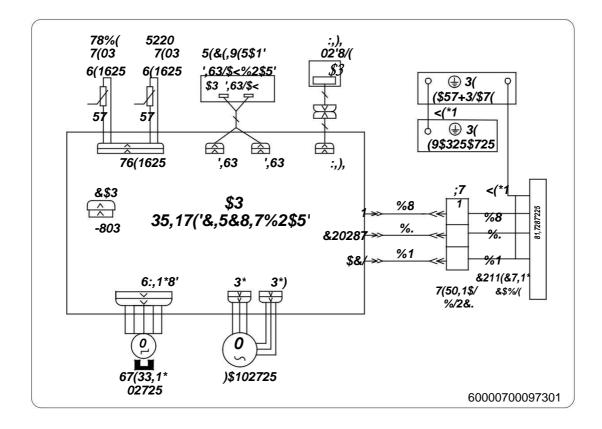
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600007000973

12

GWH09AAB-K6DNA1A/I GWH12AAB-K6DNA1A/I GWH09AAB-K6DNA4A/I(CB479N00801) GWH12AAB-K6DNA4A/I(CB479N00501) GWH09AAB-K6DNA2A/I GWH12AAB-K6DNA2A/I

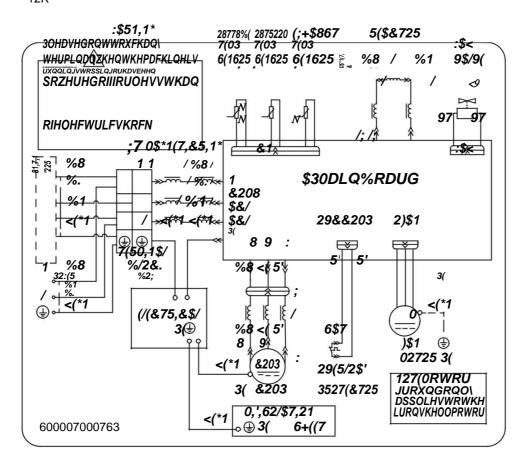


Technical Information

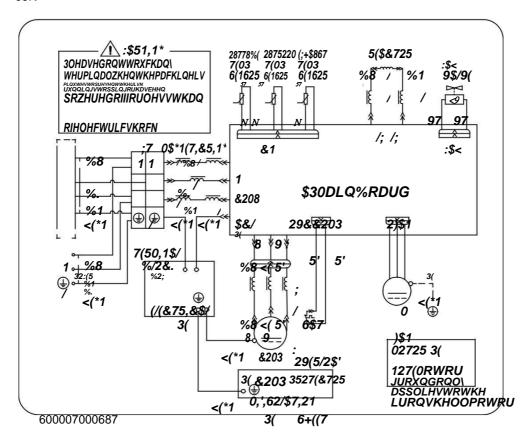
13

Outdoor Unit

12K



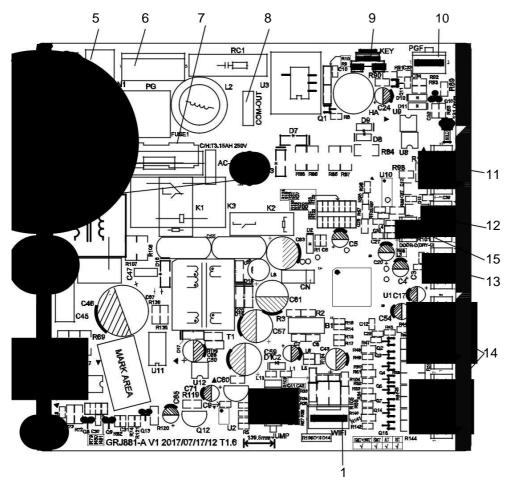
09K



5.2 PCB Printed Diagram

Indoor Unit

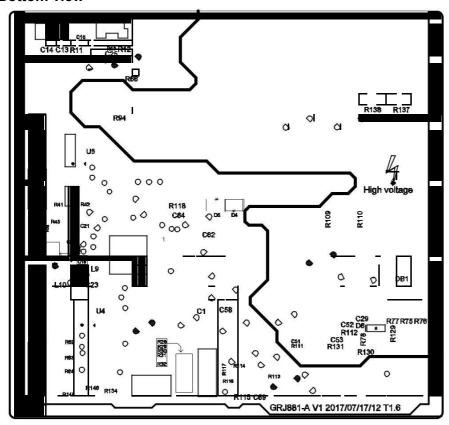
• Top view



No.	Name
_	
1	Wifi interface
2	Interface of health function live wire
3	Live wire interface
4	Interface of health function neutral wire(only for the model with this function)
5	Neutral wire interface
6	Fan motor interface of PG
7	Fuse
8	Communication interface
9	Auto button
10	nterface of PG feedback interface
11	Interface of up&down swing motor
12	Wired controller(only for the model
	with this function)
13	Interface of temperature sensor
14	Display interface
15	Gateway interface

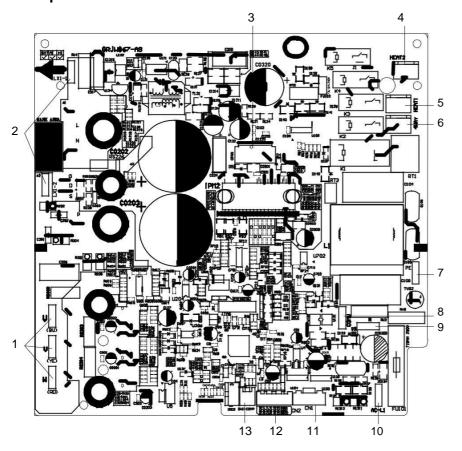
15

Bottom view



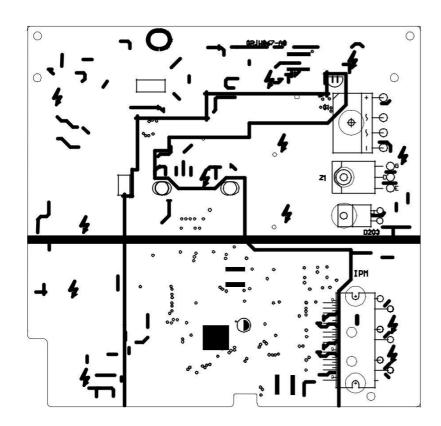
Outdoor Unit

• Top view



No.	Name
1	Compressor wiring terminal
2	Reactor wiring terminal
3	Outdoor fan wiring terminal
4	Terminal of chassis electric heater
5	Terminal of compressor electric heater
6	Terminal of 4-way valve
7	Grounding wire
8	Communication wire
9	Neutral wire
10	Live wire
11	Terminal of electronic expansion valve
12	Terminal of temperature sensor
13	Compressor overload terminal

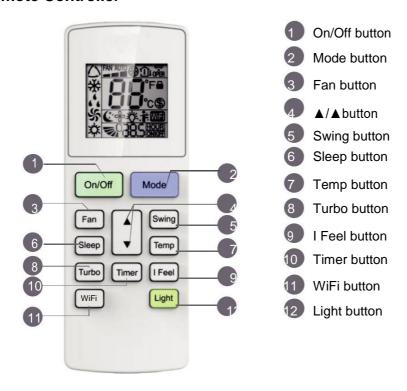
• Bottom view



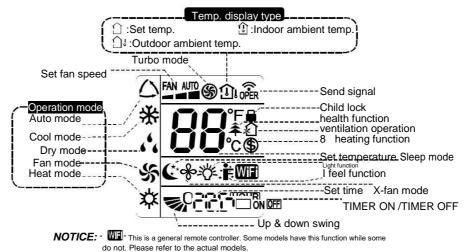
6. Function and Control

6.1 Remote Controller Introduction

Buttons on Remote Controller



Icon Display on Remote Controller



Operation introduction of remote controller

Note: "Will" This is a general remote controller. Some models have this function while some do not. Please refer to the actual models.

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. Operation indicator " is ON (red indicator, the colour is 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 "de" sound, which means the signal has been sent to the air conditioner.

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

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1. ON/OFF button

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

2. 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:

* Note: Only for models with heating function.



3. FAN button

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

* Note: Fan speed under dry mode is low speed.

X-FAN function: Hold fan speed button for 2s in COOL or DRY mode, the icond or 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.

4. ▲ / ▲ button

Press ▲ / ▲ button to increase/decreaseset temperature. In AUTO mode, set temperature is not adjustable.

● When setting TIMER ON, **⅀ℹKℍ℮℁௸Խ**ԹԺԱՆԵՐՀ, press "" or "ຼ " button to adjust time.

Press this button to set up & down swing angle.

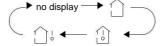
6. SLEEP button

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

Press this button again to cancel Sleep function. Under Fan and Auto modes, this function is unavailable.

7. TEMP button

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



Note:

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

8. TURBO button

Under COOL or HEAT mode, press this button to activate / deactivate the Turbo function.

9. I FEEL button

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

10. 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 " \(\Delta \) " button or " \(\Delta \) " button to adjust timer setting (time will change quickly if hoiding " \(\Delta \)" or " \(\Delta \)" 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.

11. WIFI button

Press " WiFi " button to turn on or turn off WiFi function. When WiFi function is turned on, the " WiFi " icon will be displayed on remote controller; Under status of unit off, press "MODE" and " WiFi " buttons simultaneously for 1s, WiFi module will restore to factory defaultset-

This function is only available for some models.

12. 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 lock

Press "▲" and " ▲ " buttons simultaneously 3s to lock or unlock the keypad. If the remote controller is locked, 🖨 s displayed. In this case, pressing any button, 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 and

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

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

Combination of "TEMP" and "TIMER" buttons: About 8 Heating Function

Press "TEMP" and "TIMER" simultaneously in HEAT mode to start 8

Heating Function Nixie tube on the remote controller displays " \$\square\$" and a



selected temperature of "8". (46 if Fahrenheit is adopted). Repeat the operation to quit the function.

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
- 3. Reinstall the cover of battery box.

signal sender reinstall Cover of battery box

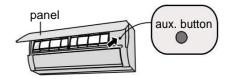
Emergency operation

If remote controller is lost or damaged, please use auxiliary button to turn on or turn off the air conditioner. The operation in details are as below:

As shown in the fig. Open panel ,press aux.button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.

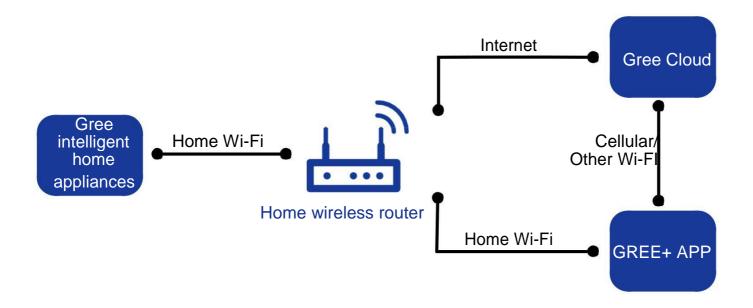
⚠ WARNING:

Use insulated object to press the auto button



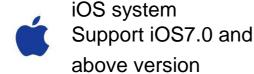
6.2 GREE+ App Operation Manual

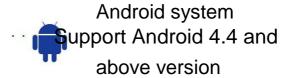
Control Flow Chart



Operating Systems

Requirement for User's smart phone:





Download and installation

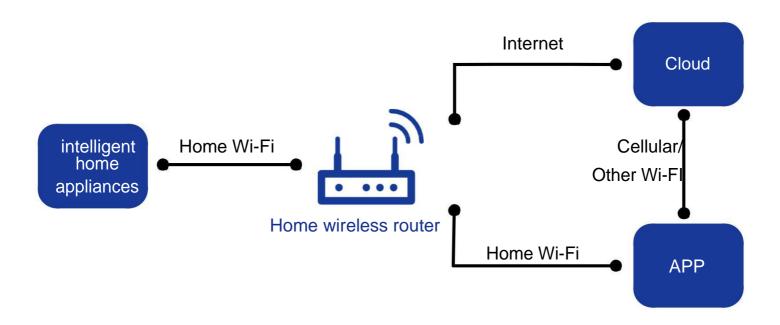


GREE+ App Download Linkage

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.

6.3 Ewpe Smart App Operation Manual

Control Flow Chart



Operating Systems

Requirement for User's smart phone:



iOS system Support iOS7.0 and above version



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.

6.4 Brief Description of Modes and Functions

Indoor Unit

1.Basic function of system

(1)Cooling mode

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

(2)Drying mode

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

(3)Heating mode

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

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

(4)Working method for AUTO mode:

- 1. Working condition and process for AUTO mode:
- a.Under AUTO mode, standard heating Tpreset=20^oC and standard cooling Tpreset=25^oC. The unit will switch mode automatically according to ambient temperature.
- 2.Protection function
- a. During cooling operation, protection function is same as that under cooling mode.
- b. During heating operation, protection function is same as that under heating mode.
- 3. Display: Set temperature is the set value under each condition. Ambient temperature is (Tamb.-Tcompensation) for heat pump unit and Tamb. for cooling only unit.
- 4. If theres I feel function, Tcompensation is 0. Others are same as above.

(5)Fan mode

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

2. Other control

(1) Buzzer

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

(2) Auto button

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

(3) Auto fan

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

(4) Sleep

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

(5) Timer function:

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

(6) Memory function

memorize compensation temperature, off-peak energization value.

Memory content: mode, up&down swing, light, set temperature, set fan speed, general timer (clock timer cant be memorized). After power recovery, the unit will be turned on automatically according to memory content.

(7) Health function

During operation of indoor fan, set health function by remote controller. Turn off the unit will also turn off health function. Turn on the unit by pressing auto button, and the health is defaulted ON.

22 Installation and Maintenance

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

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

(12)Off-peak energization function:

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

The time interval between two start-ups of compressor cant be less than $180+Ts(0\le T\le 15)$. T is the variable of controller. Thats to say the minimum stop time of compressor is $180s\sim195s$. Read-in T into memory chip when refurbish the memory chip each time. After power recovery, compressor can only be started up after 180+Ts 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^oC 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.

Installation and Maintenance

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℃ < Tindoor ambient temperature < Tpreset, unit operates according to the previous status.

Under cooling mode, 4-way valve is not energized. Temperature setting range is 16~30 ℃. 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 $^{\circ}$ 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 ℃.
- (3) Protection function: same as in cooling mode.

3. Fan mode

- (1) Under this mode, indoor fan can select different fan speed (except Turbo) or auto fan speed. Compressor, outdoor fan and 4-way valve all stop operation.
- (2) In fan mode, temperature setting range is $16~30\,^{\circ}\mathrm{C}$.

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 "+, -, +, -, 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.

Safety Precautions for Installing and Relocating the Unit:

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



Warnings

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

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

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

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

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

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

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

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

5.When installing the unit, make sure that connection pipe is securely connected before the compressor starts running.If compressor starts running when stop valve is open and connection pipe is not yet connected, air will be sucked in and cause pressure

rise or compressor rupture, resulting in injury.

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

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

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

Poor connections may lead to electric shock or fire.

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

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

Safety Precautions for Refrigerant

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

WARNING:

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









Safety Operation of Flammable Refrigerant

Qualification requirement for installation and maintenance man

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

Installation notes

- •The air conditioner is not allowed to use in a room that has running fire (such as fire source,working coal gas ware, operating heater).
- •It is not allowed to drill hole or burn the connection pipe.
- •The air conditioner must be installed in a room that is larger than the minimum room area.

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

•Leak test is a must after installation.

table a - Minimum room area(m²)

	Charge amount(kg)	≤1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5
Minimum room area(m²)	floor location	4	14.5	16.8	16.8	22	24.8	27.8	31	34.3	37.8	41.5	45.4	49.4	53.6
	wall mounted	4	5.2	6.1	7	7.9	8.9	10	11.2	12.4	13.6	15	16.3	17.8	19.3
	window mounted	4	4	4	4	4	4	4	4	4	4.2	4.6	5	5.5	6
	ceiling mounted	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Maintenance notes

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

Welding

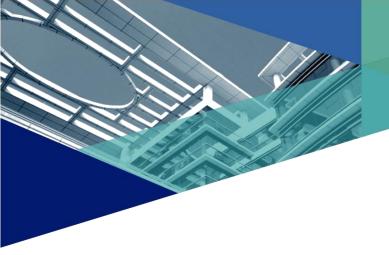
- •If you should cut or weld the refrigerant system pipes in the process of maintaining, please follow the steps as below:
- a. Shut down the unit and cut power supply
- b. Eliminate the refrigerant
- c. Vacuuming
- d. Clean it with N2 gas
- e. Cutting or welding
- f. Carry back to the service spot for welding
- •Make sure that there isnt any naked flame near the outlet of the vacuum pump and its well-ventilated.
- The refrigerant should be recycled into the specialized storage tank.

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.



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