

Service Manual

Models: GWH18YE-S6DBA2A GWH24YE-S6DBA2A (Refrigerant:R32)

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Table of Contents

P	art 🗉 : Technical Information	1
1.	Summary	1
2.	Specifications	2
	2.1 Specification Sheet	2
	2.2 Operation Characteristic Curve	4
	2.3 Capacity Variation Ratio According to Temperature	4
	2.4 Cooling and Heating Data Sheet in Rated Frequency	5
	2.5 Noise Curve	5
3.	Outline Dimension Diagram	6
	3.1 Indoor Unit	6
	3.2 Outdoor Unit	7
4.	Refrigerant System Diagram	8
5.	Electrical Part	9
	5.1 Wiring Diagram	9
	5.2 PCB Printed Diagram	11
6.	Function and Control	14
	6.1 Remote Controller Introduction	.14
	6.2 Operation of Smart Control (Smart Phone, Tablet PC) For Gree	19
	6.3 Operation of Smart Control (Smart Phone, Tablet PC)	33
	6.4 Brief Description of Modes and Functions	46
D	aut II Installation and Maintenance	E 4
P	art II : Installation and Maintenance	51
7.	Notes for Installation and Maintenance	51
8.	Installation	55
	8.1 Installation Dimension Diagram	55
	8.2 Installation Parts-checking	57
	8.3 Selection of Installation Location.	57
	8.4 Electric Connection Requirement	57
	8.5 Installation of Indoor Unit	57
	8.6 Installation of Outdoor Unit	60
	8.7 Vacuum Pumping and Leak Detection	61
	8.8 Check after Installation and Test Operation	61

9. Maintenance	62
9.1 Error Code List	62
9.2 Procedure of Troubleshooting	69
9.3 Maintenance Method for Normal Malfunction	83
10. Exploded View and Parts List	85
10.1 Indoor Unit	85
10.2 Outdoor Unit	87
11. Removal Procedure	
11.1 Removal Procedure of Indoor Unit	
11.2 Removal Procedure of Outdoor Unit	94

Appendix:	
Appendix 1: Reference Sheet of Celsius and Fahrenheit	
Appendix 2: Configuration of Connection Pipe	
Appendix 3: Pipe Expanding Method	
Appendix 4: List of Resistance for Temperature Sensor	

Part | : Technical Information

1. Summary

Indoor Unit:

GWH18YE-S6DBA2A/I GWH24YE-S6DBA2A/I



Outdoor Unit:

GWH18YE-S6DBA2A/O GWH24YE-S6DBA2A/O



Remote Controller:

YAG1FB



2. Specifications

2.1 Specification Sheet

Model			GWH18YE-S6DBA2A	GWH24YE-S6DBA2A
Product Cod	e		CB466000400	CB466000300
Davis	Rated Voltage	٧~	220-240	220-240
Power	Rated Frequency	Hz	50/60	50/60
Supply	Phases		1	1
Power Supp	ly Mode		Outdoor	Outdoor
Cooling Cap	acity	W	5300	7000
Heating Cap	acity	W	5570	7000
Cooling Pow	ver Input	W	1320	1840
Heating Pow	ver Input	W	1320	1750
Cooling Pow	ver Current	A	5.9	11
Heating Pow	ver Current	A	5.9	10.76
Rated Input		W	3300	3700
Rated Curre	nt	A	1	1
Air Flow Volu	ume(SH/H/M/L/SL)	m³/h	1200/1150/950/780/-	1250/1100/950/850/-
Dehumidifyir	ng Volume	L/h	1.8	2
EER		W/W	4.02	3.8
COP		W/W	4.22	4
SEER		W/W	6.6	6.5
HSPF		W/W	1	1
Application A	Area	m²	23-34	32-50
	Model of indoor unit		GWH18YE-S6DBA2A/I	GWH24YE-S6DBA2A/I
	Indoor Unit Product Code		CB466N00400	CB466N00300
	Fan Type		Cross-flow	Cross-flow
	Diameter Length(DXL)	mm	Ф108X830	Ф106X890
	Fan Motor Cooling Speed	r/min	1200/1150/1100/1000/900/850/800/600	1250/1100/1000/950/900/850/800/600
	Fan Motor Heating Speed	r/min	1250/1150/1100/1000/900/850/800/-	1400/1250/1100/1050/1000/900/850/-
	Output of Fan Motor	W	60	70
	Fan Motor RLA	A	0.24	0.38
	Fan Motor Capacitor	μF	1	1
	Input of Heater	W	1	1
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
Indoor Unit	Row-fin Gap	mm	2-1.4	2-1.5
	Coil Length (LXDXW)	mm	845X25.4X342.9	845X25.4X381
	Swing Motor Model		MP35CP/MP24HF	MP35CJ
	Output of Swing Motor	W	2.5/1.5	2.5
	Fuse	A	3.15	3.15
	Sound Pressure Level (SH/H/M/L/SL)	dB (A)	48/45/43/40/37/35/33	50/46/43/41/39/37/35/27
	Sound Power Level (SH/H/M/L/SL)	dB (A)	60/57/55/52/49/47/45	64/60/57/55/53/51/49/41
	Dimension (WXHXD)	mm	1101X327X249	1101X327X249
	Dimension of Carton Box (LXWXH)	mm	1164X402X339	1164X402X339
	Dimension of Package (LXWXH)	mm	1167X405X354	1167X405X354
	Net Weight	kg	16.5	16.5
	Gross Weight	kg	20	20

	Model of Outdoor Unit		GWH18YE-S6DBA2A/O(LCLH)	GWH24YE-S6DBA2A/O(LCLH)
	Outdoor Unit Product Code		CB466W00400	CB466W00300
	Compressor Manufacturer/Trademark		ZHUHAI LANDA COMPRESSOR CO., LTD	ZHUHAI LANDA COMPRESSOR CO., LTD
	Compressor Model		QXFT-D20zF030	QXFT-D20zF030
	Compressor Oil		FW68DA	FW68DA
	Compressor Type		Rotary	Rotary
	L.R.A.	A	30	30
	Compressor RLA	A	10.5	16
	Compressor Power Input	W	2260	2050
	Overload Protector		1	1
	Throttling Method		Electron expansion valve	Electron expansion valve
	Operation Temp	°C	16~30	16~30
	Ambient Temp (Cooling)	°C	-18~52	-18~52
	Ambient Temp (Heating)	°C	-30~24	-30~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.4	3-1.5
	Coil Length (LXDXW)	mm	945X38.1X748	994X57.1X748
	Fan Motor Speed	rpm	820	820
	Output of Fan Motor	w	90	90
Outdoor Unit	Fan Motor RLA	A	0.65	0.65
	Fan Motor Capacitor	μF	1	/
	Air Flow Volume of Outdoor Unit	m³/h	4000	4000
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Ф550	Ф550
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation			1
	Moisture Protection		IPX4	IPX4
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	4.3	4.3
	Permissible Excessive Operating	MPa	25	25
	Pressure for the Suction Side	IVII a	2.5	2.0
8	Sound Pressure Level (H/M/L)	dB (A)	56/-/-	56/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-	66/-/-
	Dimension (WXHXD)	mm	1000X790X427	1000X790X427
	Dimension of Carton Box (LXWXH)	mm	1080X485X840	1080X485X840
	Dimension of Package (LXWXH)	mm	1083X488X855	1083X488X855
	Net Weight	kg	64	65
	Gross Weight	kg	69	70
	Refrigerant		R32	R32
	Refrigerant Charge	kg	1.5	2.0
	Length	m	5	7.5
	Gas Additional Charge	g/m	40	50
Connection	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
Pipe	Outer Diameter Gas Pipe	mm	Ф16	Ф16
-2000	Max Distance Height	m	20	30
	Max Distance Length	m	40	50
	Note: The connection pipe applies metric	c diamete	er.	

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 conditi (DB/	Rated cooling condition(°C) (DB/WB) Moc		Pressure of gas pipe connecting indoor and outdoor unit	Inlet and o temperatu excha	outlet pipe ire of heat anger	Fan speed of indoor unit	Fan speed of outdoor unit	Compressor frequency
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)			(12)
27/19	35/24	18K	0.9 to 1.1	12 to 14	75 to 37	Super High	High	52
27/19	35/24	24K	0.9 to 1.1	12 to 14	75 to 37	Super High	High	72

Heating:

Rated heating condition(°C) (DB/WB)		Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and o temperatu excha	outlet pipe re of heat inger	Fan speed of indoor unit	Fan speed of outdoor unit	Compressor frequency
Indoor	Outdoor		P (MPa)	T1 (°C)	T2 (°C)]		(112)
20/-	7/6	18K	2.8 to 3.0	70 to 35	2 to 4	Super High	High	65
20/-	7/6	24K	2.8 to 3.0	70 to 35	2 to 4	Super High	High	77

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 or 7.5m.

2.5 Noise Curve



Indoor fan motor rotating speed

Heating

70

50

60

Cooling

80

90

100

3. Outline Dimension Diagram

3.1 Indoor Unit



	-	D
T		
	2	

1.1	nit	-	m
U	THU.	111	m

Model	W	Н	D
18/24K	1101	327	249

3.2 Outdoor Unit







Unit:mm

4. Refrigerant System Diagram



Connection pipe specification: Liquid pipe:1/4" (6mm) Gas pipe: 5/8" (16mm)

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	1

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

Indoor Unit



Outdoor Unit

GWH18YE-S6DBA2A/O



GWH24YE-S6DBA2A/O



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

5.2 PCB Printed Diagram

Top view



No.	Name				
1	Neutral wire				
2	Needle stand for indoor fan				
3	Auto button				
4	Up&down swing motor				
5	left&right swing motor				
6	Interface of temperature sensor				
7	Terminal for display board connection				
8	Terminal of jumper cap				
9	Communication wire				
10	Connect earthing wire(only for the mode with this function)				
11	Fuse				
12	Live wire interface				
13	Interface of health function neutral wire				
14	Interface of health function live wire				
15	Detecting plate(WIFI)				
16 Connect earthing wire(only the mode with this function)					
17	Wired controller (only for the mode with this function)				
18 Interface of gate control for the mode with this fund					

18K

• Top view



Bottom view



• Top view



No.	Name			
1	Interface of compressor			
2	Interface of temperature sensor			
3	Terminal of compresso overload protection			
4	Low-temperature cooling sensor			
5	Cooling A valve			
6	Cooling B valve			
7	Interface of outdoor motor			
8	Interface of 2-way valve			
9	Interface of 4-way valve			
10	Terminal of chassis electric heating			
11	Communication wire with indoor unit			
12	Live wire interface of power cord			
13	Earthing wire interface of cold plasma			
14	Neutral wire interface of power cord			

Bottom view



6. Function and Control

6.1 Remote Controller Introduction

Buttons on Remote Controller



Introduction for Icons on Display Screen



Introduction for Buttons on Remote Controller

Note:

• After putting through the power, the air conditioner will give out a sound.Operation indictor " U " is ON (red indicator). 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.

1. ON/OFF button

Press this button, the unit will be turned on, press it once more, the unit will be turned off. Sleep function will be canceled, while unit off.

Technical Information

2. FAN button

Press this button, Auto, Low, Medium-low, Medium, Medium-high, High speed can be circularly selected. After powered on, Auto fan speed is default. Under DRY mode, Low fan speed only can be set up.



Note: It's Low fan speed under Dry mode.

Low fan 🗚 Medium-low fan 🗚 Medium fan 🗚 Medium-high fan 🗚 🖬 High fan

3. MODE button

Press this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default while power on. Under Auto mode, the temperature will not be displayed; Under Heat mode, the initial value is 28°C(82°F); Under other modes, the initial value is 25°C(77°F).



4. +/- button

Presetting temperature can be increased.

Press this button, the temperature can be set up, continuously press this button and hold for two seconds, the relative contents can quickly change, until unhold this button and send the order that the °C(°F) signal will be displayed all the time. The temperature adjustment is unavilable under the Auto mode, but the order can be sent by if pressing this button. Temperature of Celsius degree setting: 16-30; for Fahrenheit degree setting: 61-86.

· Presetting temperature can be decreased.

Press this button, the temperature can be set up, continuously press this button and hold for two seconds, the relative contents can quickly change, until unhold this button and send the order that the °C(°F) signal will be displayed all the time. The temperature adjustment is unavailable under the Auto mode, but the order can be sent by if pressing this button.

5. TURBO button

Under Cool or Heat mode, press this button can turn on or turn off the Turbo function. After the Turbo function turned on, the signal of Turbo will display. The signal will be automatically cancelled if changing the mode or fan speed.

6. 🛲 button

Press this button to set left & right swing angle cycling as below:



7. 🔋 button

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

This remote controller is universal. If it receives threes kinds of following status, the swing angle will remain origial.

If guide louver is stopped when it is swinging up and down, it will remain its present position.

indicates guide louver swings back and forth in the five places, as shown in the figure.

8. CLOCK button

Press this button, the clock can be set up, signal () blink and display. Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds above, in every 0.5 seconds, the value on ten place of Minute will be increased 1. During blinking, repress the Clock button or Confirm button, signal () will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal () will be displayed. If there is signal () be displayed that denotes the current time value is Clock value, otherwise is Timer value.

9. TIMER ON/TIMER OFF button

• Timer On setting: Signal "ON" will blink and display, signal () will conceal, the numerical section will become the timer on setting status. During 5 seconds blink, by pressing + or - button to adjust the time value of numerical section, every press of that button, the value will be increased or decreased 1 minute. Hold pressing + or - button, 2 seconds later, it quickly change, the way of change is: During the initial 2.5 seconds, ten numbers change in the one place of minute, then the one place is constant, ten numbers change in the ten splace of minute at 2.5 seconds speed and carry. During 5s blink, press the Timer button, the timer setting succeeds. The Timer On has been set up, repress the timer button, the Timer On will be canceled. Before setting the Timer, please adjust the Clock to the current actual time.

 One press this key to enter into TIMER OFF setup, in which case the TIMER OFF icon will blink. The method of setting is the sameas for TIMER ON.



10. TEMP button

Press 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 " \bigcirc " with remote controller or no display, temperature indicator on indoor unit displays set temperature; When selecting " \bigcirc " with remote controller, temperature indicator on indoor unit displays indoor ambient temperature; When selecting " \bigcirc " with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature. 3s later it will return to the setting temprature or it depends on the other received signal within 3s.

Attention: When displaying the outdoor ambient, the displaying range is 32-99°F and 0-60°C. When it goes beyond the range, it keeps the threshold data (the smallest—0°C or 32°F and the largest 99°F or 60°C).

Warm tips: When operating buttons on the cover please make sure the cover is closed completely.

11. 辛/ 幻 button(This function is only available for some models)

Press this button to achieve the on and off of healthy and scavenging functions in operation status.Press this button for the first time to start scavenging function; LCD displays" ? ".Press the button for the second time to start healthy and scavenging functions simultaneously; LCD displays" ? "and "? .Press this button for the third time to quit healthy and scavenging functions simultaneously. Press the button for the fourth time to start healthy function; LCD displays" ? .Press this button for the third time to quit healthy and scavenging functions simultaneously. Press the button for the fourth time to start healthy function; LCD display" ? .Press this button again to repeat the operation above. **12. I FEEL button**

Press this button once, to turn on the I FEEL function, then the figure of "I FEEL" will be displayed, after every press of other function button, every 200ms to send I FEEL once, after this function started, the remote control will send temperature to the main un it in every 10 minutes. When repress this button, this function will be turned off.

13. LIGHT button

Press this button at unit On or Off status, Light On and Light Off can be set up. After powered on, Light On is defaulted.

14. X-FAN button

Pressing X-FAN button in COOL or DRY mode, the icon % is displayed and the indoor fan will continue operation for 2 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.

15. QUIET button

Press this button, the Quiet status is under the Auto Quiet mode (display" , and "Auto" signal) and Quiet mode (display " , " singal) and Quiet OFF (there is no signal of " , " displayed), after powered on, the Quiet OFF is defaulted. Under the Quiet mode (Display " , " signal), the fan speed is not available.

16. SLEEP button

•Press this button, can select Sleep 1 ((1), Sleep 2 ((2), Sleep 3 ((3)) and cancel the Sleep, circulate between these, after electrified, Sleep Cancel is defaulted.

•Sleep 1 is Sleep mode 1, in Cool, Dehumidify modes: sleep status after run for one hour, the main unit setting temperature will increase 1°C(1°F~2°F), 2 hours, setting temperature increased 2°C(3°F~4°F), 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(1°F~2°F), 2 hours, setting temperature will decrease 2°C(3°F~4°F), then the unit will run at this setting temperature will decrease 2°C(3°F~4°F), 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. In Cool mode:

(1) When setting the initial temperature $16 \sim 23^{\circ}C(61^{\circ}F \sim 74^{\circ}F)$, after turned on Sleep function, the temperature will be increased $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$ in every hour, after $3^{\circ}C(5^{\circ}F \sim 6^{\circ}F)$ the temperature will be maintained, after 7 hours, the temperature will be decreased $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$, after that the unit will keep on running under this temperature;

(2) When setting the initial temperature $24 \sim 27^{\circ}C(75^{\circ}F \sim 81^{\circ}F)$, after turned on Sleep function, the temperature will be increased $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$ in every hour, after $2^{\circ}C(3^{\circ}F \sim 4^{\circ}F)$ the temperature will be maintained, after 7 hours, the temperature will be decreased $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$, after that the unit will keep on running under this temperature;

(3) When setting the initial temperature $28 \sim 29^{\circ}C(82^{\circ}F \sim 85^{\circ}F)$, after turned on Sleep function, the temperature will be increased $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$ in every hour, after $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$ the temperature will be maintained, after 7 hours, the temperature will be decreased $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$, after that the unit will keep on running under this temperature;

(4) When setting the initial temperature $30^{\circ}C(86^{\circ}F)$, under this temperature setting, after 7hours, the temperature will be decreased $1^{\circ}C(1^{\circ}F-2^{\circ}F)$, after that the unit will keep on running under this temperature;

In Heat mode:

(1) Under the initial presetting temperature 16°C(61°F), it will run under this setting temperature all along.

(2) Under the initial presetting temperature 17~20°C(62°F~68°F), after Sleep function started up, the temperature will decrease 1°C(1°F~2°F) in every hour, after 1°C(1°F~2°F) decreased, this temperature will be maintained.

(3) Under the initial presetting temperature 21~27°C(69°F~81°F), after Sleep function started up, the temperature will decrease 1°C(1°F~2°F) in every hour,after 2°C(3°F~4°F) decreased, this temperature will be maintained.

(4) Under the initial presetting temperature $28 \sim 30^{\circ}$ C(82° F $\sim 86^{\circ}$ F), after Sleep function started up, the temperature will decrease 1° C(1° F $\sim 2^{\circ}$ F) in every hour, after 3° C(5° F $\sim 6^{\circ}$ F) decreased, this temperature will be maintained.

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

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote control enters into user individuation sleep setting status, at this time, the time of remote control 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 "Trubo "button for confirmation;
(3) At this time, 1 hour will be automatically increased at the timer postion on the remote control, (that are "2hours" or "3hours" or "8hours"), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;

(4) Repeat the above step (2)~(3) operation, until 8hours temperature setting finished, sleep curve setting finished, at this time, the remote control 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 within10s, there is no button pressed, the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "Mode" button, "Timer" button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

17. About X-FAN function

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

(1)Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for about 2 min. at low speed. In this period, press X-FAN button to stop indoor fan directly.

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

18. About AUTO RUN

When AUTO RUN mode is selected, the setting temperature will not be displayed on the LCD, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

19. About turbo function

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

20. About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controlleris locked, the icon in will be displayed on it, in which case, press any button, the mark will flicker for three times. If the keyboard is unlocked, the mark will disappear.

21. About swing up and down

(1)Press swing up and down 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.

(2)Under swing up and down mode, when the status is switched from off to 31, if press this button again 2s later, 31 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.

22. About swing left and right

(1)Press swing left and right 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.

(2)Under swing left and right mode, when the status is switched from off to \overline{m} , if press this button again 2s later, \overline{m} 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.

23. About switch between Fahrenheit and Centigrade

Under status of unit off, press MODE and - buttons simultaneously to switch °C and °F.

24. 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.

25. Combination of "TEMP" and "CLOCK" buttons : About 8°C(46°F) Heating Function

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

26. About Auto Quiet function

When auto quiet function is selected:

(1)Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or when indoor ambient temperature≤28°C(82°F), indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambinet temperature and set temperature. (2)Under heating mode: indoor fan operates at notch 3 speed or quiet mode according to the comparison between indoor ambient temperature.

(3)Under dry, fan mode: indoor fan operates at quiet mode.

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

27. About Sleep function

Under the Fan and Auto mode, the Sleep function cannot be set up, under Dehumidify mode, only Sleep 1 can be selected. Select and enter into any kind of Sleep mode, the Quiet function will be attached and stared, different Quiet status could be optional and turned off.

28.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.(This function only applicable for some models.)

Operation Guide

1. General operation

(1)After powered on, press ON/OFF button, the unit will start to run. (Note: When it is powered on, the guide louver of main unit will close automatically.)

(2)Press MODE button, select desired running mode.

(3)Pressing + or - button, to set the desired temperature (It is unnecessary to set the temp. at AUTO mode)

(4)Pressing FAN button, set fan speed, can select AUTO FAN, LOW, MEDIUM-LOW, MEDIUM-HIGH and HIGH.

(5)Pressing and button, to select the swing.

2. Optional operation

(1)Press SLEEP button, to set sleep.

(2)Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.

(3)Press LIGHT button, to control the on and off of the displaying part of the unit (This function may be not available for some units).

(4)Press TURBO button, can realize the ON and OFF of TURBO 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 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.







Cover of battery box



6.2 Operation of Smart Control (Smart Phone, Tablet PC) For Gree

Operation Instructions

Download and install APP

Scan the following QR code with your smart phone and download Wifi Smart.



Install the APP according to its guidance. When successfully installed, your smart phone homepage will show this icon 🔒

User of IOS system can search for the Gree Smart in Apple store to download the Apple version APP.

Configuration

NOTE: Select either the original configuration or AP configuration according to the APP functions.

1.Original configuration

Before operation, please finish the following configuration in order to realize Wifi control and the connection between air conditioner and intelligent device.

(1).Short-distance control setting for air conditioner using Wifi hotspot

Step 1: Air conditioner Wifi is set in AP mode in factory. You can search the air conditioner Wifi hotspot through your smart phone. The name of Wifi hotspot is the last 8 numbers of the air conditioner mac address. Password is 12345678.



Step 2: Open APP and the screen will show the air conditioner that you just connected. Tap the name of this air conditioner on your phone to enter and realize short-distance control, as shown below. Please refer to "Functions introduction" for specific control methods.



NOTE: One AC can be controlled by 4 smart phones in maximum at the same time.

(2).Short-distance and long-distance control setting for air conditioner connecting with router

Step 1: Under short-distance control, return to the homepage "Home Control". Tap + t the top right corner of the homepage "Device".



Select "Add device" and enter the page of "Add device". Tap "Manual configuration" and enter the page "Manual configuration". Step 2: Select the correct network name and enter the password. Select the server (The server setting here must keep the same as the server setting in "Settings" mentioned below. Otherwise, remote control will fail.), then tap the button "Add device" for configuration. At this time, "Configuring" is displayed on the APP. The buzzer in the indoor unit will give out a sound when configuration succeeds.

= 1	NO 3755 IN A	(+)	<	Add device	<	B B H47 B * AB # 1995 Manual configuration		C B ALS D ALS: Manual configuration
Air conditioner	11.0.02	~		Ser Sectory.				
CD =57e(0)0	\$ 30%	(h)	Enter	device setwork WII I password for quick configuration	ESID	Tendo_36EA10	\$50	Tends_36EA10
9	0.000	0		075/2004	PWD	1234567890	PMD:	1234567890
			8.	Seases Press WW? pagement	Server	Europe "	Sever	Europe
				We demodipation inf				Antonia antonia.
				Add denice		Add device		Add device
				Manual configuration		0		0

2.AP configuration

4 steps of configuration

Step 1: Enter homepage "Device", and then tap _____ at the top right corner. Select "Add device" and enter the page "Add device". Tap "Manual Configuration".

Dev	ce +	Add device
Ar conditioner	Add device Inflaned control Add score Add preset Preset fielt Unit	Enter desice retwork MPT parameter for quick configuration $\frac{1}{Q^2}$ K4-Teatled $\frac{1}{Q^2}$ Please reput VPT (parameter) structure parameters for
		Add device Manual Configuration - Guick Configuration

Step 2: Tap "Next" in the First Step.



Step 3: Select the wireless network of air conditioner. APP will show the password 12345678 (default password of the network of air conditioner). Then tap "Next"; select the name of home Wifi router, then enter the correct password and select a server.

No SAL Card 🖓 🤍 HTK 🛢 (O. 10 AM	No EM Cert D = 47% @ 00.09.00
C Third Step	Second Step
Phones effective year farmer (647) multi-	Phase shares AD transet
😪 K4-Tes:888 🥝	R a0540629
🙃 Demon	
🛪 TPLINK,KA_TEST	
A #0840829	
	(j). 12345678
@ m683688	Mext
Server Asia	
Next.	

Service Manual

Step 4: If configuration is successful, a window will pop up and read "Configuration succeeded". Then configuration is completed.



NOTE: After configuration is completed, the air conditioner hot spot connected to your phone will disAPPear. You should reconnect your phone to the home Wifi router to realize long-distance control.

The above configuration only needs one phone. Other types of phones shall install this APP, connect with the air conditioner hot spot or wireless router of Wifi air conditioner. When connection is done, open the APP to use short-distance operation to control the air conditioner and then you can use the long-distance control.

Functions introduction

1.User registration

Purpose: To realize long-distance control

Operation instruction: For the first time login, you have to register a new username. If you already have a username, skip the registration step and enter email address and password on the "Login Page" to log in. If password is forgotton, you can reset the password. Operation steps:

(1) Select the sever address

2	** alC = 14:07	E Sergiowratal	inea
Lugin		Vibration	0
		Message alerts	
🕽 Settings		Server	Europa "
Rachan			
¥ Shire ⊇ Hea		Check for upitates	
) familiara		About product	

(2) Account login: Slide the page "Device", and enter the page "Menu" on the left. Tap "Login" to enter the page "Register username". New user must first register a username. Tap "Register".

III III III III III IIII IIII IIII II
C rearginest com
R Test
(i)
B
Register

(3) Enter your email address. Wait until you receive the verification code. Enter the code and then tap "OK" to log in.



(4) If password is forgotten, you can reset the password with your email address.

Tap "Forgot password" and enter the page "Forgot password". Tap "Get verification code" to get an email verification code. Enter a new password and tap "OK" to log in.



2.Personal settings

Purpose: Set name (device name, preset name, etc.) and images (device image) in order to identify a user easily.

(1) Set device name

After quick configuration, a list of controllable smart devices will be generated. Default name for air conditioner is the last 8 numbers of the air conditioner mac address.



Step 1: Tap and hold "a0b417ac" to enter the page "Edit device". Tap "Image" to select the source of image. Select from "Default images" or "Take photo" or "Choose from photos" and save an image.



Step 2: Tap "Name" to change device name. Save it and the new device name will be shown. Enable button "Lock device" to lock the device so that other smart phones can't search the device. Tap "Temp unit" to change the temperature unit.



Step 3: Tap "Firmware update" to upgrade the firmware of the device. Tap"1.8" and then the device will be updated automatically.



(2) Set preset name

Step 1: Tap ____ at the top right corner of the homepage "Device". Select "Add preset" and enter the page "Preset edit".



Step 2: Choose the time. Tap "Name". As shown in the picture, its name is "baby room". For timer type, select "On". Then select the repeating days. Save the setting of preset name.



(3) Set device image

Please refer to step 1 in 2(1)

3.Control functions

(1) Common control functions: General control on the operation of smart devices (On/Off, temperature, fan speed, mode, etc.) and the setting of advanced functions (air exchange, dry, health, light, sleep, energy saving upper limit).

Step 1: General control

Enter the homepage "Home control" first. Take "babyroom"as an example.



Tap "babyroom" and enter the page of air conditioner control. Tap 🕐 to turn on the control switch.



Tap (+) or (-) to increase or decrease temperature. Tap R cool to change working mode. Tap adjustment.

to enter the page of fan speed

(3)



Тар

0

and go around the circle to adjust fan speed.



Step 2: Advanced settings

Tap 🔬 to enter advanced settings. You may select "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving".

12 ·	1413	al 🖬 12:03	28	141 2 2 2	11:50
	babyroom	C	<	babyroom	
				×	
	* Cool		•	Air	
	22		0	Dry	
	22%		6	riealth	
			0	Sofe,	0
10		<u>-</u>	0	Silenco	
-		~	6	Evergy saving	
Law	Upädown Leftäright	Preset			

(2) Advanced control functions: Set scene; Preset; Link; Infrared control (only APPlicable to smart phones with infrared emitter) Set scene: Preset the operation of several smart devices by one tap.

On the page "Home control", tap the image of "Home control" to enter the page "Edit scene".



Tap "Add scene" and edit the scene name, for example, "Back home". Add execution devices.

Tap _____ to add commands. On the page "Select execution device", select the air conditioner named "babyroom". Then select "ON" or "OFF".

Entering Galer Standard and all the sciences	Transformer and state and add address of
babyroom	bebyrcom
ac	G AC
AC	AC AC
AC	
ac ac	Ca AG
AC	Please telect
AC	ON
AC	Canoel

Continue to select the next execution device as instructed above. Tap 055 to set the interval.

1944 W at 8 13.97	의 140 S at # 13:57
C Edit scene Save	C Edit scene Save
Back home	Back home
+ babyroom OFF	+ babycom Off
0.5s	Select inteval
 babyroom ON 	0.0
+	0.0
	0.5 sec
	1.0
	Yes Canoel

Tap "Save". Tap the scene picture displayed on homepage "Device" to send the command. Then the scene "Back home" will be in execution. You may view the execution condition of the scene.

No SIM Card	· 121	14:36
Ξ	Device	+
COUNCE-	Ba	ck horse
Air conditioner		~
babyroc	m ¥18℃	Ø
AC	*23 ℃	O
AC	V 16 %	
AC AC	* 27 ℃	Ø
at 💭	⊕ 22 °C	
AC	₩23 ℃	0

(3) Preset includes single-device preset and multi-device preset

Single-device preset: This can preset a certain device to be On/Off at a specific time.

On the homepage "Device", take air conditioner "babyroom" as an example. Tap on the bottom of the page "babyroom". Then you will enter the page "Preset edit".

¢ babyroom
25.0
- +
Gi (padawan Leftinght Pre

Slide up and down to set the time. If you need to synchronize the time, tap " synchronize". If such "Hint" interface doesn't show up, please skip this operation step.

K Prese	tedit Swe	Select execution device from
18	38	AC
19:	39	Hint Device time : 2015-05-00-09-20-02
20	40	Time on your phone is different from the time on your WIFI device. to year to synchronize the time?
Name	baby resm	Dant eyectronize Synchronize
Preset device	babyroom	· · · ·
Timer type	010 011	Eutyaon C
Repeat Mon Tue Wed Th		() AC

Tap "Name" to customize the preset name.

Preset device can't be selected and it will default to "babyroom". Select "On" for the timer type. Select repeating days to complete the preset.



Multi-device preset: This can preset multiple devices to execute a command at a specific time. Please refer to the instructions as how to set preset time, name, timer type and repeating days for a single device. Tap "Preset device" to select one or more devices. Then return to the page "Device".

01	- 18	≈4 \$ di [] 1044
×	Select exec	ution device
6	babyroom	
0	AC	
0	AC	
G	AC	
0	AC	
	AG	
Q	AC	
Ø	AG	

(4) Link(This function is APPlicable to some models)

Select a master device. When the environment satisfies the parameters as set in the master device, slave devices will execute commands to realize devices linkage.

Step 1: Set the parameters of master device (Select master device, select environment parameters, select master device status).

Tap + at the top right corner of the homepage "Device". Select "Link" and enter the page "Add linkage". Tap "Device/Param" to enter the page "Select device". Take "baby room" as an example. Tap "babyroom".

945 \$ A II 14 40	AL 3 2 8 1410		
C Add linkage Save	< Select execution device		
a .	Denied area at the and shift to bringe		
Devi ce/Environment Parameter / 100 to	AC		
Time parameter/	AC		
Ben	0		
Greate command / Tractor served	instyroom		
	AC		
	(B)		

Enter the page "Select environment parameters".

	When babymorn	
Clemp		
Mode		
⊙os/on		

Tap "Temperature" to enter the page "Select temperature parameter". Slide up or down to adjust temperature. Tap "Upper limit" or "Lower limit".

Tap "Mode" and "On/Off" to select the status of master device. Then tap "Save".



Step 2: Set time parameter for linkage. Tap "Time parameter" to enter the page "Set time". Slide nightwards to turn on the setting time.

MIT:	at III 15:02		
udd linkage	Law	<	Settime
		Bektime	
rvisorement Portameter	Winne Dodressment		
arcotur/			
command/ None seites			

Tap "Execution time"; then tap "Start" and "Stop" to set start time and stop time respectively. Tap "OK" at the top right corner to save the setting.



Tap the days below "Repeat" to select the repeating days. Then tap "Save".



Step 3: Select "Execute command"

Tap "Execute command" and enter the page "Select device".



Tap the name of device that you want to control. Tap "ON" or "OFF" and then tap "Save" to complete the linkage.

140 😤 🖌 🛙 1503	■ 0. 薪除溶液 学員 北回125直647 PM
Select execution device	🖌 Add linkage Bave
The second second biology	a.
()) + C	C Device, Param/Tag to select
3 *	Time parameter/
(atypan	thes
Q~	Execute command/Tep to select
9 *	
Select executable command	
Instantion ON	
haltyman Off	
Carrow	

Tap "Save" and then repeat the above steps to set linkage of several scenes.



(5) Infrared control (only APPlicable to smart phones with infrared emitter).

Function: Smart phone can be used as a remote controller.

Tap + at the top right corner of the homepage "Device". Select "Infrared" and enter the page "Remote controller". Tap and slide up to enter the page of advanced functions.





Tap o to turn on the device. Tap o to select mode. Tap saving", "Sleep" etc. to set advanced functions.

to adjust fan speed and swing angle. Tap "Health", "Energy

Tap "Sleep" to enter the page "Sleep". You can select "Traditional sleep", "Expert sleep" or "DIY sleep". Tap "DIY sleep" and then tap the left and right arrows to set sleep time. Tap up and down arrows to adjust temperature at a specific sleep time.





4.Menu functions

Menu functions (Share, Set, History, Feedback)

(1) Share: To share quick configuration information and unit's information, including local export and local import.

For local import, you just need to tap "Local import" and wait for the data download.

Local export

Step 1: Export local data to another smart phone.

Enter "Menu" on the left side and tap "Share" to enter the page "Share". Then tap "Local export".



Step 2: Another smart phone to be imported. Tap the model name and wait for the download.



(2) Backup: To keep backup of the quick configuration information and unit's information, including backup to cloud and backup list on the cloud.

Backup to cloud

Enter the "Menu" on the left and tap "Backup".



Tap "Backup to cloud" and then tap "Yes". Then wait for the data download.



Select "Backup list on the cloud". Then backup records will APPear. Tap "Record" to download data and recover data to local unit.



(3) Settings

User can set vibration, message alerts, server, updates, etc. The server setting here must be the same as the server setting in "Configuration" mentioned before.

Otherwise, remote control will be invalid.



(4) Feedback

User can feedback suggestions to back-stage management for maintenance and development. Tap "Feedback". Enter your suggestions and then submit it.



6.3 Operation of Smart Control (Smart Phone, Tablet PC)

Operation Instructions

Download and install APP

Scan the following QR code with your smart phone and download Wifi Smart.



Install the APP according to its guidance. When successfully installed, your smart phone homepage will show this icon

User of IOS system can search for the Wifi Smart in Apple store to download the Apple version APP. Android user can search "WiFi Smart" on Google Play to download it.

Configuration

NOTE: Select either the original configuration or AP configuration according to the APP functions.

1.Original configuration

Before operation, please finish the following configuration in order to realize Wifi control and the connection between air conditioner and intelligent device.

(1).Short-distance control setting for air conditioner using wifi hotspot

Step 1: Air conditioner wifi is set in APP mode in factory.

You can search the air conditioner wifi hotspot through your smart phone. The name of wifi hotspot is the last 8 numbers of the air conditioner mac address. Password is 12345678.



Step 2: Open APP and the screen will show the air conditioner that you just connected. Tap the name of this air conditioner on your phone to enter and realize short-distance control, as shown below. Please refer to "Functions introduction" for specific control methods.


- 2.Configuration method for Android phones
- 4 steps of configuration

Step 2: Tap "Next" in the First

Step 1: Enter homepage "Device", and then tap + at the top right corner.

Select "Add device" and enter the page "Add device".

Tap "Manual configuration" and enter the page "Manual configuration".

No SIM Card 🖪 🗘 🖩	정 후 196%	16:49		740	SIMO	ard 🛐 🖩 🛛 🗇 🐨 100%	02:15
=	Device	+			<	Configuration	
0	Add dev	tice					
Gree AG	Add sce	me.			Ent	er device network WiFi passwo quick configuration	rd for
Gree AC	Add pre	ses int			÷	TP-LINK_FE13	
AGree AC	Link				۲	Please input WiFi password	0
a0649358	29°C	Ø				Why does canfigur	ation fail?
a0b45dd8	s ≉ 16°C	0					
4064941							
a0b49377	# 26℃	0				Configuratio	
DNA		~				Manual configuration	
		Pl Su Notic	First step First step ase reset WiFi mod ceeded when you h sound. to reset WiFi mod mode and turbo b remote controller seconds.	ule. Reset is ear a "beep" Jule, hold the uttons on the for 10	2		
			Next				

Step 3: Select the wireless network of air conditioner. APP will show the password 12345678 (default password of the network of air conditioner). Then tap "Next"; select the name of home WiFi router, then enter the correct password and select a server.

No SIM Card 📓 🔿 📕 👘 😌 100% 🛢 16.42	No SIM Card 🖪 🚫 🔳 👘 👳 💷 🕸 100% 角 16:50
Second step	< Third step
Please chouse the expected ACWP inerwork	Please choose your home WiFi couter
🗟 a0b417ac 🥝	🕤 TP-LINK, FE13
	aub417ac
	BUFFALO-263862
	TP-LINK_EDEA08
12345678	(i)
Next	Pasaword
	Server: Asia
	Next

Step 4: If configuration is successful, a window will pop up and read "WIFI module starts to connect the configured wireless router". Then configuration is completed.



NOTE: After configuration is completed, the air conditioner hot spot connected to your phone will disappear. You should reconnect your phone to the home WiFi router to realize long-distance control. The above configuration only needs onephone. Other types of phones shall install this APP, connect with the air conditioner hot spot or wireless router of WiFi air conditioner. When connection is done, open the APP to use short-distance operation to control the air conditioner and then you can use the long-distance control.

3.Configuration method for Apple phones

Step 1: Turn on Wi-Fi "Settings" on the phone.

No SIM 🔻	12:32 PM		-
Settings	Wi-Fi		
Wi-Fi			0
✓ Tenda_36	SEA10	₿ 😤	(1)
CHOOSE A NET	WORK		
1234567	8	8 🕈	(
a0b4173	7	₽ 🗢	(i)
a0b4174	D	• *	1
gree_ly		÷	1
HUAWEI	HXTENV		1
HUAWEI	HXTENV_5G	8 🗢	1
sss_5G			0

Step 2: In general, the hot spot signal of air conditioner is the last 8 bits of MAC address. Eg: Select "a0b41737" and enter the defaulted password "12345678" to connect it.

1	2	3	4	5	6	7	8	9	0							
1	2	3	4	5	6	7	8	9	0							
Pa	issw	ord	•	••••	••••					~	a0b417	37			9	Œ
Car	ncel		Ent	er Pa	assv	vord		4	loin		Wi-Fi					
	E	nter t	he pa	sswor	rd far	"a0b	4173	7*		<:	iettings		Wi-F	1		
				12:3	2 PM				-	NO.5	M 7		12:32 8	PM		_

Step 3: Turn on APP, press "+" button, press "Add device" to enter into the page of "Add device" and then select "Manual configuration". Enter wireless router's SSID and PSW on the page of "Manual configuration". The display on the server will be the same as the selection when registering the account (server selection in "Setting").

Eg: WiFi name: Tenda_XXX;

WiFi password:123456789

Server: Europe

Check whether the filled information is correct. If the information is wrong, configuration will fail. Press "Configuration" to start configuration.

Devic	* +	No. 500 (9)	Add device	Kanual Manual	configuration
n conditionse NA 20049411	Add device Add scene Add preset Preset list Linkage	Enter de	nvice network WiFi password for quick configuration 041737 password Why does configuration fai? Configuration	WiFi name: WiFi pasaword: Server:	Europe

Notice:

• Finally, press "Configuration", and APP will send the filled information to Wifi Smart. At this time, the buzzer will give out a sound, which indicates it has started to connect the wireless router.

- If the name of router or the password is wrong, Wifi Smart can't connect to the wireless router. 2 mins later, please conduct the configuration operation again. Reset Wi-Fi adaptor by pointing you remote at the indoor unit and holding the mode and Turbo buttons on your remote control for 10 seconds and until you hear the beep.
- Wrong server selection will cause long-distance control invalid. Therefore, please make sure that the server selection when registering the account is the same as this one.
- If the password is blank, no password is defaulted for the wireless router, which is the OPEN mode.

• Configuration should be conducted at one time. As for other phones, they can automatically search for the device after connecting to the wireless router (such as Tenda_XXX) and turning on the APP.

Functions introduction

1.User registration

Purpose: To realize long-distance control.

Operation instruction: For the first time login, you have to register a new username. If you already have a username, skip the registration step and enter email address and password on the "Login Page" to log in. If password is forgotton, you can reset the password. Operation steps:

(1) Select the sever address.

No SM Cake 🛐 🔿 🔳	UF 100% 🖬 16/52	RussMicard 🔤 🔘 🗰	CT 100% 🖬 18.53
	=	< Settin	1gs
Logn	(a)	Button shake	
	0.	Push message	
	0	Server	Asia
Settings	· .	-	Asia
Backup	CD.		Europe
	100 C	Check for updates	HongKong
		About product	NorthAmerica

(2) Account login: Slide the page "Device", and enter the menu page on the left. Tap "Login" to enter the page "Register username". New user must first register a username. Tap "Register".

sakovi ⊠ O ∎ (r + 1105.8 1454 < Login	Resident 🖬 🔿 🖬 👘 🔅 🐨 100. 🛚 155 K Register username
Fhore number/Username	() Email
Posseerd	A Commence
	Parsener@
	😥 Confirm password
	Server: Asia
Login	Register
Register usemame Forgot password	Loger

(3) If password is forgotten, you can reset the password with your email address.

Tap "Forgot password" and enter the page "Forgot password". Enter your registered email account the first. Tap "Get verification code" to get an email verification code. Enter a new password and tap "OK" to log in.



2.Personal settings

Purpose: Set name (device name, preset name, etc.) and images (device image) in order to identify a user easily.

(1) Set device name

After quick configuration, a list of controllable smart devices will be generated. Default name for air conditioner is the last 8 numbers of the air conditioner mac address.

 Nacional Call
 Image: Call Call
 Image: Call Call
 Image: Call Call
 Image: Call Call
 Image: Call

Step 1: Tap and hold the Wifi model name, such as "a0b417ac", to enter the page "Edit device". Tap "Image" to select the source of image. Select from "Default images " or " Take photo" or "Choose from photos" and save an image.



Step 2: Tap "Name" to change device name. Save it and the new device name will be shown. Enable button "Lock device"to lock the device so that other smart phones can't search the device. Tap "Temperature unit" to change the temperature unit.

		No SIM Card	17:05	0 9 100%	SIM Card 🖪 🔇 🔳
evice Save	Edit de	<	+	lice	E D
9		Image	0		AGreeAC
a0b45dd8		Name	٢	≇ 16℃	babyroom
	ce	Lock devi	Ø		a054941f
Celsius	ure unit	Temperat	Φ	≉26℃	a0b49377
	update	Firmware	ome		a0b4935b
			Officia		aŭb417ac

Notice: If this device is not locked, other phones within the local area network can be found through wifi smart APP and operate the device.

Step 3: Tap "Firmware update" to upgrade the firmware of the device. Tap"1.7" and then the device will be updated automatically.



(2) Set preset name

Step 1: Tap ____ at the top right corner of the homepage "Device". Select "Add preset" and enter the page "Preset edit".



Step 2: Choose the time. Tap "Name". As shown in the picture, its name is "baby room". For timer type, select "On". Then select the repeating days. Save the setting of preset name.



(3) Set device image

Please refer to step 1 in 2(1)

3. Control functions

(1) Common control functions: General control on the operation of smart devices (On/Off, temperature, fan speed, mode, etc.) and the setting of advanced functions (air exchange, dry, health, light, sleep, energy saving upper limit).

Step 1: General control

Enter the homepage "Device" first. Take "babyroom" as an example.

Nosma	ee 🖬 🔿 🔳 Dev	ice	• 1718 +
	babyroom	⊛ 16°C	٢
0	00649411		
0	a0649377	≈ 25℃	
0	80849366		-119-0
9	adh417ac		175-0



Tap to enter advanced settings. You may select "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving".

9 SM (243 🔁 🗇 🗰 👘 📋 👘 👘 👘 17.27	No SM Card 🖬 🔿 🗃	TO 19 100% 11121
C babyroom ()	K babyr	oom 🔿
	~	8
* Cool	11 Ac	
25	🔁 Der	00
Z. 0.*c	E Health	
	C Light	
0 0	C See	
	Energy taxing	
Light Uplicown Leftlingen Prevet		
~		

(2) Advanced control functions; Set scene; Preset; Link: Infrared control(only applicable to smart phones with infrared emitter) Set scene: Preset the operation of several smart devices by one tap. On the page "Device", tap the image of "Device" to enter the page "Edit scene".



Tap "Add scene" and edit the scene name, for example, "Back home". Add execution devices.

Tap [+] to add commands. On the page "Select execution device", select the air conditioner named "babyroom". Then select "ON" or "OFF".

No SM Gad 🛅 💭 🔳 👘 🖽 👘 10 55 着 17 30	No SIM Card 📓 🔿 🔳 👘 🤨 160% 🔒 17:31
Select execution device	Select execution device
a0b4935b	
babyroom	anti-a220
a064941f	bothyroom
a0549377	40b49411
e0b417ac	Please select
Gree Air Purifier	OFF
	Cancel

Continue to select the next execution device as instructed above. Tap of to set the interval.

No EM God 🖪 😳 🖩 👘 10 🕫 100% 🖥 1729	NoSIMCarz 🛐 🔿 🖩 🛛 🕙 🕸 🕫 1035	No SP/ Cold 🖸 🖓 🖬 👘 🖓 💚 100% 🖻 17:33
Add scene Save	< Add scene Save	
liset home	back home	Server
Add a certain of communication make tap a unitype ocense.	* Dabytoom OFF	• babycon OF
	0.50	Select interval time
	 babyroom ON 	0.0
	+	0.5 *
		1.0
		OK Canoel

Tap "Save". Tap the scene picture displayed on homepage "Device" to send the command. Then the scene "Back home" will be in execution. You may view the execution condition of the scene.

TO SEM Card	T 10	14:30	No SIM Care	V 5251
	Device	+	=	Device
		ch home		
ir condition	ier	~	eur condition	
babyn	000m ℃ 18 ℃	Ø	taby	aan VUC
AC	÷ 23 ℃	0		+23 %
AC	N 16.90		Back home	e some execution competi
AC	@ 27 °C	Ø	1 bebyroor	n Execution success
a n	+ 22 °C			
AC	8 23 %	O	_	Yes

(3) Preset includes single-device preset and multi-device preset

Single-device preset: This can preset a certain device to be On/Off at a specific time.

On the homepage "Device", take air conditioner "babyroom" as an example. Tap 👩 at the bottom of the page "babyroom". Then you will enter the page "Preset edit".

e SIM Cord 🖪	0.	© ← 100%	1716	ne SM CHI 🖸 🖓 🖩 🛛 🖄 🗢 100% 🛍 11
.	Dev	ce	+	< babyroom 🔇
bat	yroam	⊛ 16°C	0	
() att	o89417		Ø	* Cool
att	49377	∯ 26°€	O	25.
ati	49355		othin	
act	e417ac			- +
DNA			~	

Slide up and down to set the time. If you need to synchronize the time, tap " synchronize". If such "Hint" interface doesn't show up, please skip this operation step.

Tap "Name" to customize the preset name.

Preset device can't be selected and it will default to "babyroom". Select "On" for the timer type. Select repeating days to complete the preset.



Multi-device preset: This can preset multiple devices to execute a command at a specific time.

Please refer to the instructions as how to set preset time, name, timer type and repeating days for a single device.

Tap "Preset device" to select one or more devices. Then return to the page "Device".

NoSk	(Card 🛂 🔿 🔳	GT 🌩 100% 🛢 17:00
<	Select exect	ution device
Select	ore control direitor and a	ted it torthis scores
Q	a0b4935b	
-to	babyroom	
0	a064941f	
Q	a0b49377	
0	a0b417ac	
	Gree Air Puri	Ĩer

(4) Link(This function is applicable to some models)

Select a master device. When the environment satisfies the parameters as set in the master device, slave devices will execute commands to realize devices linkage.

Step 1: Set the parameters of master device (Select master device, select environment parameters, select master device status).

Tap + at the top right corner of the homepage "Device". Select "Link" and enter the page "Add linkage". Tap "Device/Param" to enter the page "Select device". Take "baby room" as an example. Tap "babyroom".

	No SIM Care 🖪 🖩 👘 💎 10	as 💼 21:16	No SM Card 🛐 🔳 👘 😤 100% 🛢 11:17
	Add linkage	Save	Select execution device
	Device/ambient parameter/Click	to select	Gree AC
			Gree AC
	then		
	Executive command / Click to sele	dt.	
			Gree MC
Enter the page "Select environment para	ameters".	1	
		C Select environment p	ar Comiso Da., Save
		When babysours	
		Sector and and a sector of the sector	
		°CTemp	
		(C)Mode	
		Oonoff	

Tap "Temperature" to enter the page "Select temperature parameter". Slide up or down to adjust temperature. Tap "Upper limit" or "Lower limit".

Tap "Mode" and "On/Off" to select the status of master device. Then tap "Save".

PO T at 1450	Select environment	al Da
	When the second state of t	
30	(induction) processing (secondary	
16	*Ctemprist.	
I U ec	₩blocc	
17	() din/off	
imit setting (poor line) Lowar line)	DEE	
our limit. Execute command, when temperature times to the act unmet limit.	ON	_
ower limit: Execute command when temperature drops to the eat lower limit.	Cancel	

Step 2: Set time parameter for linkage. Tap "Time parameter" to enter the page "Set time". Slide ______ rightwards to turn on the setting time.

는 이 큰 영 영 상 옷이 너희 (H)는 6 41 PM		1961 25 48 10 10
K Add linkage Save	< Set	time sa
*	Set time	0
Device/Param/ Title to select		
Time parameter/		
free		
Execute command/Tap to select		

Tap "Execution time"; then tap "Start" and "Stop" to set start time and stop time respectively. Tap "OK" at the top right corner to save the setting.



Tap the days below "Repeat" to select the repeating days. Then tap "Save".

<	Set time	Save		
Set time				
Execution time		00.00-23.59		
Repeat				
Man Tue	vied Thu Fri	Sat Sun		
		00		

Step 3: Select "Execute command" Tap "Execute command" and enter the page "Select device".



Tap the name of device that you want to control. Tap "ON" or "OFF" and then tap "Save" to complete the linkage.



Tap "Save" and then repeat the above steps to set linkage of several scenes.

180 🗊 📶 📱 15.12	040 🖓 🖬 🗓 15 1
List of linked device +	< List of linked device +
H When babyroomopen,ModeEqualCool,Te	🛠 When babyroomopen,ModeEqualCool,Te 🔍
	When batywoomCloss,ModeEgualHeat,T 0000-33.99 Effective the exame day

4.Menu functions

Menu functions (Share, Set, History, Feedback)

(1) Share: To share quick configuration information and unit's information, including local export and local import. For local import, you just need to tap "Local import" and wait for the data download.

Local export

Step 1: Export local data to another smart phone.

Enter menu page on the left side and tap "Share" to enter the page "Share". Then tap "Local export".



Step 2: Another smart phone to be imported. Tap the model name and wait for the download.



Notice:

This function requires that the two phones are of the same operating system. They are either Android phones or Apple phones, and are connecting to the same wireless router.

(2) Backup: To keep backup of the quick configuration information and unit's information, including backup to cloud and backup list on the cloud.

Backup to cloud

Enter the menu page on the left and tap "Backup".



Tap "Backup to cloud" and then tap "Yes". Then wait for the data download.



Select "Backup list on the cloud". Then backup records will appear. Tap "Record" to download data and recover data to local unit.



(3) Settings

User can set vibration, message alerts, server, updates, etc. The server setting here must be the same as the server setting in "Configuration" mentioned before.

Otherwise, remote control will be invalid.



(4) Help Please refer to "Help" of APP for the instruction of the latest functions.

6.4 Brief Description of Modes and Functions

1. Temperature Parameters

Indoor preset temperature (T_{preset})

Indoor ambient temperature (T amb.)

2. Basic Functions

Once energized, in no case should the compressor be restarted within less than 3 minutes. In the situation that memory function is available, for the first energization, if the compressor is at stop before de-energization, the compressor will be started without a 3-minute lag; if the compressor is in operation before de-energization, the compressor will be started with a 3-minute lag; and once started, the compressor will not be stopped within 6 minutes regardless of changes in room temperature.

(1)Cooling Mode

① The condition and process of cooling

If T_{amb.} >T_{preset} cooling mode will act, the compressor and outdoor fan will run, and the indoor fan will run at the set speed.

If $T_{amb} \leq T_{preset} - 2^{\circ}C(3.6^{\circ}F)$, the compressor will stop, the outdoor fan will delay 30 seconds to stop, and the indoor fan will run at the set speed. If $T_{preset} - 2^{\circ}C(3.6^{\circ}F) < T_{amb} - < T_{preset}$, the unit will keep running in the previous mode.

When $0 \le T_{preset} - T_{amb.} \le 2^{\circ}C(3.6^{\circ}F)$, if indoor fan speed is high, it will turn to medium fan speed; if indoor fan speed is medium or low, it will keep the same; (this condition will be valid only when the compressor is operating); if indoor fan speed is super high, it will keep the same; When $T_{amb} - T_{preset} \ge 1^{\circ}C(1.8^{\circ}F)$, the fan speed will return to set fan speed;

In this mode, the reversal valve will not be powered on and the temperature setting range is 16~30°C(68~86°F).



② Protection function

Overcurrent protection

If total current is high, the compressor will run in limited frequency. If total current is too high, the compressor will stop, the outdoor fan will delay 30 seconds to stop, indoor unit will display E5 and out door yellow light will blink 5 times.

Antifreezing protection

When the antifreezing protection is detected, the compressor will stop, the outdoor fan will stop after 30 seconds, and the indoor fan and swing motor will keep running in the original mode. When antifreezing protection is eliminated and the compressor has stopped for 3 minutes, the compressor will resume running in the original mode.



(2) Dehumidifying Mode

① Working conditions and process of dehumidifying

If T_{amb.}>T_{preset}, the unit will enter cooling and dehumidifying mode, in which case the compressor and the outdoor fan will operate and the indoor fan will run at low speed.

If T_{preset} -2°C(3.6°F)≤ T_{amb} .≤ T_{preset} , the compressor remains at its original operation state.

If T_{amb.}< T_{preset}-2°C(3.6°F), the compressor will stop, the outdoor fan will stop with a time lag of 30s, and the indoor fan will operate at low speed. (2) Protection function

Protection is the same as that under the cooling mode.

(3) Heating Mode

① The condition and process of heating

If T_{amb.} \leq T_{preset}+2°C(3.6°F), heating mode will act, the compressor, outdoor fan and reversal valve will run, the indoor fan will delay 3min to stop at the latest

If T_{preset} +2°C(3.6°F)<T_{amb.}<T_{preset} +5°C(9°F), the unit will keep running in the original mode.

If T_{amb}.≥T_{preset}+5°C(9°F), the compressor will stop, the outdoor fan will delay 30s to stop and indoor fan will blow 60s at low speed, the fan speed cannot be shifted within blow residual heat.

In this mode, the temperature setting range is 16 ~30°C(68~86°F).

• The air conditioner will adjust the running frequency of the compressor automatically according to the change of ambient temperature.

• When the unit is turned off in heating mode, or switched to other mode from heating mode, the four-way valve will be powered off after the compressor stops.



When compressor is running (not including each malfunction and protection):

a.When outdoor ambient temperature ≥ 20°C(68°F) and indoor fan speed is low or medium, the fan speed will turn to high; if indoor fan speed is high or super high, it will keep the same.

b.When outdoor ambient temperature≤18°C(64.4°F), the fan speed will resume set fan speed.

c. When 18°C<outdoor ambient temperature<20°C(68F), it will run at present fan speed (set fan speed or high fan speed); but when first exiting cold air prevention after entering heating mode, it will run in set fan speed.



2 Condition and process of defrost

When duration of successive heating operation is more than 45 minutes, or accumulated heating time more than 90 minutes, and one of the following conditions is reached, the unit will enter the defrost mode after 3 minutes.

(1). T outdoor ambient > 5°C(41°F), T outdoor tube≤-2°C(28.4°F);

(2) -2°C≤T outdoor ambient < 5°C(41°F),, T outdoor tube≤-6°C(21.2°F);

(3) -5°C≤T outdoor ambient < -2°C(28.4°F), T outdoor tube≤-8°C(17.6°F);

(4)-10°C≤T outdoor ambient < -5°C(23°F);, T outdoor tube-T compensatory ≤ (T outdoor ambient-3°C(5.4°F))

(5)T outdoor ambient < -10°C(14°F), T outdoor tube-T compensatory \leq (T outdoor ambient-3°C(5.4°F))

(after energizing, T compensatory=0°C(32°F) during the first defrosting; if it is not the first defrosting, T compensatory is confirmed by T outdoor tube of quitting last defrosting: a. when T outdoor tube $> 2^{\circ}C(35.6^{\circ}F)$, T compensatory=0°C(32°F); b. when T outdoor tube $\le 2^{\circ}C(35.6^{\circ}F)$, T compensatory=3°C(37.4°F))

At that time, the indoor fan stops and the compressor stops, and after 30 seconds the outer fan will stop, and then after 30 seconds, the fourway valve will stop. After 30 seconds, the compressor is initiated for raising the frequency to defrost frequency. When the compressor has operated under defrost mode for 7.5 minutes, or T outdoor ambient $\geq 10^{\circ}$ C, the compressor will be converted to 46Hz operation. After 30 seconds, the compressor will stop. And after another 30 seconds, the four-way valve will be opened, and after 60 seconds, the compressor and the outer fan will be started, the indoor fan will run under preset cold air prevention conditions, and H1 will be displayed at temperature display area on the display panel. Defrost frequency is 85Hz.

③ Protection

Cold air prevention

The unit is started under heating mode (the compressor is ON):

(1) In the case of T indoor amb. <24°C(75.2°F): if T tube<40°C(104°F) and the indoor fan is at stop state, the indoor fan will begin to run at low speed with a time lag of 2 minutes. Within 2 minutes, if T tube>40°C(104°F), the indoor fan also will run at low speed; and after 1-minute operation at low speed, the indoor fan will be converted to operation at preset speed. Within 1-minute low speed operation or 2-minute nonoperation, if T tube>42°C(107.6°F), the fan will run at present speed.

② In the case of T indoor amb. ≥24°C(75.2°F): if T tube≤42°C(107.6°F), the indoor fan will run at low speed, and after one minute, the indoor fan will be converted to preset speed. Within one-minute low speed operation, if T tube>42°C(107.6°F), the indoor fan will be converted to preset speed.

Note: T indoor amb. indicated in ① and ② refers to, under initially heating mode, the indoor ambient temperature before the command to start the compressor is performed according to the program, or after the unit is withdrawn from defrost, the indoor ambient temperature before the defrost symbol is cleared.

(5) Fan Mode

Under the mode, the indoor fan will run at preset speed and the compressor, the outdoor fan, the four-way valve and the electric heater will stop.

Under the mode, temperature can be set within a range of 16~30°C(60.8~86°F).

(6)AUTO Mode

① Operation way of AUTO mode

a.When Tambient≥26°C(78.8°F), it will run in cooling mode. The implied set temperature is 25°C(77°F) (note: the set temperature sending to outdoor unit is 25°C(77°F)).

b.For heating and cooling unit, when Tambient≤22°C(71.6°F), it will run in heating mode. The implied set temperature is 20°C(68°F); for cooling only unit, when Tambient≤22(71.6°F)°C, it will run in fan mode and the displayed set temperature is 25°C(77°F).

c.For heating and cooling unit, when 22°C(71.6°F)<Tindoor ambient<26°C(78.8°F) (for cooling only unit, 22°C(71.6°F)<Tindoor ambient<26°C)(78.8°F), it will keep the original running mode. If the unit is energized for the first time, it will run in fan mode. (2) Protection

a. In cooling operation, protection is the same as that under the cooling mode;

b. In heating operation, protection is the same as that under the heating mode;

c. When ambient temperature changes, operation mode will be converted preferentially. Once started, the compressor willremain unchanged for at least 6 minutes.

(7)Common Protection Functions and Fault Display under COOL, HEAT, DRY and AUTO Modes

① Overload protection

T_{tube}: measured temperature of outdoor heat exchanger under cooling mode; and measured temperature of indoor heat exchanger under heating mode.

1) Cooling overload

a.If T tube≤52°C(125.6°F), the unit will return to its original operation state.

b.If T tube≥55°C(131°F), frequency rise is not allowed.

c.If T tube≥58°C(136.4°F), the compressor will run at reduced frequency.

d.If T tube≥62°C(143.6°F), the compressor will stop and the indoor fan will run at preset speed.

2) Heating overload

a.If T tube≤50°C(122°F), the unit will return to its original operation state.

b.If T tube≥53°C(127.4°F), frequency rise is not allowed.

c.If T tube≥56°C(132.8°F), the compressor will run at reduced frequency.

d.If T tube≥60°C(140°F), the compressor will stop and the indoor fan will blow residue heat and then stop.

2 Exhaust temperature protection of compressor

If exhaust temperature≥98°C(208.4°F), frequency is not allowed to rise.

If exhaust temperature≥103°C(217.4°F), the compressor will run at reduced frequency.

If exhaust temperature≥110°C(230°F),, the compressor will stop.

If exhaust temperature≤90°C(194°F), and the compressor has stayed at stop for at least 3 minutes, the compressor will resume its operation. ③ Communication fault

If the unit fails to receive correct signals for durative 3 minutes, communication fault can be justified and the whole system will stop. ④ Module protection

Under module protection mode, the compressor will stop. When the compressor remains at stop for at least 3 minutes, the compressor will resume its operation. If module protection occurs six times in succession, the compressor will not be started again.

(5) Overload protection

If temperature sensed by the overload sensor is over 115, the compressor will stop and the outdoor fan will stop with a time lag of 30 seconds. If temperature is below 95, the overload protection will be relieved.

OC bus voltage protection

If voltage on the DC bus is below 150V or over 420V, the compressor will stop and the outdoor fan will stop with a time lag of 30 seconds. When voltage on the DC bus returns to its normal value and the compressor has stayed at stop for at least 3 minutes, the compressor will resume its operation.

⑦ Faults of temperature sensors

Designation of sensors	Faults					
Indoor ambient temperature	The sensor is detected to be open-circuited or short-circuited for successive 5 seconds					
Indoor tube temperature	The sensor is detected to be open-circuited or short-circuited for successive 5 seconds					
Outdoor ambient temperature	The sensor is detected to be open-circuited or short-circuited for successive 30 seconds					
Outdoor tube temperature	The sensor is detected to be open-circuited or short-circuited for successive 30 seconds, and no detection is performed within 10 minutes after defrost begins.					
Exhaust	After the compressor has operated for 3 minutes, the sensor is detected to be open-circuited or short-circuited for successive 30 seconds.					
Overload	After the compressor has operated for 3 minutes, the sensor is detected to be open-circuited or short-circuited for successive 30 seconds.					

3. Other Controls

(1) ON/OFF

Press the remote button ON/OFF: the on-off state will be changed once each time you press the button.

(2) Mode Selection:

Press the remote button MODE, then select and show in the following ways: AUTO, COOL, DRY, FAN, HEAT, AUTO.

(3) Temperature Setting Option Button

Each time you press the remote button TEMP+ or TEMP-, the setting temperature will be up or down by 1°C(1.8°F). Regulating Range: 16(60.8°F)~30°C(86°F), the button is useless under the AUTO mode.

(4) Time Switch

You should start and stop the machine according to the setting time by remote control.

(5) SLEEP State Control

1. In cooling mode:

1.1 When the initial set temperature is16-23°C(60.8~73.4°F), the temperature will rise 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after rising 3°C(5.4°F); after running for 7hours, the temperature will decrease1°C(1.8°F) and it will not change after that.

1.2 When the initial set temperature is 24-27°C(75.2~80.6°F), the temperature will rise 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after rising 2°C(3.6°F) ; after running for 7 hours, the temperature will decrease 1°C(1.8°F) and it will not change after that.

1.3 When the initial set temperature is 28-29°C(82.4~84.2°F), the temperature will rise 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after rising 1°C(1.8°F); after running for 7 hours, the temperature will decrease 1°C(1.8°F) and it will not change after that.

1.4 When the initial set temperature is 30°C(86°F), the unit will keep on running at this temperature; after running for 7 hours, the temperature will decrease 1°C(1.8°F) and it will not change after that.

Relationship between set temperature and running time:

Initial Temp.	Running time(T)									
0(start)	1	2	3	4	5	6	7	8		
16	17	18	19	19	19	19	18	18		
17	18	19	20	20	20	20	19	19		
18	19	20	21	21	21	21	20	20		
19	20	21	22	22	22	22	21	21		
20	21	22	23	23	23	23	22	22		
21	22	23	24	24	24	24	23	23		
22	23	24	25	25	25	25	24	24		
23	24	25	26	26	26	26	25	25		
24	25	26	26	26	26	26	25	25		
25	26	27	27	27	27	27	26	26		
26	27	28	28	28	28	28	27	27		
27	28	29	29	29	29	29	28	28		
28	29	29	29	29	29	29	28	28		
29	30	30	30	30	30	30	29	29		
30	30	30	30	30	30	30	29	29		

2. In heating mode:

2.1 When the initial set temperature is 16°C(60.8°F), the unit will keep on running at this temperature;

2.2 When the initial set temperature is 17-20°C(62.6~68°F), the temperature will decrease 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after decreasing 1°C(1.8°F);

2.3 When the initial set temperature is 21-27°C(69.8~80.6°F), the temperature will decrease 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after decreasing 2°C(3.6°F);

2.4 When the initial set temperature is 28-30°C(82.4~86°F), the temperature will decrease 1°C(1.8°F) by every hour after sleep function is set; the temperature will not change after decreasing 3°C(5.4°F);

Relationship between set temperature and running time:

Initial Temp.	D. Running time(T)								
0(start)	1	2	3	4	5	6	7	8	
16	16	16	16	16	16	16	16	16	
17	16	16	16	16	16	16	16	16	
18	17	17	17	17	17	17	17	17	
19	18	18	18	18	18	18	18	18	
20	19	19	19	19	19	19	19	19	
21	20	19	19	19	19	19	19	19	
22	21	20	20	20	20	20	20	20	
23	22	21	21	21	21	21	21	21	
24	23	22	22	22	22	22	22	22	
25	24	23	23	23	23	23	23	23	
26	25	24	24	24	24	24	24	24	
27	26	25	25	25	25	25	25	25	
28	27	26	25	25	25	25	25	25	
29	28	27	26	26	26	26	26	26	
30	29	28	27	27	27	27	27	27	

(6) Indoor Fan Control

Indoor fan could be set at ultra-high, high, medium, low speed by wireless remote controller and operated as that speed. Auto fan speed could be set as well, indoor fan will operate under auto fan speed as following:

Service Manual

- 1. Under heating mode: auto speed under heating or auto heating mode:
- a. When T_{amb} \leq T_{preset}+1°C(1.8°F), indoor fan will operate at high speed;
- b. When $T_{preset}+1^{\circ}C(1.8^{\circ}F) < T_{amb.} < T_{preset}+3^{\circ}C(5.4^{\circ}F)$, indoor fan will operate at medium speed;
- c. When T_{amb.}≥T_{preset}+3°C(5.4°F), indoor fan will operate at low speed;
- There should be at least 180s operation time during switchover of each speed.
- 2. Under cooling mode: auto speed under cooling or auto cooling mode:
- a. When T_{amb.}≥T_{preset}+2°C(3.6°F), indoor fan will operate at high speed;
- b. When T_{preset}<T_{amb.}<T_{preset}+2°C(3.6°F), indoor fan will operate at medium speed;
- c. When T_{amb.}≤T_{preset}, indoor fan will operate at low speed

There should be at least 210s operation time during switchover of each speed.

(7) Buzzer Control

The buzzer will send a "Di" sound when the air conditioner is powered up or received the information sent by the remote control or there is a button input, the single tube cooler doesn't receive the remote control ON signal under the mode of heating mode.

(8) Auto button

If the controller is on, it will stop by pressing the button, and if the controller is off, it will be automatic running state by pressing the button, swing on and light on, and the main unit will run based on the remote control if there is remote control order.

(9) Up-and-Down Swinging Control

When power on, the up-and-down motor will firstly move the air deflector to o counter-clockwise, close the air outlet.

After starting the machine, if you don't set the swinging functi on,

heating mode and auto-heating mode, the up-and-down air deflector will move to D clockwise; under other modes, the up-and-down air

deflector will move to L1. If you set the swinging function when you start the machine, then the wind blade will swing between L and D. The air

deflector has 7 swinging states: Location L, Location A, Location B, Location C,

Location D, Location L to Location D, stop at any location between L-D (the included angle between L~D is the same).

The air deflector will be closed at 0 Location, and the swinging is effectual only on condition that setting the swinging order and the inner fan is running. The indoor fan and compressor may get the power when air deflector is on the default location.

(10) Display

① Operation pattern and mode pattern display

All the display patterns will display for a time when the power on, the operation indication pattern will display in red under standby status. When the machine is start by remote control, the indication pattern will light and display the current operation mode (the mode light includes: Cooling, heating and dehumidify). If you close the light key, all the display patterns will close.

② Double-8 display

According to the different setting of remote control, the nixie light may display the current temperature (the temperature scope is from $16^{\circ}C$ ($60.8^{\circ}F$)to $30^{\circ}C(86^{\circ}F)$) and indoor ambient temperature. The set temperature displayed in auto cooling and fan mode is $25^{\circ}C(77^{\circ}F)$ and the set temperature displayed in auto heating mode is $20^{\circ}C(68^{\circ}F)$. Under heating mode, nixie tube displays H1 or heating indicator is off 0.5s and blinks 10s in defrosting.(If you set the fahrenheit temperature display, the nixie light will display according to fahrenheit temperature)(11) Protection function and failure display

E2: Freeze-proofing protection E4: Exhausting protection E5: Overcurrent protection E6: Communication failure

- F1: Indoor ambient sensor start and short circuit (continuously measured failure in 5s)
- F2: Indoor evaporator sensor start and short circuit (continuously measured failure in 5s)
- F3: Outdoor ambient sensor start and short circuit (continuously measured failure in 30s)

F4: Outdoor condenser sensor start and short circuit (continuously measured failure in 30s, and don't measure within 10 minutes after defrosted)

F5: Outdoor exhausting sensor start and short circuit (continuously measured failure in 30s after the compressor operated 3 minutes)

- H3: Overload protection of compressor H5: Module protection PH: High-voltage protection PL: Low-voltage protection
 - P1: Nominal cooling and heating test
- P2: Maximum cooling and heating test
- P3: Medium cooling and heating test
- P0: Minimum cooling and heating test
- (12) Drying Function

You may start or stop the drying function under the modes of cooling and dehumidify at the starting status (The modes of automatism, heating and air supply do not have drying function). When you start the drying function, after stop the machine by pressing the switch button, you should keep running the inner fans for 2 minutes under low air damper (The swing will operate as the D1 status within 2 minutes, and other load is stopped), then stop the entire machine; When you stop the drying function, press the switch button will stop the machine directly. When you start the drying function, operating the drying button will stop the inner fans and close the guide louver. (13) Memory Function

When interrupting the power supply memory content: mode, swing function, light, set temperature and wind speed.

After interrupted the power supply, the machine will start when recovering the power according to the memory content automatically.



Part II: Installation and Maintenance

7. Notes for Installation and Maintenance

Safety Precautions: Important!

Please read the safety precautions carefully before installation and maintenance.

The following contents are very important for installation and maintenance.

Please follow the instructions below.

•The installation or maintenance must accord with the instructions.

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

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

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

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

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



Electrical Safety Precautions:

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

 The air condition must apply specialized circuit and prohibit share the same circuit with other appliances.
 The air conditioner should be installed in suitable

location and ensure the power plug is touchable.

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

5. Have the unit adequately grounded. The grounding wire can't be used for other purposes.

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

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

neutral wire and grounding wire of the air conditioner. 8. The power cord and power connection wires can't be pressed by hard objects.

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

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

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

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

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

14. Replace the fuse with a new one of the same specification if it is burnt down; don't replace it with a cooper wire or conducting wire.

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

Installation Safety Precautions:

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

 Handle unit transportation with care; the unit should not be carried by only one person if it is more than 20kg.
 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. Avoid contact between refrigerant and fire as it generates poisonous gas; Prohibit prolong the connection pipe by welding.

2. 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.

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

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

5. 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. 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 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 equipment's 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)

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
	floor location	1	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	/	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	/	1.6	1.9	2.1	2.4	2.8	3.1	3.4	3.8	4.2	4.6	5	5.5	6
	ceiling mounted	1	1.1	1.3	1.4	1.6	1.8	2.1	2.3	2.6	2.8	3.1	3.4	3.7	4

Maintenance notes

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

- It's only allowed to be operated in the rooms that meet the requirement of the nameplate.

•Check whether the maintenance area is well-ventilated.

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

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

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

•Check whether the appliance mark is in good condition.

- Replace the vague or damaged warning mark.

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 isn't any naked flame near the outlet of the vacuum pump and it's 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 won't 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 haven't finished).

•Don't overfilling.

•After filling is finished, please do the leakage detection before test running; another time of leak detection should be done when it's 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

1. Level meter, measuring tape	2. Screw driver	3. Impact drill, drill head, electric drill
4. Electroprobe	5. Universal meter	6. Torque wrench, open-end wrench, inner hexagon spanner
7. Electronic leakage detector	8. Vacuum pump	9. Pressure meter
10. Pipe pliers, pipe cutter	11. Pipe expander, pipe bender	12. Soldering appliance, refrigerant container
	R.O.	

8. Installation

8.1 Installation Dimension Diagram



Installation procedures



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

8.2 Installation Parts-checking

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

▲ Note:

1.Please contact the local agent for installation.

2.Don't use unqualified power cord.

8.3 Selection of Installation Location

1. Basic Requirement:

Installing the unit in the following places may cause

malfunction. If it is unavoidable, please consult the local dealer: (1) The place with strong heat sources, vapors, flammable or explosive gas, or volatile objects spread in the air.

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

(3) The place near coast area.

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

(5) The place with sulfureted gas.

(6) Other places with special circumstances.

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

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 andwon't affect other people.

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

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

(5) The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.

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

(7) Don't install the indoor unit right above the electric appliance.

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

3. Outdoor Unit:

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

(2) The location should be well ventilated and dry, in which the outdoor unit won't be exposed directly to sunlight or strong wind.

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

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

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

8.4 Electric Connection Requirement

1. Safety Precaution

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

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

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

Air-conditioner	Air switch capacity					
18/24K	25A					

(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) For appliances with type Y attachment, the instructions shall contain the substance of the following. 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 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)

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 (ST4.2X25TA) and then check if the frame is firmly installed by pulling the frame. If the plastic expansion particle is loose, please drill another fixing hole nearby.

3. Install Wall-mounting Frame

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



Fig.1

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





A Note:

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

(2) The plastic expansion particles are not provided and should be bought locally.

4. Outlet Pipe

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

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



5. Connect the Pipe of Indoor Unit

(1) Aim the pipe joint at the corresponding bellmouth.(As show in Fig.5)

(2) Pretightening the union nut with hand.

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

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



Refer to the following table for wrench moment of force:

Hex nut diameter(mm)	Tightening torque(N·m)
Φ6	15~20
Φ9.52	30~40
Φ12	45~55
Φ16	60~65
Φ19	70~75

6. Install Drain Hose

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

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



▲ Note:

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

(2) The plastic expansion particles are not provided.

(As show in Fig.10)



7. Connect Wire of Indoor Unit

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



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 wire and signal control wire to the wiring terminal according to the color; tighten the screw and then fix them with wire clip.(As show in Fig.13)



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

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

(5) Close the panel.

▲ Note:

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

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

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

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

8. Bind up Pipe

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

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

(3) Bind them evenly.

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





A Note:

(1) The power cord and control wire 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)



A Note:

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

8.6 Installation of Outdoor Unit

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

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

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

▲ 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.(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 handle and valve cover of outdoor unit and then remove the handle and valve cover.(As show in Fig.21)

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



(3) Pretightening the union nut with hand.

(4) Tighten the union nut with torque wrench .

Refer to the following table for wrench moment of force:

Hex nut diameter(mm)	Tightening torque(N·m)					
Φ6	15~20					
Φ9.52	30~40					
Φ12	45~55					
Ф16	60~65					
Ф19	70~75					

5. Connect Outdoor Electric Wire

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



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

(2) Fix the power connection wire and signal control wire with wire clip.

▲ Note:

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

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

6. Neaten the Pipes

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

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



A Note:

(1) The through-wall height of drain hose shouldn't 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)





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	The unit may drop, shake or			
2	installed firmly?	emit noise.			
2	Have you done the	It may cause insufficient cooling			
2	refrigerant leakage test?	(heating) capacity.			
3	Is heat insulation of	It may cause condensation and			
	pipeline sufficient?	water dripping.			
4	Is water drained well?	It may cause condensation and			
	is water dramed wen:	water dripping.			
	Is the voltage of power				
5	supply according to the	It may cause malfunction or			
ĭ	voltage marked on the	damage the parts.			
	nameplate?				
	Is electric wiring and	It may cause malfunction or			
6	pipeline installed	damage the parts.			
	correctly?				
7	Is the unit grounded	It may cause electric leakage.			
8	securely?	, , , , , , , , , , , , , , , , , , ,			
8	Does the power cord	It may cause malfunction or			
	follow the specification?	damage the parts.			
9	Is there any obstruction	It may cause insufficient cooling			
	in air inlet and air outlet?	(heating) capacity.			
	The dust and	u (r. 1)			
10	sundries caused	It may cause malfunction or			
	during installation are	damaging the parts.			
<u> </u>	removed?				
	The gas valve and liquid	It may cause insufficient cooling			
11	valve of connection pipe	(heating) capacity.			
<u> </u>	are open completely?				
10	is the inlet and outlet	It may cause insufficient cooling			
12	or piping noie been	(neating) capacity or waster			
	covered?	leietricity.			

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. Maintenance

9.1 Error Code List

			play Metho	d of Indoo	r Unit	Display Method of Outdoor				
NO.	Malfunction Name	Dual-8 Code	Indicator E blinking, C 0.5s)	Display (du DN 0.5s an	uring nd OFF	Indicator display st blinking, 9	Unit has 3 kini atus and ON 0.5s a	ds of during and OFF	A/C status	Possible Causes
		Display	Operation Indicator	Cool Indicator	Heating Indicator	Yellow Indicator	Red Indicator	Green Indicator		
1	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.
2	Antifreezing protection	E2				OFF 1S and blink 3 times			During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates.	 Poor air-return in indoor unit; Fan speed is abnormal; Evaporator is dirty.
3	Refrigerant leakage protection	F0					OFF 1S and blink 9 times		The Dual-8 Code Display will show F0 and the complete unit stops.	 Refrigerant leakage; Indoor evaporator temperature sensor works abnormally; The unit has been plugged up somewhere.
4	High discharge temperature protection of compressor	E4				OFF 1S and blink 7 times			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).
5	Overcurrent protection	E5				OFF 1S and blink 5 times			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.
6	Communi- cation Malfunction	E6				Always			During cooling operation, compressor stops while indoor fan motor operates. During heating operation, the complete unit stops.	Refer to the corresponding malfunction analysis.
7	High temperature resistant protection	E8				OFF 1S and blink 6 times			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).
8	EEPROM malfunction	EE				OFF 1S and blink 11 times			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
9	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.
10	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.

						Display	Method of	Outdoor			
		Dis	play Metho	d of Indoo	r Unit	Display .	Unit	Outdoo			
			Indicator Display (during al-8 blinking, ON 0.5s and OFF			Indicator	has 3 kind	ds of	1		
NO. N	Malfunction					display status and during			A/O status		
	Name	Codo				blinking,	ON 0.5s a	nd OFF	A/C status	Possible Causes	
		Display		22.0		0.5s	25 3 1				
			Operation	Cool	Heating	Yellow	Red	Green			
			Indicator	Indicator	Indicator	Indicator	Indicator	Indicator			
	rada and the state					OFF 1S			When the outdoor unit receive		
11	Gathering	Fo				and blink			,the system will be forced to	Nominal cooling mode	
	reingerant					17 times			run under cooling mode for		
									gathering refrigerant		
										1. Loosening or bad contact of indoor ambient temp, sensor and	
	Indoor								During cooling and drying	mainboard terminal.	
10	temperature	E1							while other loads will stop:	2. Components in mainboard fell	
12	sensor is	F1							during heating operation,	3. Indoor ambient temp. sensor	
	circuited								operation.	damaged.(check with sensor	
										resistance value chart) 4 Mainboard damaged	
	-	-			· · · · · · · · ·			-		1 Loosening or bad contact of	
										Indoor	
	Indoor								AC stops operation once	evaporator temp. sensor and	
	evaporator								temperature Cooling drving	2. Components on the mainboard	
13	temperature	F2							internal fan motor stops	fall	
	sensor is								operation while other loads	3. Indoor evaporator temp, sensor	
	circuited								stop operation; heating: AC	damaged.(check temp. sensor	
									stop operation	value chart for testing)	
										4. Mainboard damaged.	
	Outdoor						OFF 1S		During cooling and drying	Outdoor temperature sensor	
	temperature						and		while indoor fan operates:	hasnt been connected well or	
14	sensor is	F3					blink 6 times		During heating operation,	is damaged. Please check it by	
	open/short								the complete unit will stop	temperature sensor)	
	Outdoor								During cooling and drying	Outdoor tomporature concor	
	condenser	lenser					OFF 1S		operation, compressor stops	hasnt been connected well or	
15	temperature sensor is	F4					blink		During heating operation.	is damaged. Please check it by	
	open/short						5 times		the complete unit will stop	referring to the resistance table for	
	circuited								operation.		
	Outdoor								During cooling and drying operation, compressor will sop	1.Outdoor temperature sensor hasnt been connected well or is	
	discharge						OFF 1S		after operating for about 3	damaged. Please check it by	
16	temperature	F5					and		mins, while indeer fan will operate:	referring to the resistance table for	
	open/short						7 times		During heating operation, the	2.The head of temperature sensor	
	circuited								complete unit will stop after	hasnt been inserted into the copper	
-	Limit/								operating for about 3 mins.	tube	
	decrease						OFF 1S		All loads operate normally,	Refer to the malfunction analysis	
17	frequency	F6					blink		operation frequency for	(overload, high temperature	
	overload						3 times		compressor is decreased	resistant)	
(1274)-1	Decrease	2012/0-10					OFF 1S		All loads operate normally,	The input supply voltage is too low;	
18	due to	F8					blink		operation frequency for	System pressure is too high and	
	overcurrent						once		compressor is decreased	ovendau	

		Dist	olav Methoo	d of Indoo	r Unit	Display Method of Outdoor				
						Indicator	Unit has 3 kine	ds of		Percible Courses
NO	Malfunction	Dual 9	blinking, ON 0.5s and OFF 0.5s)			display s	tatus and	during	A/C status	
NO.	Name	Code				blinking, ON 0.5s and OFF			ACSIAUS	Possible Gauses
		Display	Operation	Cool	Heating	Yellow	Red	Green		
			Indicator	Indicator	Indicator	Indicator	Indicator	Indicator		
	Decrease						OFF 1S		All loads operate normally,	Overload or temperature is too
19	due to	F9					and		while	Refrigerant is insufficient;
	high air						twice		compressor is decreased	Malfunction of electric expansion
	discharge									valve (EKV)
	decrease						OFF 1S		All loads operate normally,	
20	frequency	FH					and blink		while operation frequency for	Poor air-return in indoor unit or fan speed is too low
	due to antifreezing						4 times		compressor is decreased	
	difuir ocering		. ()		·					1. Measure the voltage of position
									During cooling and drying	L and N on wiring board (XT), if the
						OFF 1S			operation, compressor will stop	on the unit after the supply voltage
21	Voltage for DC bus-bar	PH				and			while indoor fan will operate; During heating operation, the complete unit will stop	is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1)
	is too high	h				13 times				
									operation.	if its normal, theres malfunction
										for the circuit, please replace the control panel (AP1)
										1. Measure the voltage of position
		PL								L and N on wiring board (XT), if the
									During cooling and drying operation, compressor will stop while indoor fan will operate;	turn on the unit after the supply
	Voltage of					OFF 1S				voltage is increased to the normal
22	DC bus-bar					and blink				range. 2 If the AC input is normal
	is too low					12 times			During heating operation, the complete unit will stop	measure the voltage of electrolytic
										capacitor C on control panel (AP1),
										for the circuit, please replace the
										control panel (AP1)
	0									
22	Compressor Min	PO								Showing during min. cooling or
20	frequence in test state	FV								min. heating test
24	Compresso r rated	D1								Showing during nominal cooling or
24	frequenc e in test state									nominal heating test
	Compressor									
25	maximum	P2								Showing during max. cooling or
110000000	test state	020020								max. heating test

		Dis	olay Metho	d of Indoo	r Unit	Display I	Method of	Outdoor			
NO.	Malfunction Name	Dual-8 Code Display	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C status	Possible Causes	
			Operation Indicator	Cool Indicator	Heating Indicator	Yellow Indicator	Red Indicator	Indicator			
26	Compressor intermediate frequence in test state	P3								Showing during middle cooling or middle heating test	
27	Overcurrent protection of phase current for compressor	P5							During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.	
28	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	
29	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	
30	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.	
31	Decrease frequency due to high temperature resistant during heating operation	но							All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)	
32	Static dedusting protection	H2									
33	Overload protection for compressor	НЗ				OFF 1S and blink 8 times			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)	

		Display Mathed of Indeer Unit		Display I	Method of	Outdoor					
		Dis	nay weulo		ronit	Unit					
			Indicator Display (during blinking, ON 0.5s and OFF ble 0.5s)			Indicator	has 3 kind	ds of			
NO	Malfunction	Dual-8				display status and during			A/C status	Possible Causes	
	Name	Code				Diinking, UN 0.55 and UFF					
		Display	Operation	Cool	Heating	U.5S		Groon			
		10, 10	Indicator	Indicator	Indicator	Indicator	Indicator	Indicator			
		·							During cooling and drving		
									operation, compressor will stop		
	System is					OFF 1S			while indoor fan will operate;	Refer to the malfunction analysis	
- 34	abnormal	H4	H4			and b 6 tim	6 times			During heating operation, the	(ovenoad, high temperature
									complete unit will stop	(costanty)	
									operation.		
									operation compressor will ston	Refer to the malfunction	
	IPM					OFF 1S			while indoor fan will operate;	analysis (IPM protection, loss	
35	protection	H5				and blink			During heating operation, the	of synchronism protection and	
						4 11103			complete unit will stop	overcurrent protection of phase	
									operation.	compressor.	
							o (a			1. Bad contact of DC motor	
									Internal fan motor, external fan	feedback terminal.	
	Internal motor								motor, compressor and electric heater stop operation,guide louver stops at present location.	2. Bad contact of DC motor	
36	(fan motor) do) do H6								3 Fan motor is stalling.	
	not operate									4. Motor malfunction.	
									io ocaioni.	5. Malfunction of mainboard rev	
										detecting circuit.	
	20000002000								During cooling and drying	Refer to the malfunction	
07	Desynchro-	Н7							while indoor fan will operate; During heating operation, the overcurrent	analysis (IPM protection, loss	
37	nizing of compressor									overcurrent protection of phase	
									complete unit will stop	current for compressor.	
									During cooling and drying		
	DEC	нс				OFF 1S			operation, compressor will stop		
38	PFU protection					and blink			During heating operation the	Refer to the malfunction analysis	
	protection					14 times			complete unit will stop		
	18		-	-	0		9 - E	-	operation.		
	Outdoor DC						OFF 1S		Outdoor DC fan motor	DC fan motor malfunction or	
39	fan motor	L3					and		malfunction lead to compressor	system blocked or the connector	
	malfunction						14 times		stop operation,	loosed	
						OFE 1S			compressor stop operation and	To protect the electronical	
40	power	L9				and blink			30s latter , 3 minutes latter	components when detect high	
35(0)	protection					9 times			fan motor and compressor will	power	
									restart		
	Indoor unit					OFF 1S					
0.1404	and outdoor	LP				and blink			motor can't work	match	
41	unit doesn't match					16 times					
									During cooling and drying		
									operation, compressor will stop		
42	Failure start-	lure start- LC	ilure start- LC	Failure start- LC			while indoor fan will operate; Re		Refer to the malfunction analysis		
	up				20						
		2 V		c	0		· · · · ·		operation.		

	5-	Disp	olay Metho	d of Indoo	r Unit	Display	Method of	Outdoor			
NO. Malfunction Name	Malfunction Name	Dual-8 Code Display	Indicator Display (during blinking, ON 0.5s and OFF 0.5s) Operation Cool Heating			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s Yellow Red Green			A/C status	Possible Causes	
43	Malfunction of phase current detection circuit for compressor	U1	Indicator	Indicator	Indicator	Indicator	Indicator	Indicator	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	
44	Malfunction of voltage dropping for DC bus-bar	U3							During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Supply voltage is unstable	
45	Malfunction of complete units current detection	U5							During cooling and drying operation, the compressor will stop while indoor fan will operate; During heating operating, the complete unit will stop operation.	Theres circuit malfunction on outdoor units control panel AP1, please replace the outdoor units control panel AP1.	
46	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. 	
47	Zero- crossing malfunction of outdoor unit	U9							During cooling operation, compressor will stop while indoor fan will operate; during heating,the complete unit will stop operation.	Replace outdoor control panel AP1	
48	Frequency limiting (power)						OFF 1S and blink 13 times				
49	Compressor running					OFF 1S and blink once					
50	The temperature for turning on the unit is reached						OFF 1S and blink 8 times				
51	Frequency limiting (module temperature)						OFF 1S and blink 11 times				

	1	Display Method of Indoor Lipit				Display Method of Outdoor Unit				1
NO.	Malfunction Name	Dual-8 Code Display	Indicator Display (during blinking, ON 0.5s and OFF 0.5s)			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C status	Possible Causes
			Operation Indicator	Cool Indicator	Heating Indicator	Yellow Indicator	Red Indicator	Green Indicator		
52	Normal communica- tion							OFF 0.5S and blink once		
53	Defrosting		OFF 3S and blink once (during blinking, ON 10s and OFF 0.5s)			OFF 1S and blink twice			Defrosting will occur in heating mode. Compressor will operate while indoor fan will stop operation.	Its the normal state
54	U8								The complete unit stops	1.Power supply is abnormal; 2.Detection circuit of indoor control mainboard is abnormal.
55	Malfunction of detecting plate(WIFI)	JF								

9.2 Procedure of Troubleshooting

1. Malfunction of Temperature Sensor F1, F2

Main detection points:

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

Malfunction diagnosis process:


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?

Malfunction diagnosis process:



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?
- Malfunction diagnosis process:



4. Malfunction of Overcurrent Protection E5

Main detection points:

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



5. Communication Malfunction E6



6. Malfunction of detecting plate(WIFI) JF



Outdoor Unit

1. Capacity charging malfunction (outdoor unit malfunction) (AP1 below means control board of outdoor unit) Main detection points:

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



2. IPM protection(H5), desynchronizing malfunction(H7), overcurrent of compressor phase current (P5) (AP1 below means control board of outdoor unit)

Main detection points:

- Is voltage input within the normal range
- If the control board AP1 is well connected with compressor COMP? If they are loosened? If the connection sequence is correct?
- Heat exchange of unit is not good (heat exchanger is dirty and unit radiating environment is bad);
- If the system pressure is too high?
- If the refrigerant charging amount is appropriate?
- If coil resistance of compressor is normal? Is compressor coil insulating to copper pipe well?
- If the work load of unit is heavy? If radiating of unit is good?

Malfunction diagnosis process:



3. High temperature and overload protection (E8)(AP1 below means control board of outdoor unit) Main detection points:

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



Installation and Maintenance 🔹 🔍 🔍 🔵 🔵

4. Start-up failure (LC) (AP1 below means control board of outdoor unit) Main detection points:

- If the compressor wiring is correct?
- If the stop time of compressor is sufficient?
- If the compressor is damaged?
- If the refrigerant charging amount is too much?



5. Overload and high discharge temperature malfunction

Main detection points:

- If the electronic expansion valve is connected well? Is the electronic expansion valve damaged?
- If the refrigerant is leaked?
- The compressor overload protection terminal is not connected well with the mainboard?
- If the overload protector is damaged?
- Heat exchange of unit is not good? (heat exchanger is dirty and unit radiating environment is bad)
- Too much load of the system causes high temperature of compressor after working for a long time?
- Malfunction of discharge temperature sensor?



6. PFC (correction for power factor) malfunction (outdoor unit malfunction)

Main detection points:

- Check if power plug is connected well with the socket
- Check if the reactor of outdoor unit is damaged?

Malfunction diagnosis process:



7. Communication malfunction (E6)

Main detection points:

Check if the connection wire and the built-in wiring of indoor and outdoor unit are connected well and without damage;

If the communication circuit of indoor mainboard is damaged? If the communication circuit of outdoor mainboard (AP1) is damaged? Malfunction diagnosis process:



9.3 Maintenance Method for Normal Malfunction

1. Air Conditioner Can't be Started Up

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

2. Poor Cooling (Heating) for Air Conditioner

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

3. Horizontal Louver Can't Swing

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

4. ODU Fan Motor Can't Operate

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

5. Compressor Can't Operate

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

6. Air Conditioner is Leaking

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

7. Abnormal Sound and Vibration

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



10. Exploded View and Parts List

10.1 Indoor Unit



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

	Description	Part Code		
No.	Description	GWH18YE-S6DBA2A/I	GWH24YE-S6DBA2A/I	Qty
	Product Code	CB466N00400	CB466N00300	
1	Front Panel(low display)	200003000063	200003000063	1
2	Filter Sub-Assy	11012007	11012007	2
3	Front Case Sub-Assy	0000020006401	0000020006401	1
4	Axile Bush	10542036	10542036	2
5	Guide Louver	10512503	10512503	1
6	Ring of Bearing	26152025	26152025	1
7	O-Gasket of Cross Fan Bearing	76512203	76512203	1
8	Cross Flow Fan	10352057	10352057	1
9	Air Louver(Manual)	10512744	10512744	1
10	Helicoid Tongue	26112513	26112513	1
11	Rear Case assy	00000100170	00000100170	1
12	Evaporator Support	24212178	24212178	1
13	Evaporator Assy	011001000180	011001000095	1
14	Wall Mounting Frame	01252229	01252229	1
15	Drainage Hose	0523001405	0523001405	1
16	Cold Plasma Generator	1114001602	1114001602	1
17	Rubber Plug (Water Tray)	76712012	76712012	1
18	Connecting pipe clamp	26112514	26112514	1
19	Crank	73012005	73012005	1
20	Stepping Motor	1521240210	1521240210	1
21	Motor Press Plate	26112515	26112515	1
22	Fan Motor	1501213601	1501213601	1
23	Screw Cover	22242191	22242191	3
24	Electric Box Assy	100002001817	100002000608	1
25	Electric Box	20112211	2011221102	1
26	Lower Shield of Electric Box	01592139	01592139	1
27	Shield Cover of Electric Box	01592176	01592176	1
28	Display Board	300001000095	300001000095	1
29	Main Board	300002000101	300002000101	1
30	Terminal Board	42011233	42011233	1
31	Electric Box Cover	20112209	2011220901	1
32	Electric Box Cover2	20112210	2011221001	1
33	Shield Cover of Electric Box Cover 2	01202000099	01202000099	1
34	Connecting Cable	4002052317	4002052317	0
35	Connecting Cable	1	1	1
36	Temperature Sensor	3900031302	3900031302	1
37	Remote Controller	30510137	30510137	1
38	Jumper	4202021916	4202021908	1

Above data is subject to change without notice.

10.2 Outdoor Unit



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

No.	Description	Part Code		
		GWH18YE-S6DBA2A/O	GWH24YE-S6DBA2A/O	Qty
	Product Code	CB466W00400	CB466W00300	
1	Front Grill	22415011	22415011	1
2	Fan Motor	15010400000102	15010400000102	1
3	Electric Box (Fireproofing)	1	I	1
4	Radiator	49015215	4901521501	1
5	Main Board	300027000109	300027000308	1
6	Electric Box Assy	100002001814	100002000609	1
7	Electric Box Cover	20125002	20125002	1
8	Terminal Board	420101943	420101943	1
9	Handle	26233053	26233053	2
10	Left Side Plate	01305043P	01305043P	1
11	Coping	01255006P	01255006P	1
12	Motor Support Sub-Assy	017012000017	017012000015	1
13	Condenser Support Plate	01175092	01175092	1
14	Clapboard Sub-Assy	01235091	017021000067	1
15	Condenser Assy	011002000486	011002000285	1
16	Rear Grill	01475013	01475013	1
17	Wiring Clamp	26115004	26115004	1
18	Temp Sensor	39000072	39000072	1
19	Right Side Plate	0130504401P	0130504401P	1
20	Big Handle	26235001	26235001	1
21	Cut off Valve	0713517901	0713517901	1
22	Valve Support Sub-Assy	0170506101P	0170506101P	1
23	Baffle(Valve Support)	26115007	26115007	1
24	Electronic Expansion Valve	07133909	07133909	1
25	4-Way Valve Assy	030152000260	030152000260	1
26	Compressor and Fittings	00105274	00105274	1
27	Drainage Connecter	06123401	06123401	1
28	Chassis Sub-assy	02803315P	017000000166	1
29	Drainage hole Cap	06813401	06813401	3
30	Axial Flow Fan	10335013	10335013	1
31	Cabinet	01435004P	01435004P	1
32	Valve Cover	22245003	22245003	1

Above data is subject to change without notice.

11. Removal Procedure

11.1 Removal Procedure of Indoor Unit



/ Caution: discharge the refrigerant completely before removal.





Step		Procedure
7.Rem	ove cold plasma generator	
	Screws that are locking the cold plasma generator.Separate the display board from the evaporator assy.	Cold plasma generator Screw
8.Rem	ove temperature sensor and grounding wire	
	Cut off the tieline which binding the temperature sensor and grounding wire on the evaporator, and then pull out the indoor tube temperature sensor from the evaporator. Remove the screws at the connection place between grounding wire and evaporator.	Grounding wire Temperature sensor
9.Rem	ove shield cover of electric box sub-assy	
	Loosen the connection clasps between shield cover of electric box sub-assy and electric box, and then remove the shield cover of electric box sub-assy.	Shield cover of electric box sub-assy
10.Rer	nove wiring terminal	
	Pull out the wiring terminal of motor and wiring terminal of step motor from the mainboard. Note: When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.	Wiring terminal of motor Wiring terminal Wiring terminal of step motor



Step	Procedure	
15.Ren	nove motor and cross flow blade	
a.	Remove the screws fixing motor clamp and then remove the motor clamp.	Motor clamp Screws
b.	Remove the screws at the connection place of cross flow blade and motor; lift the motor and cross flow blade upwards to remove them.	Cross flow Screw Motor
c.	Remove the bearing holder sub-assy.	Holder sub-assy

11.2 Removal Procedure of Outdoor Unit

Steps	Procedure	
1.Remo	ove handle	
	Twist off the screws used for fixing the handle and valve cover, pull the handle and valve cover up ward to remove it.	handle
2.Remo	ove top panel	
	Remove the screws connecting the top panel with the front panel and left&right side plate, and then remove the top panel.	top panel
3.Remo	ove front side panel	
	Loosen the screws connecting the front side panel and chassis. Remove the front side panel.	front side panel









Steps		Procedure
15.Ren	nove left side plate Twist off the screws connecting the left side plate and chassis with screwdriver, and then remove the left side plate.	left side plate
16.Ren	nove chassis and condenser Pull it upwards to separate the chassis and condenser.	condenser chassis

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

• 5m, 7.5m, 8m.

2.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 ref	rigerant charging ar	nount for R22, R4070	C, R410A and R134a			
Diameter of cor	nnection pipe	Outdoor unit throttle				
Liquid pipe(mm)	Gas pipe(mm)	Cooling only(g/m)	Cooling and heating(g/m)			
Ф6	Φ9.5 or Φ12	15	20			
Φ6 or Φ9.5	Φ16 or Φ19	15	50			
Ф12	Φ19 or Φ22.2	30	120			
Ф16	Ф25.4 or Ф31.8	60	120			
Ф19	/	250	250			
Φ22.2	1	350	350			

Appendix 3: Pipe Expanding Method

/ Note:

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

A:Cut the pip

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

B:Remove the burrs

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

C:Put on suitable insulating pipe





Pipe



the union nut on the pipe.

D:Put on the union nut

E:Expand the port

• Expand the port with expander.

A Note:

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

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

F:Inspection

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



Smooth surface Improper expanding The length is equal



Appendix 4: List of Resistance for Temperature Sensor

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

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	138.1	20	18.75	59	3.848	98	1.071
-18	128.6	21	17.93	60	3.711	99	1.039
-17	121.6	22	17.14	61	3.579	100	1.009
-16	115	23	16.39	62	3.454	101	0.98
-15	108.7	24	15.68	63	3.333	102	0.952
-14	102.9	25	15	64	3.217	103	0.925
-13	97.4	26	14.36	65	3.105	104	0.898
-12	92.22	27	13.74	66	2.998	105	0.873
-11	87.35	28	13.16	67	2.896	106	0.848
-10	82.75	29	12.6	68	2.797	107	0.825
-9	78.43	30	12.07	69	2.702	108	0.802
-8	74.35	31	11.57	70	2.611	109	0.779
-7	70.5	32	11.09	71	2.523	110	0.758
-6	66.88	33	10.63	72	2.439	111	0.737
-5	63.46	34	10.2	73	2.358	112	0.717
-4	60.23	35	9.779	74	2.28	113	0.697
-3	57.18	36	9.382	75	2.206	114	0.678
-2	54.31	37	9.003	76	2.133	115	0.66
-1	51.59	38	8.642	77	2.064	116	0.642
0	49.02	39	8.297	78	1.997	117	0.625
1	46.6	40	7.967	79	1.933	118	0.608
2	44.31	41	7.653	80	1.871	119	0.592
3	42.14	42	7.352	81	1.811	120	0.577
4	40.09	43	7.065	82	1.754	121	0.561
5	38.15	44	6.791	83	1.699	122	0.547
6	36.32	45	6.529	84	1.645	123	0.532
7	34.58	46	6.278	85	1.594	124	0.519
8	32.94	47	6.038	86	1.544	125	0.505
9	31.38	48	5.809	87	1.497	126	0.492
10	29.9	49	5.589	88	1.451	127	0.48
11	28.51	50	5.379	89	1.408	128	0.467
12	27.18	51	5.197	90	1.363	129	0.456
13	25.92	52	4.986	91	1.322	130	0.444
14	24.73	53	4.802	92	1.282	131	0.433
15	23.6	54	4.625	93	1.244	132	0.422
16	22.53	55	4.456	94	1.207	133	0.412
17	21.51	56	4.294	95	1.171	134	0.401
18	20.54	57	4.139	96	1.136	135	0.391
19	19.63	58	3.99	97	1.103	136	0.382

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

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-19	181.4	20	25.01	59	5.13	98	1.427
-18	171.4	21	23.9	60	4.948	99	1.386
-17	162.1	22	22.85	61	4.773	100	1.346
-16	153.3	23	21.85	62	4.605	101	1.307
-15	145	24	20.9	63	4.443	102	1.269
-14	137.2	25	20	64	4.289	 103	1.233
-13	129.9	26	19.14	65	4.14	104	1.198
-12	123	27	18.13	66	3.998	105	1.164
-11	116.5	28	17.55	67	3.861	106	1.131
-10	110.3	29	16.8	68	3.729	107	1.099
-9	104.6	30	16.1	69	3.603	108	1.069
-8	99.13	31	15.43	70	3.481	109	1.039
-7	94	32	14.79	71	3.364	110	1.01
-6	89.17	33	14.18	72	3.252	111	0.983
-5	84.61	34	13.59	73	3.144	112	0.956
-4	80.31	35	13.04	74	3.04	113	0.93
-3	76.24	36	12.51	75	2.94	114	0.904
-2	72.41	37	12	76	2.844	115	0.88
-1	68.79	38	11.52	77	2.752	116	0.856
0	65.37	39	11.06	78	2.663	117	0.833
1	62.13	40	10.62	79	2.577	118	0.811
2	59.08	41	10.2	80	2.495	119	0.77
3	56.19	42	9.803	81	2.415	120	0.769
4	53.46	43	9.42	82	2.339	121	0.746
5	50.87	44	9.054	83	2.265	122	0.729
6	48.42	45	8.705	84	2.194	123	0.71
7	46.11	46	8.37	85	2.125	124	0.692
8	43.92	47	8.051	86	2.059	 125	0.674
9	41.84	48	7.745	87	1.996	126	0.658
10	39.87	49	7.453	88	1.934	127	0.64
11	38.01	50	7.173	89	1.875	128	0.623
12	36.24	51	6.905	90	1.818	129	0.607
13	34.57	52	6.648	91	1.736	130	0.592
14	32.98	53	6.403	92	1.71	131	0.577
15	31.47	54	6.167	93	1.658	132	0.563
16	30.04	55	5.942	94	1.609	133	0.549
17	28.68	56	5.726	95	1.561	134	0.535
18	27.39	57	5.519	96	1.515	135	0.521
19	26.17	58	5.32	97	1.47	136	0.509

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

Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)
-29	853.5	10	98	49	18.34	88	4.75
-28	799.8	11	93.42	50	17.65	89	4.61
-27	750	12	89.07	51	16.99	90	4.47
-26	703.8	13	84.95	52	16.36	91	4.33
-25	660.8	14	81.05	53	15.75	92	4.20
-24	620.8	15	77.35	54	15.17	93	4.08
-23	580.6	16	73.83	55	14.62	94	3.96
-22	548.9	17	70.5	56	14.09	95	3.84
-21	516.6	18	67.34	57	13.58	96	3.73
-20	486.5	19	64.33	58	13.09	97	3.62
-19	458.3	20	61.48	59	12.62	98	3.51
-18	432	21	58.77	60	12.17	99	3.41
-17	407.4	22	56.19	61	11.74	100	3.32
-16	384.5	23	53.74	62	11.32	101	3.22
-15	362.9	24	51.41	63	10.93	102	3.13
-14	342.8	25	49.19	64	10.54	103	3.04
-13	323.9	26	47.08	65	10.18	104	2.96
-12	306.2	27	45.07	66	9.83	105	2.87
-11	289.6	28	43.16	67	9.49	106	2.79
-10	274	29	41.34	68	9.17	107	2.72
-9	259.3	30	39.61	69	8.85	108	2.64
-8	245.6	31	37.96	70	8.56	109	2.57
-7	232.6	32	36.38	71	8.27	110	2.50
-6	220.5	33	34.88	72	7.99	111	2.43
-5	209	34	33.45	73	7.73	112	2.37
-4	198.3	35	32.09	74	7.47	113	2.30
-3	199.1	36	30.79	75	7.22	114	2.24
-2	178.5	37	29.54	76	7.00	115	2.18
-1	169.5	38	28.36	77	6.76	116	2.12
0	161	39	27.23	78	6.54	117	2.07
1	153	40	26.15	79	6.33	118	2.02
2	145.4	41	25.11	80	6.13	119	1.96
3	138.3	42	24.13	81	5.93	120	1.91
4	131.5	43	23.19	82	5.75	121	1.86
5	125.1	44	22.29	83	5.57	122	1.82
6	119.1	45	21.43	84	5.39	123	1.77
7	113.4	46	20.6	85	5.22	124	1.73
8	108	47	19.81	86	5.06	125	1.68
9	102.8	48	19.06	87	4.90	126	1.64

JF00303148



GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070 Tel: (+86-756) 8522218 Fax: (+86-756) 8669426 Email: gree@gree.com.cn Http://www.gree.com

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

Add: Unit 2612,26/F.,Miramar Tower 132 Nathan Road,TST,Kowloon,HK Tel: (852) 31658898 Fax: (852) 31651029

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