

ΡΙΝΝΛCLΕ

Service Manual

Models: SC-18ZPL-HP230/SC-18WPL-HP230 SC-24ZPL-HP230/SC-18WPL-HP230

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Part | : Technical Information

1. Summary

Indoor Unit:

SC - 18WPL-HP230 SC - 24WPL-HP230



Outdoor Unit:

SC - 18ZPL-H2320
SC - 24ZPL-HP230



Remote Controller:

YAG1FBF

2. SPECIFICATIONS

2.1 SPECIFICATION SHEET

Model			SC - 18ZPL - HP230	SC - 24ZPL - HP230
Product Code	Product Code		CB437001500	CB437001700
	Rated Voltage	٧~	208/230	208/230
Power SupplyRated Frequency		Hz	50/60	50/60
	Phases		1	1
Power Supply	/ Mode		Outdoor	Outdoor
Cooling Capa	icity(Min~Max)	Btu/h	18000(4094~21837)	22000(6800~30700)
Heating Capa	acity(Min~Max)	Btu/h	18000(4094~24566)	24000(6800~32000)
Cooling Powe	er Input(Min~Max)	W	1330(350~2500)	1700(450~3700)
Heating Powe	er Input(Min~Max)	W	1500(350~2500)	2000(380~3700)
Cooling Powe	er Current	A	5.7	7.54
Heating Powe	er Current	A	6.2	9.37
Rated Input		W	2500	3700
Rated Curren	t	A	10.8	16.4
Air Flow Volu	me(SH/H/MH/M/ML/L/SL)	CFM	736/677/618/559/500/457/353	824/765/706/647/589/500/383
Dehumidifyin	g Volume	Pint/h	1.8	2.5
EER		(Btu/h)/W	13.53	13.00
COP		(Btu/h)/W	12.00	12.00
SEER			24.5	21.50
SCOP			12	11.30
Application Area		yd ²	27.51-40.7	38.3~59.8
	Model of indoor unit		SC - 18WPL - HP230	SC - 24WPL - HP230
	Indoor Unit Product Code		CB437N01500	CB437N01700
	Fan Type			
	Diameter Length(DXL)	inch	Ф4 1/4Х32 11/16	Ф4 3/16Х35
	Fan Motor Cooling Speed (SH/H/ MH/M/ML/L/SL/Q)	r/min	1400/1300/1200/1100/1000/850/600	1500/1300/1100/1000/900/850/800/6 00
	Fan Motor Heating Speed (SH/H/ MH/M/ML/L/SL/Q)	r/min	1400/1250/1100/1000/1050/900/850	1500/1300/1100/1050/1000/900/850
	Output of Fan Motor	W	60	70
	Fan Motor RLA	A	0.38	0.24
	Fan Motor Capacitor	μF	1	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ1/4	Φ1/4
Indoor Unit		inch	2-1/16	2-1/16
	Coil Length (LXDXW)	inch	33 1/4X1X13 1/2	33 1/4X1X13 1/2
	Swing Motor Model		MP35CP/MP24HF	MP35CJ
	Output of Swing Motor	W	2.5/1.5	2.5
	Fuse	A	3.15	3.15
	Sound Level (SH/H/MH/M/ML/L/ SL)	dB (A)	51/48/45/42/39/36/34	52/48/46/44/42/40/37
	Sound Power Level (SH/H/MH/M/ ML/L/SL)	dB (A)	61/58/55/52/49/46/44	62/58/56/54/52/50/47
	Dimension (WXHXD)	inch	43 11/32X12 56/64X9 51/64	43 11/32X12 56/64X9 51/64
	Dimension of Carton Box (LXWXH)	inch	45 53/64X15 53/64X13 11/32	45 53/64X15 53/64X13 11/32
	Dimension of Package (LXWXH)	inch	45 15/16X15 15/16X13 15/16	45 15/16X15 15/16X13 15/16
	Net Weight	lb	36.4	36.4
	Gross Weight	lb	44.1	44.1

Service Manual



	Model of Outdoor Unit		SC - 18ZPL - HP230	SC - 24ZPL - HP230
	Outdoor Unit Product Code		CB437W01500	CB437W01700
			ZHUHAI GREE DAIKIN DEVICE	
	Compressor Manufacturer/Trademark		CO., LTD	CO., LTD
	Compressor Model		QXAT-D20zF030	QXAT-D20zF030
	Compressor Oil		RB68EP	RB68EP
	Compressor Type		Rotary	Rotary
	Compressor L.R.A.	A	30	30
	Compressor RLA		15.5	15.5
	Compressor Power Input	W	2443	2443
	Overload Protector		1NT11L-6233/HPC115/95/ KSD115°C	1NT11L-6233/HPC115/95 KSD115°C
	Throttling Method		Electronic expansion valve	Electronic expansion valve
	Operation temp	٩	61~86	61~86
	Ambient temp (cooling)	٩	0~129	0~129
	Ambient temp (heating)	٩	-22~75	-22~75
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	inch	Φ1/4	Φ1/4
		inch	2-1/16	3-1/16
	Coil Length (LXDXW)	inch	37 3/16X1 1/2X29 7/16	37 51/64X3 7/16X29 29/64
	Fan Motor Speed	rpm	820	820
Outdoor Unit	Output of Fan Motor	W	90	90
	Fan Motor RLA	A	0.65	0.65
	Fan Motor Capacitor	μF	/	/
	Air Flow Volume of Outdoor Unit	CFM	2354	4000
	Fan Type			
	Fan Diameter	inch	Φ17 1/4	Φ21 21/32
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		l	I
	Moisture Protection		IPX4	IPX4
	Design Pressure(High)	PSIG	550	550
	Design Pressure(Low)	PSIG	240	240
	Sound Level (H/M/L)	dB (A)	59/-/-	59/-/-
	Sound Power Level (H/M/L)	dB (A)	69/-/-	69/-/-
	Dimension (WXHXD)	inch	39 3/8X31 7/64X16 13/16	39 3/8X31 7/64X16 13/16
	Dimension of Carton Box (LXWXH)	inch	42 1/2X19X33	42 1/2X19X33
	Dimension of Package (LXWXH)	inch	42 41/64X19 7/32X33 21/32	42 41/64X19 7/32X33 21/32
	Net Weight	lb	141.1	141.1
	Gross Weight	lb	152.1	152.1
	Refrigerant		R410A	R410A
	Refrigerant Charge	oz	74.1	81.1
	Length	ft	24.6	24.6
	Gas Additional Charge	oz/ft	0.5	0.5
	°		1/4	
Connection	Outer Diameter Liquid Pipe	inch		1/4
Pipe	Outer Diameter Gas Pipe	inch	5/8	5/8
	Max Distance Height	ft	32.8	32.8
	Max Distance Length	ft	82.0	82.0

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



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Technical Information

2.4 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

	cooling F) (DB/WB)	Model	Pressure of gas pipe connecting indoor and outdoor unit	Inlet and outlet pipe temperature of heat exchanger		Fan speed of indoor unit	Fan speed of outdoor unit	Compressor revolution (Hz)
Indoor	Outdoor		PSIG	T1 (°F)	T2 (°F)			(112)
81/66	95/75	18/24K	130.5~159.5	54 to 57	176 to 104	Super High	High	75

Heating:

	heating F) (DB/WB)		Pressure of gas pipe connecting indoor and outdoor unit			Fan speed of Fan speed of indoor unit outdoor unit		revolution
Indoor	Outdoor		P (MPa)	T1 (°F)	T2 (°F)			(Hz)
68/60	17/16	18/24K	365.3~391.3	158 to 104	34 to 41	Super High	High	75

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: 24.6ft.

2.5 Noise Curve



Indoor fan motor rotating speed

3. Outline Dimension Diagram

3.1 Indoor Unit





Unit: inch



3.2 Outdoor Unit







Unit:inch

4. Refrigerant System Diagram



Liquid : 1/4" Gas : 5/8"

5. Electrical Part

5.1 Wiring Diagram

Instruction

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

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

• Indoor Unit



Outdoor Unit

SC - 18ZPL - P230



SC - 24ZPL - HP230



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

5.2 PCB Printed Diagram

Indoor Unit

• Top view



•	Bottom	view
-	Dottom	11011



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
10	the mode with this function)
11	Fuse
12	Live wire interface
13	Interface of health function
13	neutral wire
14	Interface of health function live
	wire
15	Detecting plate(WIFI)
16	Connect earthing wire(only for
	the mode with this function)
17	Wired controller (only for the
	mode with this function)
18	Interface of gate control (only
	for the mode with this function)

Outdoor Unit

18K

• Top view



Bottom view



24K

• Top view



No.	Name
1	Interface of compressor
2	Interface of temperature
2	sensor
3	Terminal of compressor
5	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
10	heating
11	Communication wire with
11	indoor unit
12	Live wire interface of power
12	cord
13	Earthing wire interface of cold
15	plasma
14	Neutral wire interface of
14	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:

• This is a multi-function, general use remote control. If a unit does not have a feature listed on the remote, pressing the button will not make a change in unit operation.

• After pressing the power button, there will be a beep, the indicator will illuminate and be on.

• While powered on, the unit will make a tone when a remote button is pressed, indicating the signal was received by the unit. The "signal" icon on the display of remote controller will blink once.

• When the unit is off, "set temperature" and "clock" icons will be displayed on the remote controller.(If "timer on", "timer off" and "light" functions are set, the corresponding icons will be displayed on the remote control 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.

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.

Θ

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

刹

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

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/ 俞 button (These functions are not available in the United States)

Press this button to achieve the on and of

time to start scavenging function;LCD displays" 介".Press the button for the second time to start healthy and scavenging functions simultaneously;LCD displays" 介" and "个".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" 个".Press this button again to repeat the operation above. **12. I FEEL button**

Press this button once, to turn on the I FEEL

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" $_{\Omega}$ " and "Auto" signal) and Quiet mode (display " $_{\Omega}$ " signal) and Quiet OFF (there is no signal of " $_{\Omega}$ " displayed), after powered on, the Quiet OFF is defaulted. Under the Quiet mode (Display " $_{\Omega}$ " 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

•Sleep 1 is Sleep mode 1, in Cool, Dehumidify modes: sleep status after run for one hour, the main unit setting temperature will increase $1^{\circ}C(1^{\circ}F\sim2^{\circ}F)$, 2 hours, setting temperature increased $2^{\circ}C(3^{\circ}F\sim4^{\circ}F)$, the unit will run at this setting temperature; In Heat mode: sleep status after run for one hour, the setting temperature will decrease $1^{\circ}C(1^{\circ}F\sim2^{\circ}F)$, 2 hours, setting temperature will decrease $2^{\circ}C(3^{\circ}F\sim4^{\circ}F)$, then the unit will run at this setting temperature will decrease $2^{\circ}C(3^{\circ}F\sim4^{\circ}F)$, 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 $1^{\circ}C(1^{\circ}F\sim2^{\circ}F)$, 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 $21 \sim 27^{\circ}C(69^{\circ}F \sim 81^{\circ}F)$, after Sleep function started up, the temperature will decrease $1^{\circ}C(1^{\circ}F \sim 2^{\circ}F)$ in every hour, after $2^{\circ}C(3^{\circ}F \sim 4^{\circ}F)$ decreased, this temperature will be maintained.

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

Technical Information

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

STEALTH

(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

(2) Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "T

(3) At this time, 1hour 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)

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 "T

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 MODE

When AUTO MODE is selected, temperature will not be displayed. The unit will cycle between heat and cool preset settings when indoor temperature requires the unit to operate.

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 i 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 🔋 , if press this button again 2s later, 🔋 status will switch to off status directly; if press this button again within 2s, the change of swing status will also depend on the circulation sequence stated above.

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 $\frac{1}{2000}$, if press this button again 2s later, $\frac{1}{2000}$ 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" (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: press and hold "MODE" and "TURBO" buttons simultaneously for 10 seconds, remote controller will send WIFI reset code and then the WIFI function will be turned on. WiFi function is defaulted ON after energizing the remote controller.

· This function is only available 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, 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.

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.

- 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



STEALTH



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

Operation Instructions Download and install APP

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.

AP mode in factory. Y

AP	APP functions.

device.

Step 1:



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 methods.

<	< a07a020d
	a07a0200
	* cool 30°C **

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".









The

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

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 At

STEALTH

r l

Device		(+)	Add device	<	Manual configuration	< м	fanual configuration
Air conditioner		~		10.000		2222	
a07a020d	÷ 30℃	C	Enter device network WIFI password for quick configuration	SSID:	Tenda_36EA10	\$\$10:	Tenda_36EA10
		~		PWD:	1234567890	PWD:	123456789Q
			😨 a07a020d	Server.	Europe	Server.	Europe
			Please input WIFI password				
			Why does configuration fail?				Real Contiguing.
			Add device		Add device		Add device

2.AP

Step 1: Enter homepage "Device", and then tap + at the top right corner. Select "Add device" and enter the page "Add device". T

APP.

No SIM Card	日 中 99% D 09:24 AM	No SIM Card
=	Device +	< 4
Air conditione	Add device	
a0b40629	Infrared control	Enter device qu
3	Add scene	
	Add preset	😤 K4-Testi
	Preset list	🔒 Please i
	Link	
A		
		Manual Confi

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 enter the correct password and select a server.







NOTE:

. You should reconnect your

APP, connect with the air conditioner hot spot or

. 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

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

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	39 🗚 🛱 🗎 16:07	Saving screenshot.	
	=	< Set	tings
Login		Vibration	
		Message alerts	
Settings		Server	Europe
Backup			
	0	Check for updates	
) нир		About product	
Feedback		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 Tap "Register".

	Log in 14/3 11 14 16:07	Register username
) (Email)	Alsemame	() testijitest.com
Pass	word	A Test
		la
		⊕
	Login	Register
	er username Forgot password	Log in

(3) Enter your email address. W



(4) If password is forgotten, you can reset the password with your email address. Tap "Forgot password" and enter the page "Forgot password". T

password and tap "OK" to log in.

	14년 🖀 🚛 📋 10:00
Forgot p	assword
D Email	
Verification code	
	Get verification code
0	к

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

air condtioner 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.







(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

Take "babyroom"as an example.







Tap (+) or (-) to increase or decrease temperature. Tap $_{\text{Cool}}$ to change working mode. Tap adjustment.

to enter the page of fan speed



Тар

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".



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

Select execution device	
device and add it to scene	Select one device and add it to score
babyroom	babyroom
AC	💭 AC
AC	💭 AC
3	💭 AC
	AC
c	Please select
AC	ON
AC	Cancel

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

141 \$ J 1 1	:57		
Edit scene s	ave	<	
 Back home	_		
 babyroom OFF 			
0.5s + babyroom ON			Sele
+ babyroom un			
			C
		Yes	-

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	÷ 93%	14:36
≡ Devi	ce	+
-		-
a state	Baci	khome
Air conditioner		~
babyroom	∿ 18 ℃	٥
AC	⊛ 23 ℃	O
AC	∿ 16 ℃	
AC	* 27 ℃	٢
AC	⊛ 22 ℃	
AC	⊛ 23 ℃	O

No SIM Card		÷ 93%	14:36
\equiv			
Contraction of the local division of the loc			
· · · ·		Bac	khome
Air conditi	oner		~
bat	yroom	∿ 18 ℃	
		≉ 23 ℃	
Back ho	ime Scene e	ecution complet	ed
1 babyro	iom D	ecution succee	d 🚫
	Ye	8	

Service Manual

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

Single-device preset: This can preset a certain device to be On/Of

On the homepage "Device", take air conditioner "babyroom" as an example. Tap on the page "Preset edit".

-

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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.

< Pres	P40 75 af III 13:54 set edit Sove
18	38
19	: 39
20	40
Name	baby room
Preset device	babyroom
Timer type	On Off
Mon Tue Wed	Thu Fri Sat Sun

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:

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".

© 후 교 법 🗃 144 \$ ⊿ 🗋 1944 ✓ Select execution device
Select one device and add it to scene
babyroom
AC

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

STEALTH

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".

1461 🕏 📷 🚊 14:49		P40	
Add linkage	Save	< Select execution de	
		Select one device and add it to linkage	
rice/Environment Parameter/Top	p to lect	AC	
me parameter/		AC AC	
		babyroom	
xecute command/Tap to select		3	
		AC	
		🔜 AC	
		AC AC	

Enter the page "Select environment parameters".

elect one env	When ba	
°CTemp		
()Mode		
Oowoff		

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 setting time.

mutwards to turn on the



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.

P41 \$ 1 15:03	 여름응응응 70 세립 25월 6:41 PM 		
Select execution device	Add linkage Save		
est mee device and add it to longe	đ		
AC	Device/Param/Tap to select		
AC	Time parameter /		
babyroom	then		
AC	Execute command/Tap to select		
c			
Select executable command			
babyroom ON			
babyroom OFF			
Cancel			

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

p 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. T





4.Menu functions

Menu functions (Share, Set, History, Feedback)

(1) Share: T

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".



Service Manual

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



(2) Backup: Tthe cloud.Backup to cloudEnter the "Menu" on the left and tap "Backup".

s information, including backup to cloud and backup list on

STEALTH



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.



Technical Information

(3) Settings

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

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





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




Android phones

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

N0

-

io SIM Card 🔝 🔇 🔳	ତ 🗢 100% 🛢 16:49			4 Card 🗽 🔳	口 ⑦ 〒 100%	02:15
≡ Devic	e +		<	Cor	nfiguration	
	Add device					
Gree AC	Add scene		E	Enter device ne quicl	twork WiFi passwo configuration	rd for
Gree AC	Add preset					
enterno	Preset list			TP-LINK_FE	13	
AGreeAC	Link			Please inpu	t WiFi password	0
a0b4935b	29℃ ()				Why does configure	tion fail?
a0b45dd8	*16℃ ()					
a0b4941f						
				6	onfiguratio	
a0b49377	*26℃ ()			ĺ	n	
ANA	~			Man	al configuration	
-				Maric	ai comiguration	
	No SIM C	S 🚯 🔳 👘	S 😤 100% 🗎 16:49			
	<	First step)			

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.

IM Card 🖪 🔇 🔳 👘 100%	a 16:49	No SIM Card 📡 🔇 🔳 👘 🐨 100% 🛢 16.50
Second step		C Third step
Please choose the expected AC WiFi netwo	ork	Please choose your home WiFi router
a0b417ac	0	🕤 TP-LINK_FE13
		a0b417ac
		BUFFALO-263862
		TP-LINK_EDEA08
12345678		(i ²
Next		Password
		Server: Asia
		Next
	No SM Care 🛛 🔳 🛛 98% 🛱 10.06	
	\bigcirc	
	WIFI module starts to connect the configured wireless	
	rouber	
	Start operation	



NOTE:

. You should reconnect your

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.

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

No SIM 👻 12:32 PM < Settings Wi-Fi Wi-Fi a ≈ (i) Tenda 36EA10 CHOOSE A NETWOR 12345678 a 🗢 🕕 a0b41737 a 🕈 🚺 a 🔋 🚺 a0b41740 **≑** (i) gree_ly a 🕫 (i) HUAWEI-HXTENV HUAWEI-HXTENV 5G ê 🕈 🚺 sss 5G • • 1

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.

No SIM ≆ Ente	r the pa	12:3:		~a0b	4173	7 -	-		sıм ≆ Settings	12:32 РМ Wi-Fi	
Cancel	Ent	er Pa	issw	ord		J	loin		Wi-Fi		
								~	a0b4173	37	8 🖘
Passwor	d •	••••		•							
			•			•					
123	3 4	5	6	2	8	9	0				
- /	;	()	\$	&	@	"				
e+	۰,	?	2	!	1	1	\otimes				
ARC		spa				Joi					

Step 3: Turn on APP Enter wireless router' when registering the account (server selection in "Setting"). Eg: WiFi name: Tenda_XXX; WiFi password:123456789 Server: Europe

The display on the server will be the same as the selection

)

M + 12:3: Dev		No SM + C 12:33 PM	No SM V 12 33 PM
a0b4941f	Add device Add scene Add preset Preset list Linkage	Enter device network WiFi password for quick configuration abb41737 WiFi password Why does configuration fail?	WiFi name: WiFi password: Server: Europe
		Configuration	Configuration

Notice:

• Finally APP indicates it has started to connect the wireless router.

At this time, the buzzer will give out a sound, which

. 2 mins later, please conduct the

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.
- 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.

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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 SIM Card 🖪 🚱 🔳	양 100% 🗎 16:52	No SIM Card 🖪 🔇 🔳	100% 🛢 16:53
	=	< Settin	gs
Login		Button shake	
		Push message	
Settings		Server	Asia
Backup			Asia Europe
V Share		Check for updates	HongKong
🙂 Help		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 Tap "Register".

avicand 🔄 🗘 🖬 🦁 💎 100% 🛢 Login	654 No sm Card
Phone number/Username	() E-mail
Password	名 Username
	Password
	(2) Confirm password
	Server: Asia
Login	Register

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

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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

the air condtioner mac address.



Step 1: T

Tap "Image" to select the source of image. Select from "Default images " or " Take photo" or "Choose from photos" and save an image.

No SM Card [Device		a 17.02 +	No SM Card 🖪 🔿	Edit device	97% 🖨 17:03 Save	No SIM Card 🖪 🗘 🔳	ଓ ♥ 100% ■ 17:04 /ice Save	No SIM Card		छ 🕶 levice	100% 🗎 17.0 Save
	GreeAC		0	Image			Image		Image			6
	0b45dd8	± 16℃	0	Name		a0b45dd8	Name	babyroom	Name			babyroor
(1) ×			0	Lock device			Lock device		Lock device			
õ.	0649377	\$ 26℃	0	Temperature uni	a .	Celsius,	Temperature unit	Celsius	Temperatur	e unit		Celsius
9				Firmware update	e		Firmware update		Firmware u	pdate		
100 ×										Please	select	
			100				Default im	ages	69	2-		-
	Edit devic	e					Take ph	oto	Che.	1	-	-
	Delete						Picture ga	llery	1	T	6	
	Cancel						Cance	4		Car	scel	

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.

babyroom *16°C	+
babyroom *16°C	
a0b4941f	Φ
a0b49377	O
a0b4935b o	Offline
a0b417ac o	Offline

APP and operate the

Tap"1.7" and then the device will be updated automatically.

device. Step 3: T





(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".

< Preset	edit S	ave
16	13	
17:	14	
18	15	
Name	baby re	oom
Preset electric appliances	babyro	on
Timer type	On	off

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

Take "babyroom" as an example.





Step 2: Advanced settings

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

N 🖓 🔳 🛛 🖯 🗡 1	00% 📾 17:27	No SM Card 🛐 🕻		100% 17.28
babyroom	O	<	babyroom	O
			8	
St Cool		11 Ar		
25		Ery .		
ZJ.c		🚑 Health		
		📧 Light		
	+	🕒 Sleep		
		S Ererg	rsaving	
Upšdown Left&Right	Preset			
	babyroom % cool 2.5.col 11 + +	teabyroom		babysom

(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".

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Select execution device If all to be score Image: Select execution device Image: Select execution device Image: Select execution device execution device Image: Select execution device Image: Select execution device execution device Image: Select execution device Image: Select execution device execution device execution device Image: Select execution device Image: Select execution device execution devic	to Silv	M Card 📡 🔇 🔳 👘 🐨 100% 🛍 17:30
a0b4935b babyroom a0b4941f a0b49377 a0b417ac	(Select execution device
babyroom Image: Constraint of the second secon	elect	one control device and add it to the scene
a0b4941f	ļ	a0b4935b
a0b49377	3	babyroom
a0b417ac	d	a0b4941f
a0b417ac	1	
	÷	a0b49377
Gree Air Purifier	ļ	a0b417ac
	C	Gree Air Purifier

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

No SIM Card 🖪 🔇 🔳 🛛 🗇 🕆 100% 🖹 17:29	No SIM Card 🖪 🚫 🔳 👘 100% 🛍 17:32	No SIM Card 📓 🔇 📕 👘 🤨 🕫 100% 🛢 17:33
Add scene Save	Add scene Save	Add scene Save
back home	back home	Scene
Add a series of command to make up a unique scene Only need to click it for startup afterwards	 babyroom OFF 	babyroom OFF
	0.5s	Select interval time
	 babyroom ON 	0.0
	+	0.5 •
		1.0
		OK Cancel

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.

a SIM Card		÷ 935	14:36
	Dev	ice	+
ir cond	fitioner	Bac	k.home
	babyroom	¥ 18 ℃	O
	AC	≉ 23 ℃	O
	AC .	∿ 16 °C	
	AC	\$ 27 ℃	٢
	NC	⊛ 22 ℃	
	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/Of

On the homepage "Device", take air conditioner "babyroom" as an example. Tap \bigcap_{Preset} at the bottom of the page "babyroom".

io SIM Card 🖪 🗳 🔳	10 🐨 100% 🗎 17:18	No SIM Card 🖪 🔇 🔳 👘 🕫
≡ Dev	ice +	< babyroom
babyroom	*16℃ ()	
a0b4941f		* Cool
a0b49377	≉ 26℃ ()	25.
a0b4935b	Offine	*
a0b417ac	Offine	Θ
DNA	~	

own Left&Right F

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:

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".

No SIM Card 🖸 🔇 📕 🛛 🔯 🗢 100% 🛍 17:30 K Select execution device
Select one control device and add it to the scene
a0b4935b
babyroom
a0b4941f
a0b49377
a0b417ac
Gree Air Purifier

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

commands to realize devices linkage.

Enter the page

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 Card ⊾ 🔳	0 🕈 1	00% 🗎 11:16		No SIM C	ard 📐 🔳	() 후 100% 🗎 11:
	<)	Add linkage	Save		<	Select execu	
	ы					e control device and ad	
	Device/am	bient parameter/Click	to select		100	Gree AC	1 mouge
	() Time param	neter/				Gree AC	
	then				-		
		command / Click to sel	lect				
					n ,	Sree AC	
"Select environment para	meters'	•	⊙ ¢ ⊑	7.M			
				elect environment p			
				When babyroom			
				tvironment parameter			
			°CTemp				
			()Mode				
			Onvor	Y			

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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".

1 H L 🛠 "d 🗎 14:50	181 \$ MI
Select temperature par	Select environment pa \$
30	When babyroomModeEqualCool.TemperatureUpp isn't 6 ~C
	Select one environment parameter
16.	°CTemp/16 °C
I ∪ •c	**Mode/Cool
17	()On/Off
Limit setting Upper limit Lower limit	OFF
Ipper limit: Execute command when temperature rises to	ON
the set upper limit. Lower limit: Execute command when temperature drops to the set lower limit.	Cancel

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

🛽 🖉 🖉 🖉 🖉 🖉	6-41 DM		
Add linkage	Save	<	Set tim
		Set time	
aram/Tap to select			
parameter /			
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".

	ામ્લા	141 7 .4 1 15:03		
<	Set time	Save		
Set time				
Execution time		00:00-23:59		
Repeat				
Mon Tue	Wed Thu Fri	Sat Sun		

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

42



1	Add linkage	Save
🕐 Dev	rice/Param/Tap to select	
() Tim	ne parameter /	
then		
⊕ Exe	ecute command/Tap to selec	t

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

14J 🕱 📶 🏦 15:03	 ■ ○ ■ 	888 7 8 .	6:41 Pt
Select execution device	<	Add linkage	Save
or and add it to linkage	if		
	(Devic	ce/Param/Tap to select.	
		parameter/	
m	then		
	⊕ Exec	cute command/Tap to select	
ect executable command			
babyroom ON			
room OFF			
Cancel			

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

List of linked device + When babypromopert/ModeEqualCool.Te When coopdata Coopdata	1941 🕱 🖬 🖩 15:12	140 \$T al 1 15
When babyroomClose.ModeEqualHeat.T 0000-239	List of linked device +	C List of linked device
00:00-23:59	When babyrcomopen,ModeEqualCool,Te	* When babyroomopen,ModeEqualCool,Te
		00:00-23:59

4.Menu functions

Menu functions (Share, Set, History, Feedback)

(1) Share: T

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: T

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.

M Card 🗽 🔳 👘	g 🗢 97% 월 10:10	No SIM C	wd 🛐 🖩 🖯 🗇 95% 🛱
Backup list on the		<	Backup
one backup to be recovered t	to local	(a	ackup to cloud
2016/4/21 2:08:53	557.39K		actug list on the cloud hata compressing please wait % 68/100

s information, including backup to cloud and backup list on

(3) Settings

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

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,

pressor 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

 $(\ensuremath{\underline{1}})$ 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 $0 \le T_{\text{preset}} - T_{\text{amb.}} < 2^{\circ}C(3.6^{\circ}F)$, 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 $T_{amb.} < T_{preset} - 2^{\circ}C(3.6^{\circ}F)$, 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 $T_{amb.} \leq T_{preset} + 2^{\circ}C(3.6^{\circ}F)$, 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.

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

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 $> 5^{\circ}C(41^{\circ}F)$, T outdoor tube $\leq -2^{\circ}C(28.4^{\circ}F)$;

(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 \leq (T outdoor ambient-3°C(5.4°F))

(5)T outdoor ambient $< -10^{\circ}C(14^{\circ}F)$, T outdoor tube-T compensatory \leq (T outdoor ambient-3 $^{\circ}C(5.4^{\circ}F)$)

(after energizing, T

door tube of quitting last defrosting: a. when T outdoor tube $> 2^{\circ}C(35.6^{\circ}F)$, T compensatory= $0^{\circ}C(32^{\circ}F)$; b. when T outdoor tube $\le 2^{\circ}C(35.6^{\circ}F)$, T compensatory= $3^{\circ}C(37.4^{\circ}F)$)

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°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).

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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

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.

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

d.lf 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.lf 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

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.

6 DC 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
Exhaust	short-circuited for successive 30 seconds.
Overload	After the compressor has operated for 3 minutes, the sensor is detected to be open-circuited or
Ovenbad	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

Service Manual

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 $28-29^{\circ}C(82.4\sim84.2^{\circ}F)$, the temperature will rise $1^{\circ}C(1.8^{\circ}F)$ by every hour after sleep function is set; the temperature will not change after rising $1^{\circ}C(1.8^{\circ}F)$; after running for 7 hours, the temperature will decrease $1^{\circ}C(1.8^{\circ}F)$ and it will not change after that.

1.4 When the initial set temperature is $30^{\circ}C(86^{\circ}F)$, the unit will keep on running at this temperature; after running for 7 hours, the temperature will decrease $1^{\circ}C(1.8^{\circ}F)$ 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 $17-20^{\circ}C(62.6\sim68^{\circ}F)$, the temperature will decrease $1^{\circ}C(1.8^{\circ}F)$ by every hour after sleep function is set; the temperature will not change after decreasing $1^{\circ}C(1.8^{\circ}F)$;

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.		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:

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a. When $T_{amb} \leq T_{preset} + 1^{\circ}C(1.8^{\circ}F)$, indoor fan will operate at high speed;

b. When T_{preset} +1°C(1.8°F)<T_{amb.}<T_{preset}+3°C(5.4°F), indoor fan will operate at medium speed;

c. When $T_{amb} \ge T_{preset} + 3^{\circ}C(5.4^{\circ}F)$, 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 $T_{amb} \ge T_{preset} + 2^{\circ}C(3.6^{\circ}F)$, indoor fan will operate at high speed;

b. When $T_{preset} < T_{amb.} < T_{preset} + 2^{\circ}C(3.6^{\circ}F)$, indoor fan will operate at medium speed;

c. When T_{amb.}≤T_{preset}, indoor fan will operate at low speed

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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.

Cooling angle

O(0°)

(9) Up-and-Down Swinging Control

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

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

the machine, then the wind blade will swing between L and D. The air

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).

fectual only on condition that setting the swinging order and the inner

L1 A1

R1

D1

Heating angle

 $O(0^{\circ})$

fan is running.

(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°C (60.8°F)to 30°C(86°F)) and indoor ambient temperature. The set temperature displayed in auto cooling and fan mode is 25°C(77°F) and the set temperature displayed in auto heating mode is 20°C(68°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

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 P2: Maximum cooling and heating test
- P1: Nominal 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

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

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



Electrical Safety Precautions:

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

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

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

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

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

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

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

8. The power cord and power connection wires can't be pressed by hard objects.

9. If power cord or connection wire is broken, it must be

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 1/8 inch.

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

if it is burnt down; don't replace it with a cooper wire or conducting wire.

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

Installation Safety Precautions:

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

2. Handle unit transportation with care; the unit should not be carried by only one person if it is more than 44.09lb.

3. When installing the indoor unit and outdoor unit, a - cient bolt must be installed; make sure the installation

4. Ware safety belt if the height of working is above 78 3/4 inch.

5. Use equipped components or appointed components during installation.

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

Refrigerant Safety Precautions:

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

2. Apply 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.

to minimize the density of refrigerant.

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

electric shock or injury.

Installation and Maintenance

re

Main Tools for Installation and Maintenance

STEALTH

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1. Level meter, measuring tape	2. Screw driver	3. Impact drill, drill head, electric drill
0- 2 9		
4. Electroprobe	5. Universal meter	6. Torque wrench, open-end wrench, inner hexagon spanner (hex wrenches)
7. Electronic leakage detector	8. Vacuum pump	9. Pressure gauges
10. Pipe Wrench, Pliers, pipe cutter	11. Pipe expander, pipe bender	12. Soldering Tools, refrigerant container

8. Installation



Units: inch (mm)



Minimum Outdoor Clearances





Outdoor Unit	Minimum Distances in (mm)
A	20 (500)
В	12 (305)
С	20 (500)
D	80 (2032)
Ε	12 (305)





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 nine	10	Support of outdoor
3	Connection pipe	10	unit
4	Drainage pipe	11	Fixing screw
5	Wall-mounting	12	Drainage plug(cooling
5	frame	12	and heating unit)
6	Connecting	13	Owner's manual,
0	cable(power cord)	13	remote controller
7	Wall pipe		

▲ Note:

1. Please contact the local agent for installation.

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)

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.

2. Indoor Unit:

(1) There should be no obstruction near air inlet and air outlet.(2) Select a location where the condensation water can be

dispersed easily and won't affect other people.

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

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

(5) The location should be able to withstand the weight of indoor unit and won't increase noise and vibration.(6)

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

(8) The appliance shall not be installed in the laundry.

3. Outdoor Unit:

(1) Select a location where the noise and out ow 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)

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

install proper power supply cables before using the air conditioner.

Air-conditioner	Air switch capacity
18/24K	30A

(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.

(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

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

2. Grounding Requirement:

(1)

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

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 circuitshort 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

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

in the holes.

(3) Fix the wall-mounting frame on the wall with tapping screws (ST4.2X25T

pulling the frame. If the plastic expansion particle is loose,

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)



(2) Open a piping hole with the diameter of 2 3/16 or 2 3/4inch on the selected outlet pipe position. In order to drain smoothly, slant the piping hole on the wall slightly downward to the outdoor side with the gradient of 5-10°. (As show in Fig.2)



▲ Note:

(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)



the hole

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(inch)	Tightening torque(ft·lbf)
Φ1/4	11.10~14.75
Φ3/8	20.12~29.50
Φ1/2	33.19~40.56
Φ5/8	44.24~47.94
Ф3/4	51.32~55.31

6. Install Drain Hose

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

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



▲ Note:

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

(2) The plastic expansion particles are not provided. (As show in Fig.10)



7. Connect Wire of Indoor Unit

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



(2) Fix the wire crossing board on connection wire sleeve at the bottom case; let the connection wire sleeve go through the wire crossing hole at the back of indoor unit, and then pull it out from the front.(As show in Fig.12)



(3) Remove the wire clip; connect the power connection wire to the wiring terminal according to the color; tighten the screw

(As show in Fig.13)



(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)

contact the supplier for a new one. Avoid extending the wire by yourself.

(3) For the air conditioner with plug, the plug should be

(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 1/8inch.

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

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

(3) Bind them evenly.

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





▲ Note:

(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)

wall.(As show in Fig.17)



▲ Note:

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

8.6 Installation of Outdoor Unit

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

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

▲ Note:

(1) T

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

(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.





At least 1 1/6 inch above the floor Fig.18

Fig.19

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

(1) Connect the outdoor drain joint into the hole on the chassis.

(2) Connect the drain hose into the drain vent.

(As show in Fig.19)

3. Fix Outdoor Unit

(1) Place the outdoor unit on the support.

(2) Fix the foot holes of outdoor unit with bolts. (As show in Fig.20)



4. Connect Indoor and Outdoor Pipes

(1) Remove the screw on the right Cable-Crossing board 2 or handle and valve cover of outdoor unit and then remove the Cable-Crossing board 2 or 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)
Ф6	15~20
Ф9.52	30~40
Φ12	45~55
Φ16	60~65
Ф19	70~75

5. Connect Outdoor Electric Wire

(1) Let the connection wire sleeve go through the two holes of retaining plate ; tighten the connection joint of sleeve and retaining plate; remove the wire clip; connect the power connection wire and power cord to the wiring terminal according

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

(3) Fix the stopper on handle with screw.(As show in Fig.23)





▲ Note:

(1) After tightening the screw, pull the power cord slightly to

(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 3 15/16 inch.

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



▲ Note:

(1) The through-wall height of drain hose 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

(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

installation.

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

2. Test Operation

(1) Preparation of test operation

- The client approves the air conditioner installation.
- Specify the important notes for air conditioner to the client.
- (2) Method of test operation

• Put through the power, press ON/OFF button on the remote controller to start operation.

• Press MODE button to select AUTO, COOL, DRY, FAN and HEAT to check whether the operation is normal or not.

• If the ambient temperature is lower than 16°C(61°F), the air conditioner can't start cooling.

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8.9 Wired Controller

If the product you bought is equipped with wired controller, please refer to the following introductions of wired controller. **1.Displaying Part**



Fig1.1.1 Outline of wired controller

1.1 LCD Display of Wired Controller





1.2 Instruction to LCD Display

No.	Symbols	Description
1	訓	Swing function
2	Ŷ	Air exchange function (this function is yet unavailable for this unit)
3	C	Sleep function (Only sleep 1)
4	\bigtriangleup	Each kind of running mode of indoor unit (auto mode)
5	*	Cooling mode
6	<u>د (</u>	Dry mode
7	Ś	Fan mode
8	*	Heating mode
9	*::	Defrosting function for the outdoor unit
10	Û	Gate-control function (this function is yet unavailable for this unit)

11		Lock function
12	12 SHIELD	Shield functions (Button operation, temperature setting, On/Off operation, Mode setting are
		disabled by the remote monitoring system.)
13	TURBO	Turbo function state
14	MEMORY	Memory function (The indoor unit resumes the original setting state after power failure and
14		then power recovery)
15		It blinks under on state of the unit without operation of any button
16	SAVE	Energy-saving function
17	888°≈	Ambient/setting temperature value
18	E-HEATER	Electric auxiliary heating function(this function is yet unavailable for this unit)
19	BLOW	Blow function
20	88.8	Timing value
21	QUIET	Quiet function (two types: quiet and auto quiet)(this function is yet unavailable for this unit).

2 Buttons

2.1 Layout of Buttons



2.2 Functions of Buttons

No.	Name	Function	
1	Enter/Cancel	Function selection and cancellation.	
2	A	1 Running temperature setting of the indoor unit, range:16~30°C.	
6	•	② Timer setting, range:0.5-24 hr.	
3	Fan	Setting of the high/middle/low/auto fan speed.	
4	Mode	Setting of the Cooling/Heating/Fan/Dry/Auto mode of the indoor unit.	
6	Function	Switchover among the functions of Turbo/Save/E-heater/Blow etc.	
7	Timer	Timer setting.	
8	On/Off	Turn on/off the indoor unit.	
		Press them for 5s under off state of the unit to enter/cancel the Memory function(If memory	
4+2	▲+Mode	is set, indoor unit after power failure and then power recovery will resume the original	
1.2		setting state. If not, the indoor unit is defaulted to be off after power recovery. Memory off is	
		default before delivery.).	
		By pressing them at the same time under off state of the unit, 💥 will be displayed on the	
3+6	Fan+ ▼	wired controller for the cooling only unit, while 🗱 will be displayed on the wired controller	
		for the cooling and heating unit.	
		Upon startup of the unit without malfunction or under off state of the unit, press them at the	
2+6	▲+▼	same time for 5s to enter the lock state, in which case,any other buttons won't respond the	
		press. Repress them for 5s to quit this state.	

3 Operation Instructions 3.1 On/Off

Press On/Off to turn on the unit and turn it off by another press.

Note: The state shown in Fig.3.1.1 indicates the "Off" state of the unit after power on. The state shown in Fig.3.1.2 indicates the "On" state of the unit after power on.



3.2 Mode Setting

Under ON state of the unit, press the Mode to switch the operation modes as the following sequence: Auto-Cooling-Dry-Fan-Heating.



3.3 Temperature Setting

Press ▲ or ▼ to increase/decrease the preset temperature. If pressing either of them continuously, the temperature will be increased or decreased by 1°C every 0.5s, as shown in Fig.3.3.1.

In the Cooling, Dry, Fan or Heating mode, the temperature setting range is 16~30°C(61~86°F).

In the Auto mode, the setting temperature is unadjustable.



3.4 Fan Setting

Under the "On" state of the unit, press Fan and then fan speed of the indoor unit will change circularly as shown in Fig.3.4.1.



3.5 Timer Setting

Under on-state of the unit, Press Timer button to set timer off of the unit. Under off-state of the unit, press Timer button to set timer on of the unit in the same way.

• Timer on setting:

Under off-state of the unit without timer setting, if Timer button is pressed, LCD will display xx.Hour,with ON blinking. In this case, press ▲ or ▼ button to adjust timer on and then press T

• Timer off setting:

Under on-state of the unit without timer setting, if Timer button is pressed, LCD will display xx. Hour, with OFF blinking. In this case, press ▲ or ▼ button to adjust timer on and then press T

· Cancel timer:

After setting of timer, if Timer button is pressed, LCD won't display xx. Hour so that timer setting is canceled. Timer off setting under the "On" state of the unit is shown as Fig.3.5.1.



Turn on the unit,without Timer activated



Press Timer repeatedly unitll go to the setting status









Press Timer to cancel this setting

Fig.3.5.1 Timer off Setting under the "On" State of the Unit

Timer on setting under the "Off" state of the unit is shown as Fig.3.5.2.



Turn off the unit, without Timer activated



Press Timer repeatedly unitll go to the setting status



Press ▲/▼ to adjust the time





Press Timer to cancel this setting Fig.3.5.2 Timer on Setting under the "Off" State of the Unit

Timer range: 0.5-24hr. Every press of ▲or ▼ will make the set time increased or decreased by 0.5hr. If either of them is pressed continuously, the set time will increase/ decrease by 0.5hr every 0.5s.

3.6 Swing Setting

Swing On: Press Function under on state of the unit to activate the swing function. In this case, 🔊 will blink, After that, press Enter/Cancel

Swing Off: When the Swing function is on, press Function to enter the Swing setting interface, with solution. After that, press Enter/Cancel to cancel this function. Swing setting is shown as Fig.3.6.1.



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Turn off the unit, without Swing function activated



Press Function repeatedly unitll go to the Swing setting status



Press Enter/Cancel to cancel this

setting



Press Enter/Cancel to activated the Swing function



Press Function repeatedly unitll go to the Swing function again

Fig.3.6.1 Swing Setting

Notes:

(1)Sleep, Turbo or Blow setting is the same as the Swing setting.

later.

3.7 Sleep Setting

Sleep on: Press Function under the On state of the unit till the unit enters the Sleep setting state. After that, press Enter/Cancel to

Sleep off: When the Sleep function is activated, press Function to enter the Sleep setting status. After that, press Enter/Cancel to cancel this function.

In the Cooling or Dry mode, the temperature will increase by $1^{\circ}C(1\sim 2^{\circ}F)$ after the unit runs under Sleep1 for 1hr and $1^{\circ}C(1\sim 2^{\circ}F)$ after another 1hr.After that, the unit will run at this temperature.

In the Heating mode, the temperature will decrease by $1^{\circ}C(1\sim 2^{\circ}F)$ after the unit runs under Sleep 1 for 1hr and $1^{\circ}C(1\sim 2^{\circ}F)$ after another 1hr. After that, the unit will run at this temperature.



3.8 Turbo Setting

Turbo function: The unit at the high fan speed can realize quick cooling or heating so that the room temperature can quickly approach the setting value.

In the Cooling or Heating mode, press Function till the unit enters the T

When the Turbo function is activated, press Function to enter the Turbo setting status and then press Enter/Cancel to cancel this function. Turbo function setting is as shown in Fig.3.8.1.



Turn off the unit, without Turbo function activated



Press Function repeatedly unitll go to the Turbo setting status



setting

Enter/Q Ο Ο Ο Ο Ο Time On/Off

Press Enter/Cancel to activated the Turbo function



Press Enter/Cancel to cancel this

Press Function repeatedly unitll go to the Turbo function again

Installation and Maintenance

3.9 E-heater Setting

E-heater (auxiliary electric heating function): In the Heating mode, E-heater is allowed to be turned on for improvement of effciency. Once the wired controller or the remote controller enters the Heating mode, this function will be turned on automatically. Press Function in the Heating mode to enter the E-heater setting interface and then press Enter/Cancel to cancel this function.

Press Function to enter the E-heater setting status, if the E-heater function is not activated, and then press Enter/Cancel to activate it. The setting of this function is shown as Fig.3.9.1 below:



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Turn off the unit,without E-heater function activated



Press Function repeatedly unitll go to the E-heater setting status



Enter/Gancel Fan Mode

Press Enter/Cancel to activated the E-heater function





Fig.3.9.1 E-heater Setting

Press Function repeatedly unitll go to the E-heater setting function again

3.10 Blow Setting

Blow function: After the unit is turned off, the water in evaporator of indoor unit will be automatically evaporated to avoid mildew. In the Cooling or Dry mode, press Function till the unit enters the Blow setting status and then press Enter/Cancel to active this function. When the Blow function is activated, press Function to the Blow setting status and then press Enter/Cancel to cancel this function.

setting

setting

Blow function setting is as shown in Fig.3.10.1



Turn off the unit, without Blow function activated



Press Function repeatedly unitll go to the Blow setting status





Press Enter/Cancel to activated the Blow function



Press Function repeatedly unitll go to the Blow setting function again Installation and Maintenance

Fig.3.9.1 E-heater Setting

Notes:

(1)When the Blow function is activated, if turning off the unit by pressing On/Off or by the remote controller, the indoor fan will run at the low fan speed for 2 min, with "BLOW" displayed on the LCD. While, if the Blow function is deactivated, the indoor fan will be turned off directly.

(2)Blow function is unavailable in the Fan or Heating mode.

3.11 Other Functions

a. Lock

Upon startup of the unit without malfunction or under the "Off" state of the unit, press ▲ and ▼ at the same time for 5s till the wired

controller enters the Lock function. In this case, LCD displays 🦰.

After that, repress these two buttons at the same time for 5s to quit this function.

Under the Lock state, any other button press won't get any response.

b. Memory

Memory switchover: Under the "Off" state of the unit, press Mode and **A** at the same time for 5s to switch memory states between memory on and memory off. When this function is activated, Memory will be displayed. If this function is not set, the unit will be under the "Off" state after power failure and then power recovery.

Memory recovery: If this function has been set for the wired controller, the wired controller after power failure will resume its original running state upon power recovery. Memory contents: On/Off, Mode, set temperature, set fan speed and Lock function.

4. Installation and Dismantlement

4.1 Connection of the Signal Line of the Wired Controller

- Open the cover of the electric control box of the indoor unit.
- Let the single line of the wired controller through the rubber ring.
- Connect the signal line of the wired control to the 4-pin socket of the indoor unit PCB.
- Tighten the signal wire with ties.

• The communication distance between the main board and the wired controller can be up to 20 meters (the standard distance is 8 meters)

4.2 Installation of the Wired Controller



Fig.4.1 Accessories for the Installation of the Wired Controller

No.	1	2	3	4	5
Name	Socket box embedded	Soleplate of the Wired	Screw M4X25	Front Panel of the	Screw ST 2.9X6
	in the wall	Controller		Wired Controller	

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Fig.4.2 shows the installation steps of the wired controller, but there are some issues that need your attention.

f the power supply of the wire buried in the installation hole, that is, no operation is allowed installation.

with electricity during the whole installation.

(2) Pull out the four-core twisted pair line from the installation holes and then let it go through the rectangular hole behind the soleplate of the wired controller.

(4) Insert the four-core twisted pair line into the slot of the wired controller and then buckle the front panel and the soleplate of the wired controller together.

(5) Finally

Please pay special attention to the followings during the connection to avoid the malfunction of the air conditioning unit due to electromagnetic interference.

(1) Separate the signal and communication lines of the wired controller from the power cord and connection lines between the indoor and outdoor unit, with a minimum interval of 20cm, otherwise the communication of the unit will probably work abnormally.

(2) If the air conditioning unit is installed where is vulnerable to electromagnetic interference, then the signal and communication lines of the wired controller must be the shielding twisted pair lines.



5 Errors Display

If there is an error occurring during the operation of the system, the error code will be displayed on the LCD, as show in Fig.5.1. If multi errors occur at the same time, their codes will be displayed circularly.

Note: In event of any error, please turn off the unit and contact the professionally skilled personnel.



Fig.5.1
9. Maintenance

9.1 Error Code List

		Disp	olay Metho	d of Indoo	r Unit	Display N	Vethod of Unit	Outdoor		
NO.	Malfunction Name		Indicator Display (during I-8 blinking, ON 0.5s and OFF de 0.5s)		Indicator display st blinking, (0.5s Yellow	has 3 kind atus and ON 0.5s a	during and OFF	A/C status	Possible Causes	
			Operation Indicator	Indicator	Heating 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.

		Dis	play Metho	d of Indoc	or Unit	Display I	Method of Unit	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 Yellow Red Green			A/C status	Possible Causes
11	Gathering refrigerant	Fo	Indicator	Indicator	Indicator	OFF 1S and blink 17 times	Indicator	Indicator	When the outdoor unit receive signal of Gathering refrigerant ,the system will be forced to run under cooling mode for gathering refrigerant	Nominal cooling mode
12	Indoor ambient temperature sensor is open/short circuited	F1							During cooling and drying operation, indoor unit operates while other loads will stop; during heating operation, the complete unit will stop operation.	 Loosening or bad contact of indoor ambient temp. sensor and mainboard terminal. Components in mainboard fell down leads short circuit. Indoor ambient temp. sensor damaged.(check with sensor resistance value chart) Mainboard damaged.
13	Indoor evaporator temperature sensor is open/short circuited	F2							AC stops operation once reaches the setting temperature. Cooling, drying: internal fan motor stops operation while other loads stop operation; heating: AC stop operation	 Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. Components on the mainboard fall down leads short circuit. Indoor evaporator temp. sensor damaged.(check temp. sensor value chart for testing) Mainboard damaged.
14	Outdoor ambient temperature sensor is open/short circuited	F3					OFF 1S and blink 6 times		During cooling and drying operating, compressor stops while indoor fan operates; During heating operation, the complete unit will stop operation	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
15	Outdoor condenser temperature sensor is open/short circuited	F4					OFF 1S and blink 5 times		During cooling and drying operation, compressor stops while indoor fan will operate; During heating operation, the complete unit will stop operation.	Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor)
16	Outdoor discharge temperature sensor is open/short circuited	F5					OFF 1S and blink 7 times		During cooling and drying operation, compressor will sop after operating for about 3 mins, while indoor fan will operate; During heating operation, the complete unit will stop after operating for about 3 mins.	1.Outdoor temperature sensor hasnt been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor) 2.The head of temperature sensor hasnt been inserted into the copper tube
17	Limit/ decrease frequency due to overload	F6					OFF 1S and blink 3 times		All loads operate normally, while operation frequency for compressor is decreased	Refer to the malfunction analysis (overload, high temperature resistant)
18	Decrease frequency due to overcurrent	F8					OFF 1S and blink once		All loads operate normally, while operation frequency for compressor is decreased	The input supply voltage is too low; System pressure is too high and overload

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	Malfunction		Indicator Display (during			Indicator	Method of Unit has 3 kind tatus and	ds of		
NO.	Name	Duuro	0.5s) Operation Indicator	Cool	Heating	0.5s Yellow	ON 0.5s a Red	Green		Possible Causes
19	Decrease frequency due to high air discharge	F9					OFF 1S and blink twice		All loads operate normally, while operation frequency for compressor is decreased	Overload or temperature is too high; Refrigerant is insufficient; Malfunction of electric expansion valve (EKV)
20	Limit/ decrease frequency due to antifreezing	FH					OFF 1S and blink 4 times		All loads operate normally, while operation frequency for compressor is decreased	Poor air-return in indoor unit or fan speed is too low
21	Voltage for DC bus-bar is too high	PH				OFF 1S and blink 13 times			During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2.If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)
22	Voltage of DC bus-bar is too low	PL				OFF 1S and blink 12 times			During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	 Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 150VAC, turn on the unit after the supply voltage is increased to the normal range. If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), if its normal, theres malfunction for the circuit, please replace the control panel (AP1)
23	Compressor Min frequence in test state	P0								Showing during min. cooling or min. heating test
24	Compresso r rated frequenc e in test state	P1								Showing during nominal cooling or nominal heating test
25	Compressor maximum frequence in test state	P2								Showing during max. cooling or max. heating test

Possible Causes during middle cooling or
during middle cooling or
eating test
he melfunction
he malfunction IPM protection, loss
onism protection and
nt protection of phase
r compressor.
he part three—charging
on analysis of capacitor
outdoor control panel AP1
complete unit is de- I for 20mins, check
he thermal grease on IPM
of outdoor control panel
fficient and whether the
s inserted tightly. If its no
se replace control panel
he malfunction analysis
, high temperature
terminal OVC-COMP
ed. In normal state, the
e for this terminal should
an 1ohm. the malfunction analysis (
protection, overload)

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		Disp	olay Metho	d of Indoo	r Unit	Display I	Display Method of Outdoor Unit			
NO.	Name Dual-8 blinking, ON 0.5s and OFF blinking, ON Name 0.5s 0.5s 0.5s		splay status and during inking, ON 0.5s and OFF		A/C status	Possible Causes				
			-	Indicator	j v		Indicator			
34	System is abnormal	H4				OFF 1S and blink 6 times			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 (overload, high temperature resistant)
35	IPM protection	H5				OFF 1S and blink 4 times			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.
36	Internal motor (fan motor) do not operate	H6							Internal fan motor, external fan motor, compressor and electric heater stop operation,guide louver stops at present location.	 Bad contact of DC motor feedback terminal. Bad contact of DC motor control end. Fan motor is stalling. Motor malfunction. Malfunction of mainboard rev detecting circuit.
37	Desynchro- nizing of compressor	H7							During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor.
38	PFC protection	НС				OFF 1S and blink 14 times			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
39	Outdoor DC fan motor malfunction	L3					OFF 1S and blink 14 times		Outdoor DC fan motor malfunction lead to compressor stop operation,	DC fan motor malfunction or system blocked or the connector loosed
40	power protection	L9				OFF 1S and blink 9 times			compressor stop operation and Outdoor fan motor will stop 30s latter , 3 minutes latter fan motor and compressor will restart	To protect the electrical components when detect high power
41	Indoor unit and outdoor unit doesn't match	LP				OFF 1S and blink 16 times			compressor and Outdoor fan motor can't work	Indoor unit and outdoor unit doesn't match
42	Failure start- up	LC							During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis

		Disp	olay Methoo	d of Indooi	r Unit	Display	Method of Unit	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		Heating Indicator	Yellow Indicator	Red Indicator	Green Indicator		
43	Malfunction of phase current detection circuit for compressor	U1							During cooling and drying operation, compressor will stop while indoor fan will operate; During heating operation, the complete unit will stop	Replace outdoor control panel AP1
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			



		Disp	lay Method	l of Indoor	Unit	Display N	lethod of (Dutdoor Unit		
NO.	Malfunction Name	Dual-8	blinking, ON 0.5s and OFF			Indicator has 3 kinds of display status and during blinking, ON 0.5s and OFF 0.5s			A/C status	Possible Causes
		Display	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

Indoor unit

1. Malfunction of Temperature Sensor F1, F2

- 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?



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2. Malfunction of Blocked Protection of IDU Fan Motor H6



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?

Malfunction diagnosis process:



4. Malfunction of Overcurrent Protection E5

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Main detection points:

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

Malfunction diagnosis process:



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?



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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:



End

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

- 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.



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

- If the compressor wiring is correct?
- If the compressor is damaged?
- If the refrigerant charging amount is too much?



5. Overload and high discharge temperature malfunction

- 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?



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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)

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- 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 Troubleshooting for Normal Malfunction

1. Air Conditioner Can't be Started Up

Possible Causes	Discriminating Method (Air conditioner Status)	Troubleshooting
		wait for power recovery. If not, check power supply circuit and make sure the power plug is connected well.
		Check the circuit according to circuit diagram and connect wires correctly. Make sure all
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	While no display on remote controller or humons	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		
		Adjust the installation position, and install the rainproof and sunproof for outdoor unit
Refrigerant is leaking		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 that	Open the valve completely
Malfunction of horizontal louver		Refer to point 3 of maintenance method for details
Malfunction of the IDU fan motor		Refer to troubleshooting for H6 for maintenance method in details
Malfunction of the ODU fan motor		Refer to point 4 of maintenance method for details
Malfunction of compressor		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		Connect wires according to wiring diagram to make sure all wiring terminals are connected
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
		Connect wires according to wiring diagram to make sure all wiring terminals are connected
Capacity of the ODU fan motor is damaged	the deviation range indicated on the nameplate of fan capacitor.	
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Motor of outdoor unit is damaged		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	I nack the wiring status according to circuit	Connect wires according to wiring diagram to make sure all wiring terminals are connected
	Measure the capacity of fan capacitor with an the deviation range indicated on the nameplate of fan capacitor.	
Power voltage is a little low or high	Use universal meter to measure the power supply voltage. The voltage is a little high or low	Suggest to equip with voltage regulator
Coil of compressor is burnt out	Use universal meter to measure the resistance between compressor terminals and it's 0	Repair or replace compressor
Cylinder of compressor is blocked	Compressor can't operate	Repair or replace compressor

6. Air Conditioner is Leaking

Possible causes	Discriminating method (air conditioner status)	Troubleshooting
Drain pipe is blocked	Water leaking from indoor unit	Eliminate the foreign objects inside the drain
		pipe
Drain pipe is broken	Water leaking from drain pipe	Replace drain pipe
	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 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
-	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	SC - 18WPL - HP230	SC - 24WPL - HP230	Qty		
	Product Code	CB437N01500	CB437N01700			
1	Front Panel(low display)	20000300059T	20000300059T	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	ing 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	3		
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	/	/	1		
17	Rubber Plug (Water Tray)	76712012	76712012	1		
18	Connecting pipe clamp	26112514	26112514	1		
19	Crank	73012005	73012005	1		
20	Stepping Motor	1521210704/1521240210	1521210704/1521240210	1		
21	Motor Press Plate	26112515	26112515	1		
22	Fan Motor	1501213601	1501213601	1		
23	Screw Cover	22242191	22242191	3		
24	Electric Box Assy	100002000486	100002000597	1		
25	Electric Box	2011221102	20112211	1		
26	Lower Shield of Electric Box	01592139	01592139	1		
27	Shield Cover of Electric Box	01592176	01592176	1		
28	Display Board	30565260	30565260	1		
29	Main Board	300002000093	300002000093	1		
30	Terminal Board	42011233	42011233	1		
31	Electric Box Cover	2011220901	2011220901	1		
32	Electric Box Cover2	2011221001	2011221001	1		
33	Shield Cover of Electric Box Cover 2	01202000099	01202000099	1		
34	Connecting Cable	/	1	/		
35	Connecting Cable	/	1	/		
36	Temperature Sensor	3900031302	3900031302	1		
37	Remote Controller	30510138	30510138	1		
38	Jumper	4202021914	4202021930	1		

Above data is subject to change without notice.

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10.2 Outdoor Unit



	Description	Part	Part Code				
No.	Description	SC 18ZPL HP230	SC 24ZPL HP230	Qty			
	Product Code	CB437W01500	CB437W01700				
1	Front Grill	01473050	01473050	1			
2	Fan Motor	15010400000102	15010400000102	1			
3	/	/	/	/			
4	Radiator	49015215	4901521501	1			
5	Main Board	300027000040	300027000224	1			
6	Electric Box Assy	100002000485	100002000598	1			
7	Terminal Board Support sub-assy	01715016	01715016	1			
8	Terminal Board	42010255	42010255	1			
9	Handle	26233053	26233053	1			
10	Left Side Plate	01305043P	01305043P	1			
11	Coping	01255006P	01255006P	1			
12	Motor Support Assy	000046000019	017012000015	1			
13	Condenser Support Plate	01175092	01175092	1			
14	Clapboard Sub-Assy	01235091	01233182	1			
15	Condenser Assy	.ssy 011002000242 011002000340					
16	Rear Grill	01475013	01475013	1			
17	Wiring Clamp	26115004	26115004	1			
18	Temperature Sensor	39000072	39000072	1			
19	Right Side Plate	0130504402P	0130504402P	1			
20	Handle Assy	02113109	02113109	1			
21	Cut off Valve	07130239	07130239	1			
22	Valve Support Sub-Assy	0170506101P	0170506101P	1			
23	Valve Support Block	26113017	26113017	1			
24	Electronic Expansion Valve assy	4300876704	030174000045	1			
25	4-Way Valve Assy	030152000081	030152000081	1			
26	Compressor and Fittings	00105251	4300876704	1			
27	Drainage Connecter	06123401	06123401	1			
28	Chassis Sub-assy	02803315P	01700000166P	1			
29	Drainage hole Cap	06813401	06813401	1			
30	Axial Flow Fan	10335013	10335013	1			
31	Cabinet	0143500401P	0143500401P	1			
32	Valve Cover	22245003	22245003	1			

Above data is subject to change without notice.

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11. Removal Procedure

11.1 Removal Procedure of Indoor Unit



/ Caution: discharge the refrigerant completely before removal.



Step		Procedure
3.Remo	ove display and panel	Screws
a.	Screws that are locking the display board. Separate the display board from the front panel.	Panel
b.	Open the front panel; separate the panel front panel and then removes the front panel.	Panel rotation Groove
4.Remo	ove electric box cover 2	
	Remove the screws on the electric box cover to remove the electric box cover 2.	Electric box cover 2
5.Remo	ove front case sub-assy	
	Loosen the clasps of front case Life the front case sub-assy upwards to remove it.	Screws Clasps
6. Rem	ove vertical louver	
	Loosen the connection clasps between vertical louver and bottom case to remove vertical louver.	Vertical louver

Step		Procedure
7.Remo	ve cold plasma generator Screws that are locking the cold plasma generator.Separate the display board from the evaporator assy.	Cold plasma generator Screw
8.Remo	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.Remo	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.Rem	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 United States and S



Step		Procedure
11.Elec	assy and then remove the electric box assy.	Electric box assy
12.Ren	nove connection pipe clamp At the back of the unit, remove the and then remove the connection pipe clamp.	
13.Ren	Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.	Evaporator assy Screws Screws Connection pipe
14.Ren	nove stepping motor then remove the step motor.	Step motor

Service Manual



11.2 Removal Procedure of Outdoor Unit

Warning: Be sure to wait for a minimum of 20 minutes after turning off all power supplies and discharge the refrigerant completely before removal.









Steps		Procedure
9.Remo	ove motor support	
	Twist off the tapping screws fixingthe motor support, pull it upwardsand then remove the motor support.	motor support
10.Rem	nove isolation sheet	
	Twist off the screws connecting isolation sheet and end plate of condenser and chassis, and then remove the isolation sheet.	isolation sheet
11.Rem	nove 4-way valve	
	Unsolder the pipeline between compressor, condenser, gas and liquid valve, and then remove the 4-way valve. (note: release all refrigerant before unsoldering).	4-way valve



Steps		Procedure
	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	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 (℃)	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	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			

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.

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):

• When the length of connection pipe is above 5m, add refrigerant according to the prolonged length of liquid pipe. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See the following sheet.

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

Additional refrigerant charging amount for R22, R407C, R410A and R134a									
Diameter of con	nection pipe	Outdo	or 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	20						
Φ12	Ф19 or Ф22.2	30	120						
Φ16	Ф25.4 or Ф31.8	60	120						
Ф19	/	250	250						
Φ22.2	/	350	350						

Cooling capacity	Max length of connection pipe	Max height difference		
5000 Btu/h(1465 W)	15 m	5 m		
7000 Btu/h(2051 W)	15 m	5 m		
9000 Btu/h(2637 W)	15 m	10 m		
12000 Btu/h(3516 W)	20 m	10 m		
18000 Btu/h(5274 W)	25 m	10 m		
24000 Btu/h(7032 W)	25 m	10 m		
28000 Btu/h(8204 W)	30 m	10 m		
36000 Btu/h(10548 W)	30 m	20 m		
42000 Btu/h(12306 W)	30 m	20 m		
48000 Btu/h(14064 W)	30 m	20 m		

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

• 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.

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

C:Put on suitable insulating pipe

Pipe Pipe cutter 90° Leaning Uneven Burr





Expander

E:Expand the port

• Expand the port with expander.

D:Put on the union nut

the union nut on the pipe.

▲ Note:

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

Outor diamotor(mm)	A(mm)					
Outer diameter(mm)	Max	Min				
Ф6 - 6.35 (1/4")	1.3	0.7				
Ф9.52 (3/8")	1.6	1.0				
Φ12 - 12.70 (1/2")	1.8	1.0				
Φ16 - 15.88 (5/8")	2.4	2.2				

F:Inspection

Installation and Maintenance

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



Hard _ mold ¥



Appendix 4: List of Resistance for Temperature Sensor

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

Temp(°C)	Resistance(kΩ)	Temp(℃)	Resistance(kΩ)	 Temp(°C)	Resistance(kΩ)	 Temp(℃)	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(℃)	Resistance(kΩ)	Temp(°C)	Resistance(kΩ)	 Temp(℃)	Resistance(kΩ)	Temp(℃)	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(℃)	Resistance(kΩ)	Temp(℃)	Resistance(kΩ)
-29	853.5	10	98		49	18.34	88	4.754
-28	799.8	11	93.42		50	17.65	89	4.609
-27	750	12	89.07		51	16.99	90	4.469
-26	703.8	13	84.95		52	16.36	91	4.334
-25	660.8	14	81.05		53	15.75	92	4.204
-24	620.8	15	77.35		54	15.17	93	4.079
-23	580.6	16	73.83		55	14.62	94	3.958
-22	548.9	17	70.5		56	14.09	95	3.841
-21	516.6	18	67.34		57	13.58	96	3.728
-20	486.5	19	64.33		58	13.09	97	3.619
-19	458.3	20	61.48		59	12.62	98	3.514
-18	432	21	58.77		60	12.17	99	3.413
-17	407.4	22	56.19		61	11.74	100	3.315
-16	384.5	23	53.74		62	11.32	101	3.22
-15	362.9	24	51.41		63	10.93	102	3.129
-14	342.8	25	49.19		64	10.54	103	3.04
-13	323.9	26	47.08		65	10.18	104	2.955
-12	306.2	27	45.07		66	9.827	105	2.872
-11	289.6	28	43.16		67	9.489	106	2.792
-10	274	29	41.34		68	9.165	107	2.715
-9	259.3	30	39.61		69	8.854	108	2.64
-8	245.6	31	37.96		70	8.555	109	2.568
-7	232.6	32	36.38		71	8.268	110	2.498
-6	220.5	33	34.88		72	7.991	111	2.431
-5	209	34	33.45		73	7.726	112	2.365
-4	198.3	35	32.09		74	7.47	113	2.302
-3	199.1	36	30.79		75	7.224	114	2.241
-2	178.5	37	29.54		76	6.998	115	2.182
-1	169.5	38	28.36		77	6.761	116	2.124
0	161	39	27.23		78	6.542	117	2.069
1	153	40	26.15		79	6.331	118	2.015
2	145.4	41	25.11		80	6.129	119	1.963
3	138.3	42	24.13		81	5.933	120	1.912
4	131.5	43	23.19		82	5.746	121	1.863
5	125.1	44	22.29		83	5.565	122	1.816
6	119.1	45	21.43		84	5.39	123	1.77
7	113.4	46	20.6		85	5.222	124	1.725
8	108	47	19.81		86	5.06	125	1.682
9	102.8	48	19.06		87	4.904	126	1.64

Note: The information above is for reference only.