



Service Manual

Models: GWH09ABA-K6DNA1B
GWH09ABA-K6DNC8B
GWH12ABA-K6DNA1B
GWH12ABA-K6DNC8B
(Refrigerant R32)

Table of Contents

| | |
|--|----|
| Part I : Technical Information | 1 |
| 1. Summary | 1 |
| 2. Specifications | 2 |
| 2.1 Specification Sheet..... | 2 |
| 2.2 Operation Characteristic Curve | 4 |
| 2.3 Capacity Variation Ratio According to Temperature | 4 |
| 2.4 Cooling and Heating Data Sheet in Rated Frequency | 5 |
| 2.5 Noise Curve..... | 5 |
| 3. Outline Dimension Diagram | 6 |
| 3.1 Indoor Unit..... | 6 |
| 3.2 Outdoor Unit..... | 6 |
| 4. Refrigerant System Diagram | 7 |
| 5. Electrical Part | 8 |
| 5.1 Wiring Diagram..... | 8 |
| 5.2 PCB Printed Diagram | 11 |
| 6. Function and Control | 13 |
| 6.1 Remote Controller Introduction | 13 |
| 6.2 Operation of Smart Control (Smart Phone, Tablet PC) For Gree | 17 |
| 6.3 Operation of Smart Control (Smart Phone, Tablet PC) | 30 |
| 6.4 Brief Description of Modes and Functions..... | 43 |
| Part II : Installation and Maintenance | 47 |
| 7. Notes for Installation and Maintenance | 47 |
| 8. Installation | 51 |
| 8.1 Installation Dimension Diagram..... | 51 |
| 8.2 Installation Parts-checking | 53 |
| 8.3 Selection of Installation Location..... | 53 |
| 8.4 Requirements for electric connection | 53 |
| 8.5 Installation of Indoor Unit..... | 53 |
| 8.6 Installation of Outdoor unit | 56 |
| 8.7 Vacuum Pumping and Leak Detection | 57 |
| 8.8 Check after Installation and Test operation | 58 |

| | |
|---|----|
| 9. Maintenance | 59 |
| 9.1 Error Code List | 59 |
| 9.2 Troubleshooting for Main Malfunction | 67 |
| 9.3 Troubleshooting for Normal Malfunction | 78 |
| 10. Exploded View and Parts List | 80 |
| 10.1 Indoor Unit | 80 |
| 10.2 Outdoor Unit | 83 |
| 11. Removal Procedure | 85 |
| 11.1 Removal Procedure of Indoor Unit | 85 |
| 11.2 Removal Procedure of Outdoor Unit | 90 |
| Appendix: | 95 |
| Appendix 1: Reference Sheet of Celsius and Fahrenheit | 95 |
| Appendix 2: Configuration of Connection Pipe | 95 |
| Appendix 3: Pipe Expanding Method | 96 |
| Appendix 4: List of resistance for Temperature Sensor | 97 |

2. Specifications

2.1 Specification Sheet

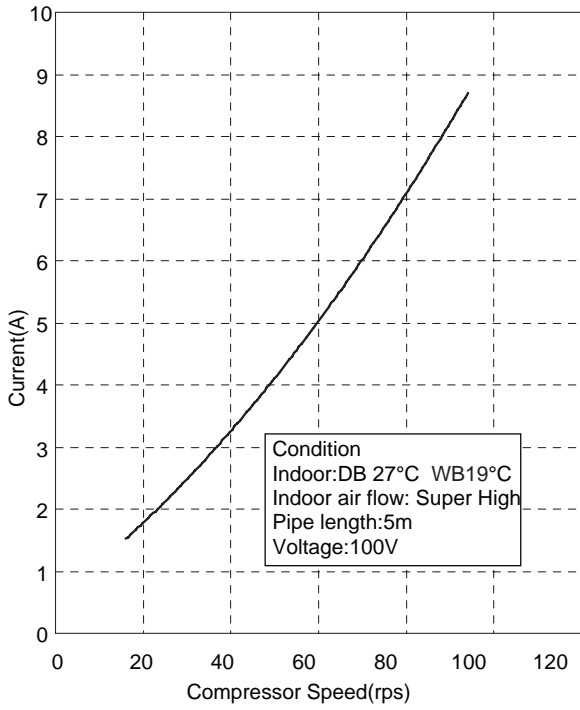
| Parameter | | Unit | Value | |
|------------------------------------|--|-------------------|--|--|
| Model | | | GWH09ABA-K6DNA1B GWH09ABA-K6DNC8B | GWH12ABA-K6DNA1B GWH12ABA-K6DNC8B |
| Product Code | | | CB482000800 CB472000600 | CB482000900 CB472000500 |
| Power Supply | Rated Voltage | V ~ | 100 | 100 |
| | Rated Frequency | Hz | 50/60 | 50/60 |
| | Phases | | 1 | 1 |
| Power Supply Mode | | | Outdoor | Outdoor |
| Cooling Capacity(Min~Max) | | W | 2500(1000~4200) | 3500(1000~4000) |
| Heating Capacity(Min~Max) | | W | 3200(550~5000) | 3800(600~4800) |
| Cooling Power Input(Min~Max) | | W | 463(200~1400) | 722(200~1250) |
| Heating Power Input(Min~Max) | | W | 667(170~1500) | 783(180~1400) |
| Cooling Current Input | | A | 2.65 | 3.5 |
| Heating Current Input | | A | 3.2 | 3.6 |
| Rated Input | | W | 1500 | 1400 |
| Rated Current | | A | 6.0 | 6.0 |
| Rated Heating Current | | A | 6.65 | 6.5 |
| Air Flow Volume(SH/H/MH/M/ML/L/SL) | | m ³ /h | 830/750/700/620/540/450/370 | 950/780/700/620/540/450/300 |
| Dehumidifying Volume | | L/h | 0.8 | 0.8 |
| EER | | W/W | 5.4 | 4.85 |
| COP | | W/W | 4.8 | 4.85 |
| SEER | | W/W | / | / |
| HSPF | | W/W | / | / |
| Application Area | | m ² | 12-18 | 16-24 |
| Indoor Unit | Indoor Unit Model | | GWH09ABA-K6DNA1B/I GWH09ABA-K6DNC8B/I | GWH12ABA-K6DNA1B/I GWH12ABA-K6DNC8B/I |
| | Indoor Unit Product Code | | CB482N00800 CB472N00600 | CB482N00900 CB472N00500 |
| | Fan Type | | Cross-flow | Cross-flow |
| | Fan Diameter Length(DXL) | | mm | Φ107X620 |
| | Cooling Speed(SH/H/MH/M/ML/L/SL) | | r/min | 1200/1050/1000/900/800/700/600/ 500 |
| | Heating Speed(SH/H/MH/M/ML/L/SL) | | r/min | 1200/1050/1000/950/850/800/700/- |
| | Fan Motor Power Output | | W | 15 |
| | Fan Motor RLA | | A | 0.3 |
| | Fan Motor Capacitor | | μF | / |
| | Evaporator Form | | | Aluminum Fin-copper Tube |
| | Evaporator Pipe Diameter | | mm | Φ5 |
| | Evaporator Row-fin Gap | | mm | 2-1.3 |
| | Evaporator Coil Length (LXDXW) | | mm | 633X22.8X343 |
| | Swing Motor Model | | | MP24AN |
| | Swing Motor Power Output | | W | 1.5 |
| | Fuse Current | | A | 3.15 |
| | Sound Pressure Level (SH/H/MH/M/ML/L/SL) | | dB (A) | 43/40/38/34/32/26/19 |
| | Sound Power Level(SH/H/MH/M/ML/L/SL) | | dB (A) | 53/50/48/44/42/36/29 |
| | Dimension (WXHXD) | | mm | 798X295X222 |
| | Dimension of Carton Box (LXWXH) | | mm | 843X354X282 |
| Dimension of Package(LXWXH) | | mm | 848X370X293 | |
| Net Weight | | kg | 10 | |
| Gross Weight | | kg | 11.5 | |

| | | | | |
|---------------------------------|---|-------------------|---|---|
| Outdoor Unit | Outdoor Unit Model | | GWH09ABA-K6DNA1B/O | GWH12ABA-K6DNA1B/O |
| | Outdoor Unit Product Code | | CB482W00800 | CB482W00900 |
| | Compressor Manufacturer | | Shanghai Hitachi Electrical Appliances CO., LTD | Shanghai Hitachi Electrical Appliances CO., LTD |
| | Compressor Model | | GSD102UKQA6JH6G | GSD102UKQA6JH6G |
| | Compressor Oil | | RM-LP56EG / equivalent | A68HES-H |
| | Compressor Type | | Rotary | Rotary |
| | Compressor LRA. | A | 29 | 29 |
| | Compressor RLA | A | 2.63 | 2.67 |
| | Compressor Power Input | W | 695 | 665 |
| | Compressor Overload Protector | | 4CYC00851/KSD301/HPC-115/95-UI | / |
| | Throttling Method | | Electron expansion valve | Capillary Sub-assy |
| | Set Temperature Range | °C | 16~30 | 16~30 |
| | Cooling Operation Ambient Temperature Range | °C | -15~48 | -15~48 |
| | Heating Operation Ambient Temperature Range | °C | -15~24 | -15~24 |
| | Condenser Form | | Aluminum Fin-copper Tube | Aluminum Fin-copper Tube |
| | Condenser Pipe Diameter | mm | Φ7.94 | Φ7.94 |
| | Condenser Rows-fin Gap | mm | 2.5-1.4 | 2.5-1.4 |
| | Condenser Coil Length (LXDXW) | mm | 733X57X550 | 783X57X550 |
| | Fan Motor Speed | rpm | 900 | 900 |
| | Fan Motor Power Output | W | 30 | 30 |
| | Fan Motor RLA | A | 0.15 | 0.15 |
| | Fan Motor Capacitor | μF | / | / |
| | Outdoor Unit Air Flow Volume | m ³ /h | 2400 | 2400 |
| | Fan Type | | Axial-flow | Axial-flow |
| | Fan Diameter | mm | Φ438 | Φ438 |
| | Defrosting Method | | Automatic Defrosting | Automatic Defrosting |
| | Climate Type | | T1 | T1 |
| | Isolation | | I | I |
| | Moisture Protection | | IPX4 | IPX4 |
| | Permissible Excessive Operating Pressure for the Discharge Side | MPa | 4.3 | 4.3 |
| | Permissible Excessive Operating Pressure for the Suction Side | MPa | 2.5 | 2.5 |
| | Sound Pressure Level (H/M/L) | dB (A) | 53/-/- | 52/-/- |
| | Sound Power Level (H/M/L) | dB (A) | 63/-/- | 62/-/- |
| Dimension(WXHXD) | mm | 899X378X596 | 899X378X596 | |
| Dimension of Carton Box (LXWXH) | mm | 945X417X630 | 945X417X630 | |
| Dimension of Package(LXWXH) | mm | 948X420X645 | 948X420X645 | |
| Net Weight | kg | 38 | 38 | |
| Gross Weight | kg | 41 | 41 | |
| Refrigerant | | R32 | R32 | |
| Refrigerant Charge | kg | 1.05 | 1.13 | |
| Connection Pipe | Connection Pipe Length | m | 5 | 5 |
| | Connection Pipe Gas Additional Charge | g/m | 20 | 20 |
| | Outer Diameter Liquid Pipe | mm | Φ6 | Φ6 |
| | Outer Diameter Gas Pipe | mm | Φ9.52 | Φ9.52 |
| | Max Distance Height | m | 10 | 10 |
| | Max Distance Length | m | 15 | 20 |
| | Note: The connection pipe applies metric diameter. | | | |

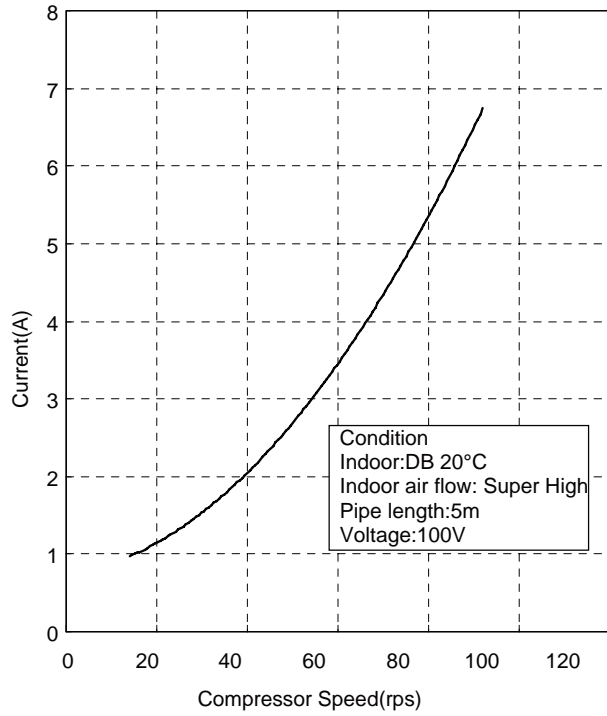
The above data is subject to change without notice. Please refer to the nameplate of the unit.

2.2 Operation Characteristic Curve

Cooling

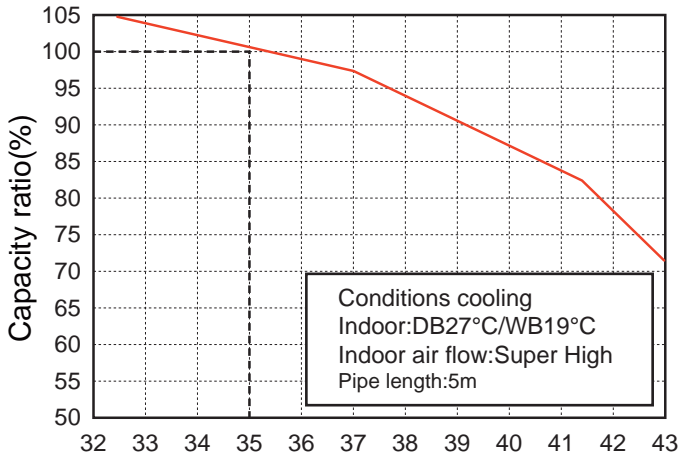


Heating

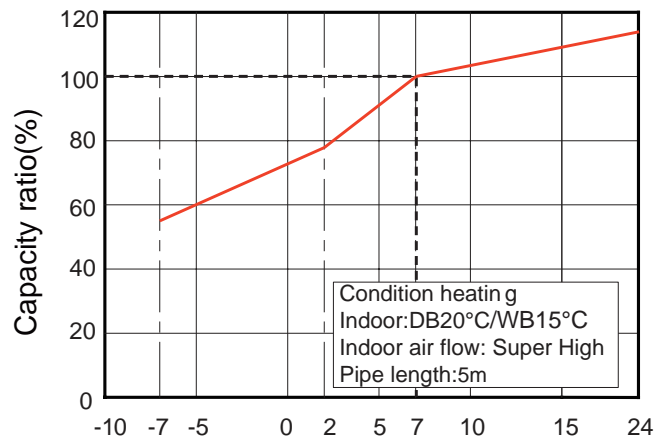


2.3 Capacity Variation Ratio According to Temperature

Cooling



Heating



2.4 Cooling and Heating Data Sheet in Rated Frequency

Cooling:

| Rated cooling condition(°C) (DB/WB) | | Model | Pressure of gas pipe connecting indoor and outdoor unit | Inlet and outlet pipe temperature of heat exchanger | | Fan speed of indoor unit | Fan speed of outdoor unit | Compressor frequency (Hz) |
|--|---------|--------|---|---|----------|-----------------------------|------------------------------|---------------------------------|
| Indoor | Outdoor | | | T1 (°C) | T2 (°C) | | | |
| 27/19 | 35/24 | 09/12K | 0.9 to 1.1 | 12 to 14 | 75 to 37 | Super High | High | 52 |

Heating:

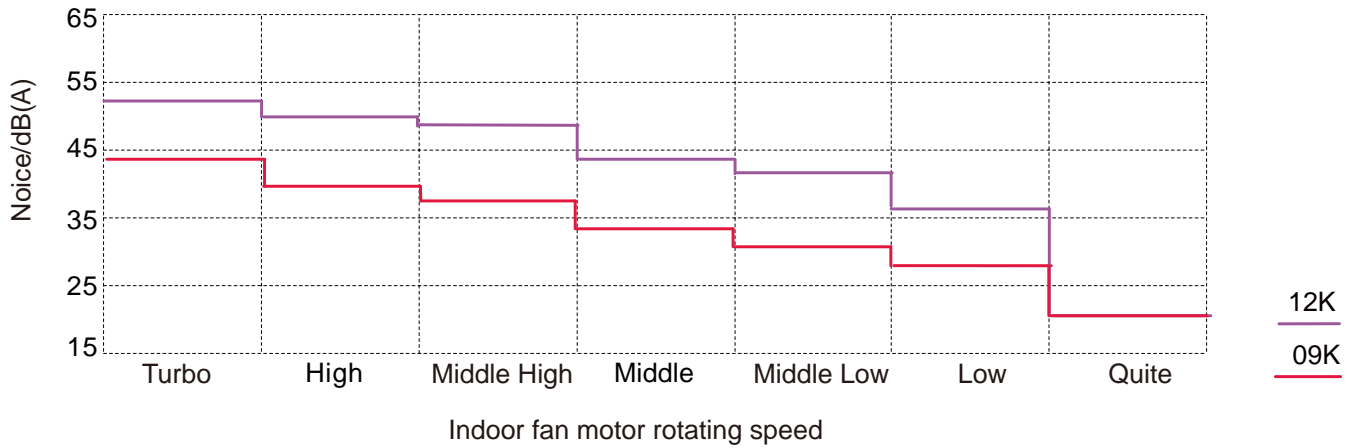
| Rated heating condition(°C) (DB/WB) | | Model | Pressure of gas pipe connecting indoor and outdoor unit | Inlet and outlet pipe temperature of heat exchanger | | Fan speed of indoor unit | Fan speed of outdoor unit | Compressor frequency (Hz) |
|--|---------|--------|---|---|---------|-----------------------------|------------------------------|---------------------------------|
| Indoor | Outdoor | | | T1 (°C) | T2 (°C) | | | |
| 20/- | 7/6 | 09/12K | 2.2 to 2.4 | 70 to 35 | 2 to 4 | Super High | High | 65 |

Instruction:

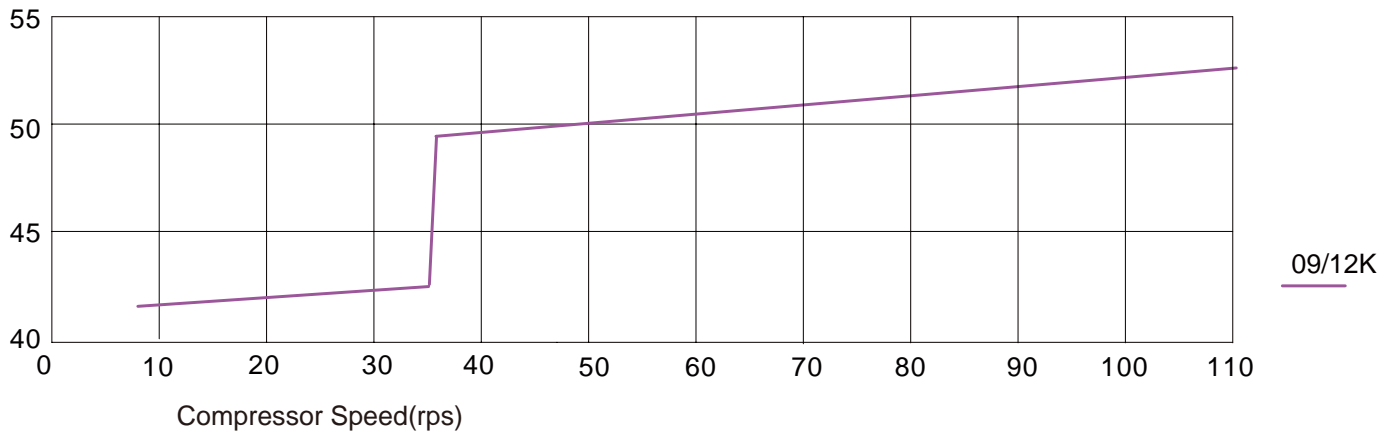
T1: Inlet and outlet pipe temperature of evaporator
 T2: Inlet and outlet pipe temperature of condenser
 P: Pressure at the side of big valve
 Connection pipe length: 5 m.

2.5 Noise Curve

Indoor side noise when blowing

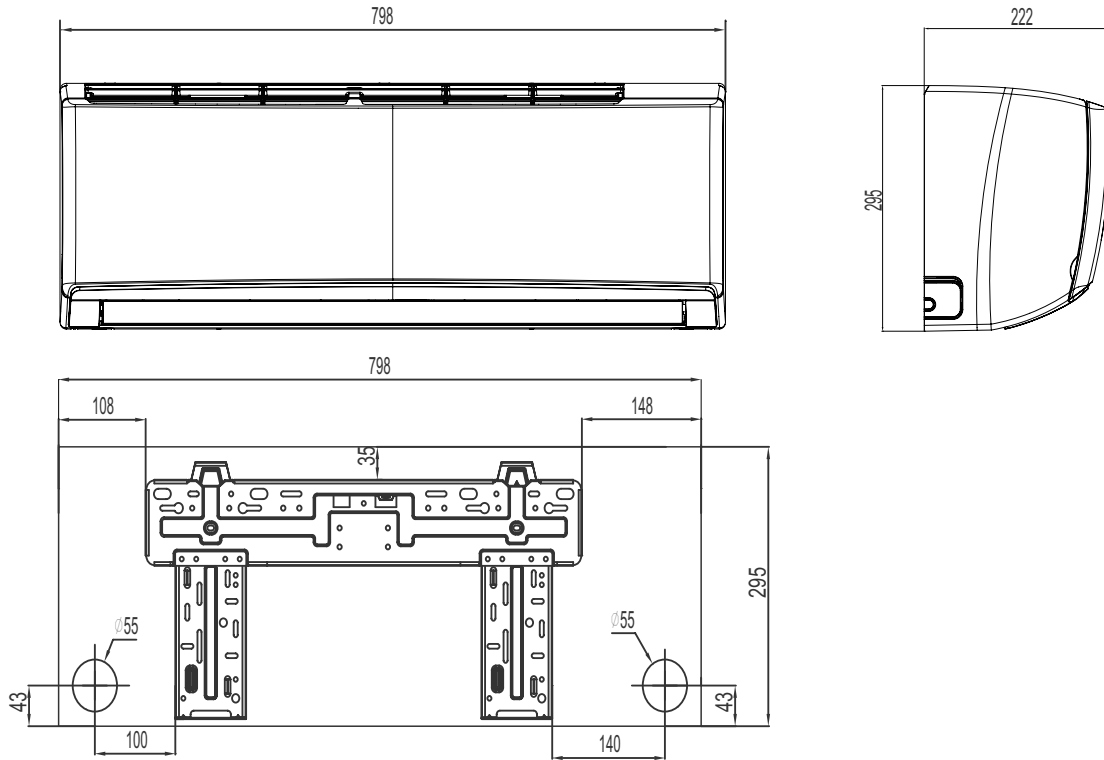


Outdoor side noise when Compressor speed changed



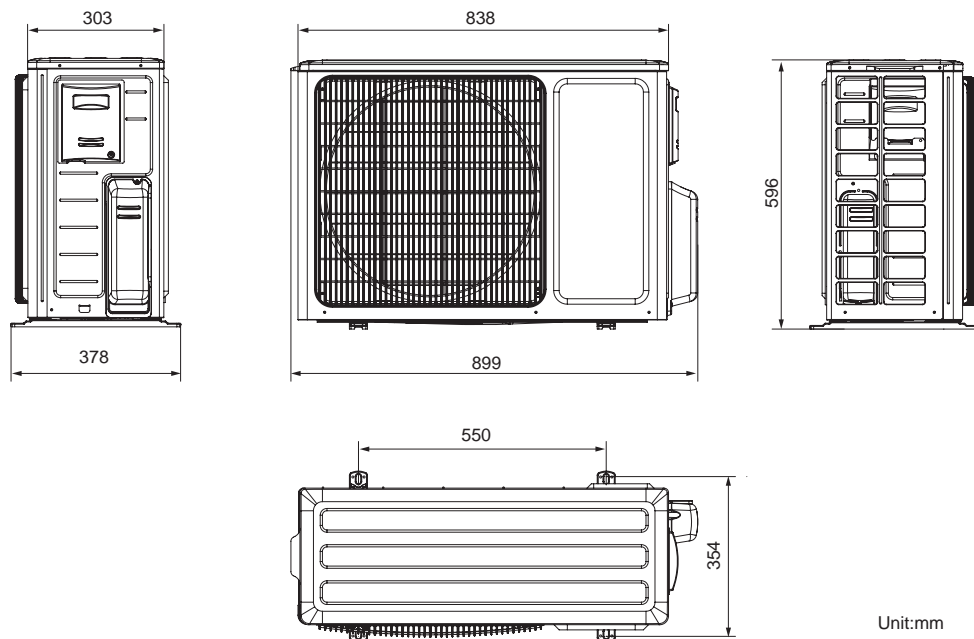
3. Outline Dimension Diagram

3.1 Indoor Unit



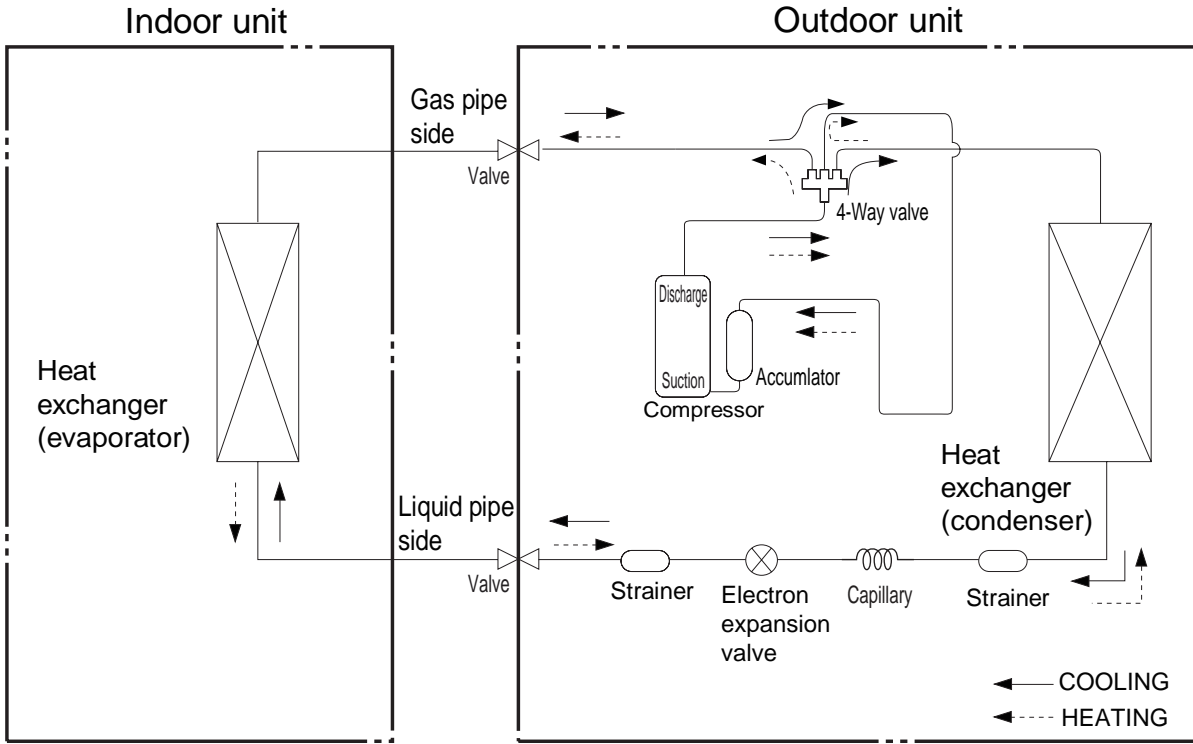
Unit:mm

3.2 Outdoor Unit



Unit:mm

4. Refrigerant System Diagram



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

5. Electrical Part

5.1 Wiring Diagram

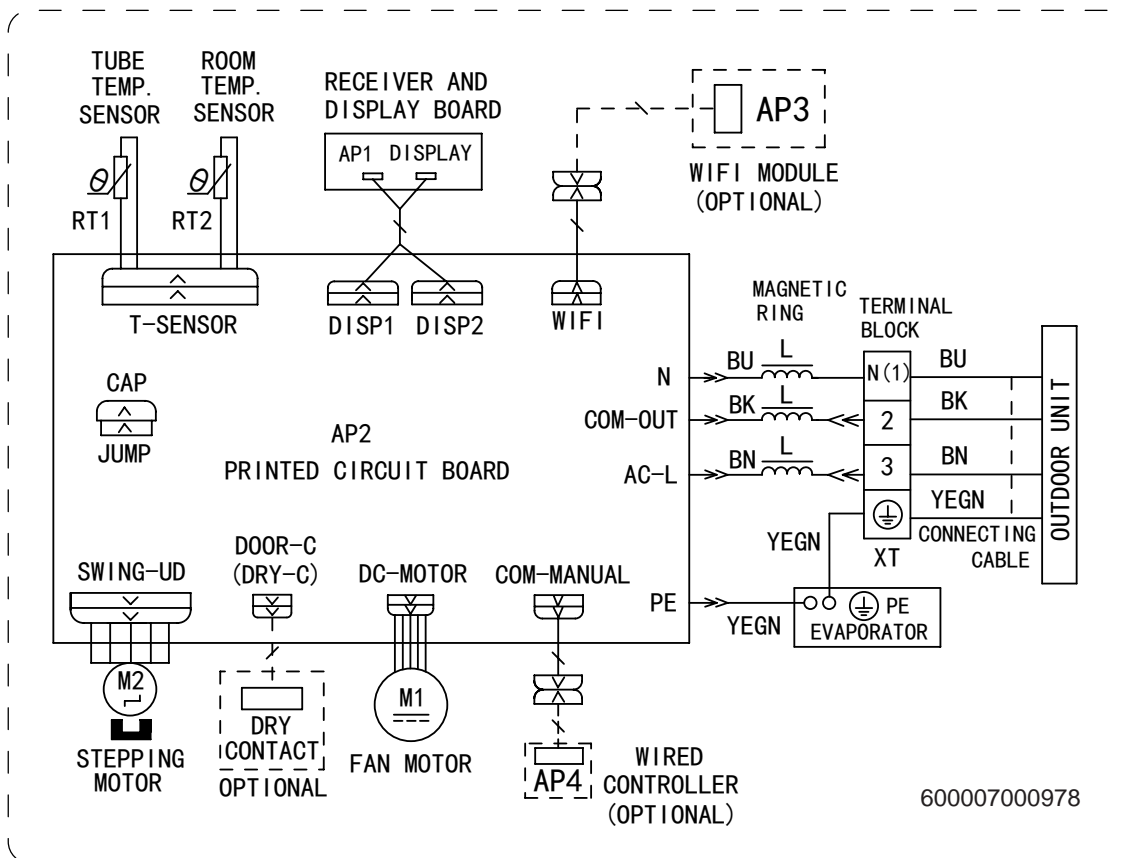
• Instruction

| 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 | / | / |
| VT | Violet | OG | Orange | / | / |

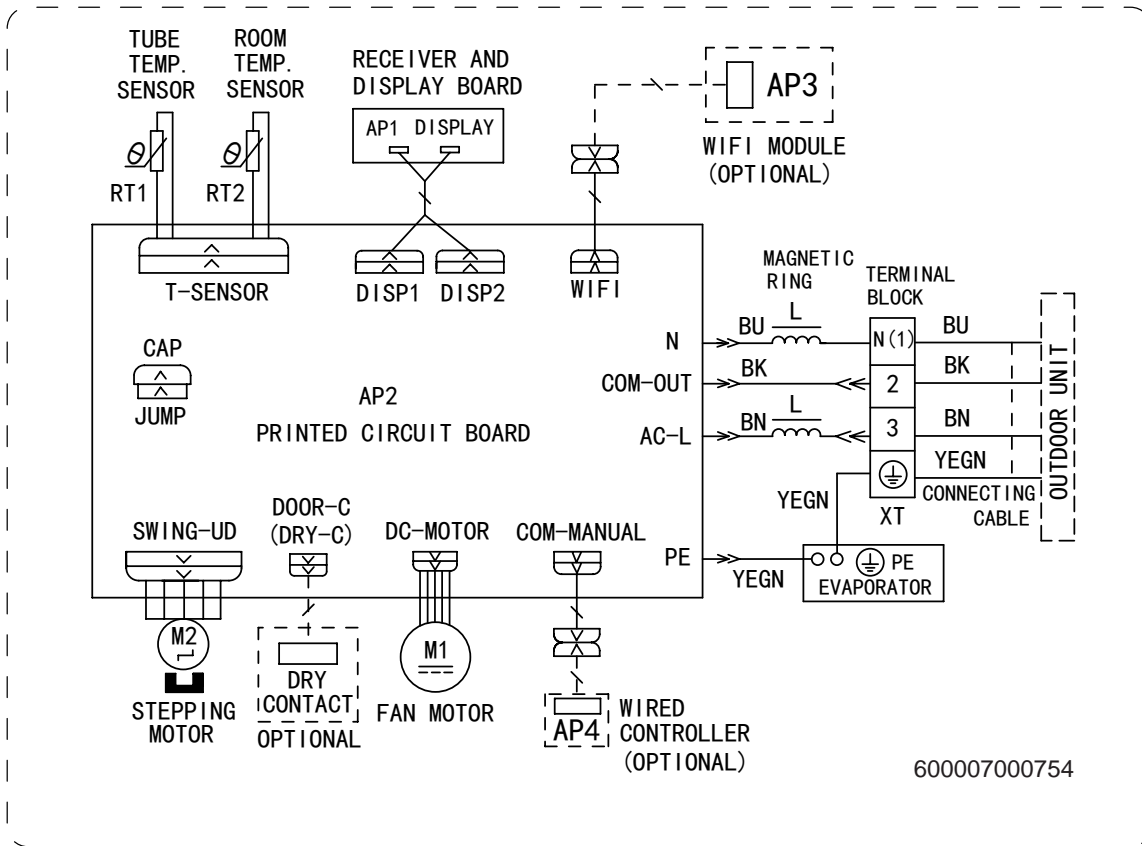
Note: Jumper cap is used to determine fan speed and the swing angle of horizontal lover for this model.

• Indoor Unit

09K

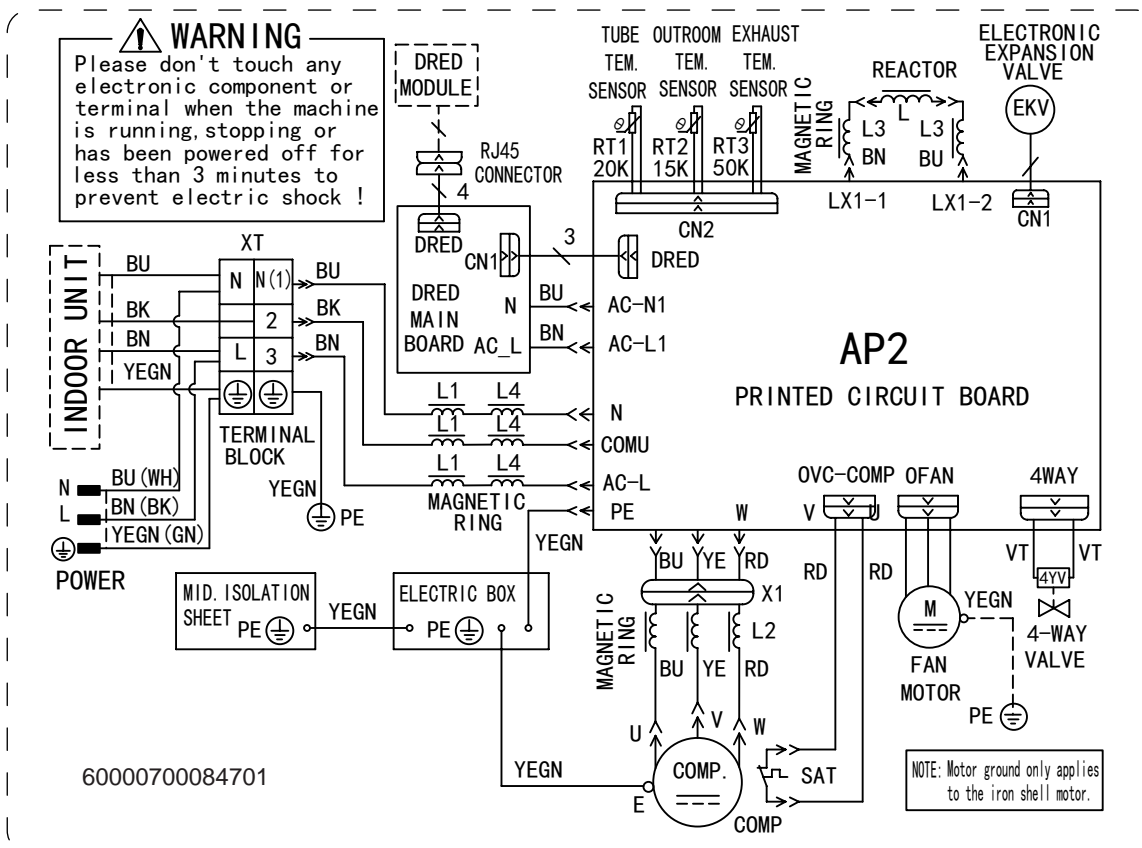


12K

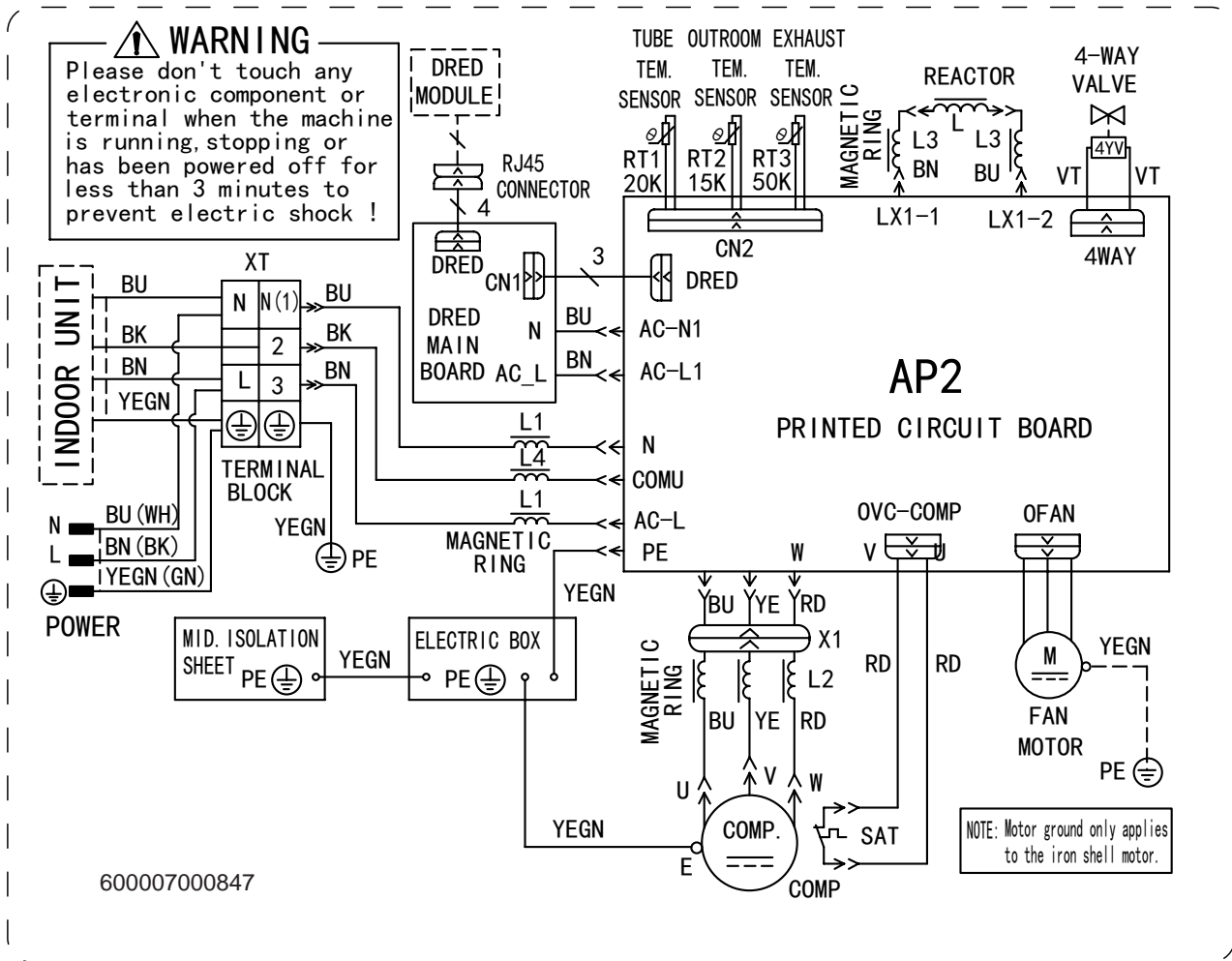


• Outdoor Unit

09K



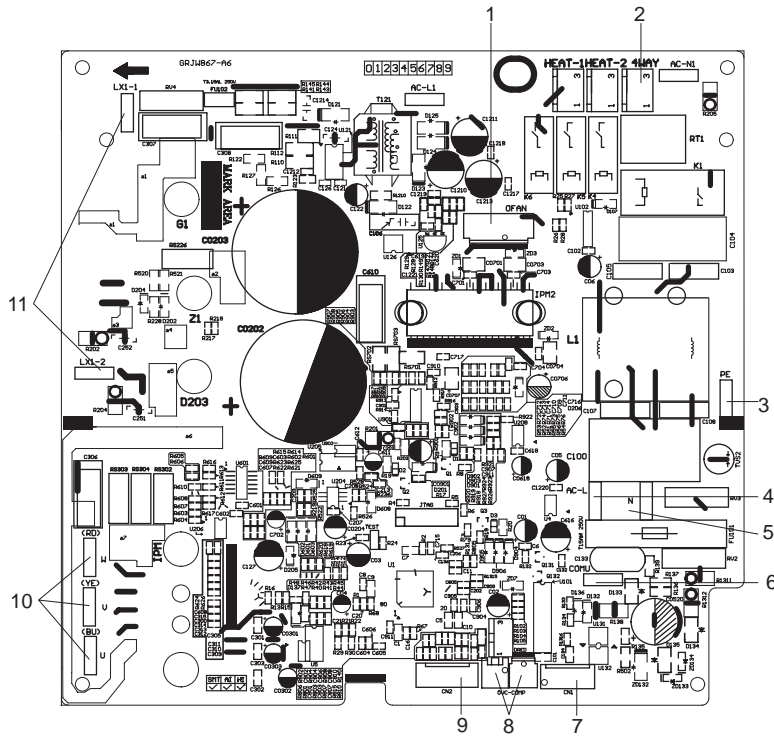
12K



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

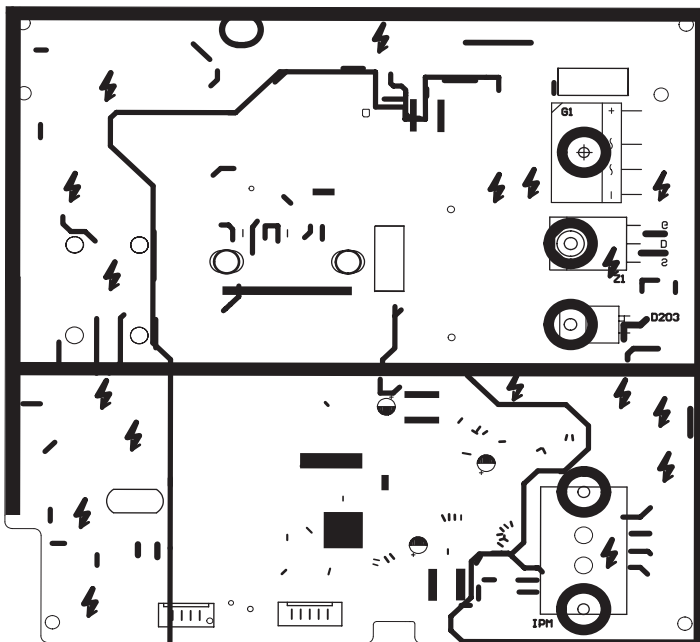
Outdoor Unit

• Top view



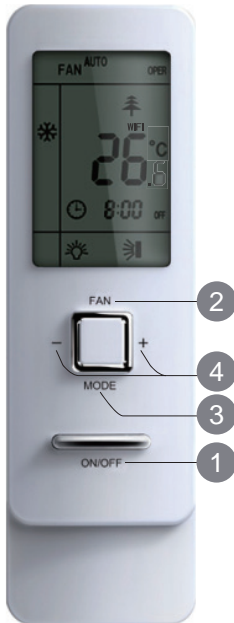
| No. | Name |
|-----|---|
| 1 | Terminal of outdoor fan |
| 2 | Interface of 4-way valve |
| 3 | Grounding wire |
| 4 | Live wire |
| 5 | Neutral wire |
| 6 | Communication interface |
| 7 | Interface of electronic expansion valve |
| 8 | Overload interface of compressor |
| 9 | Interface of temperature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

• Bottom view



6. Function and Control

6.1 Remote Controller Introduction



(before opening cover)

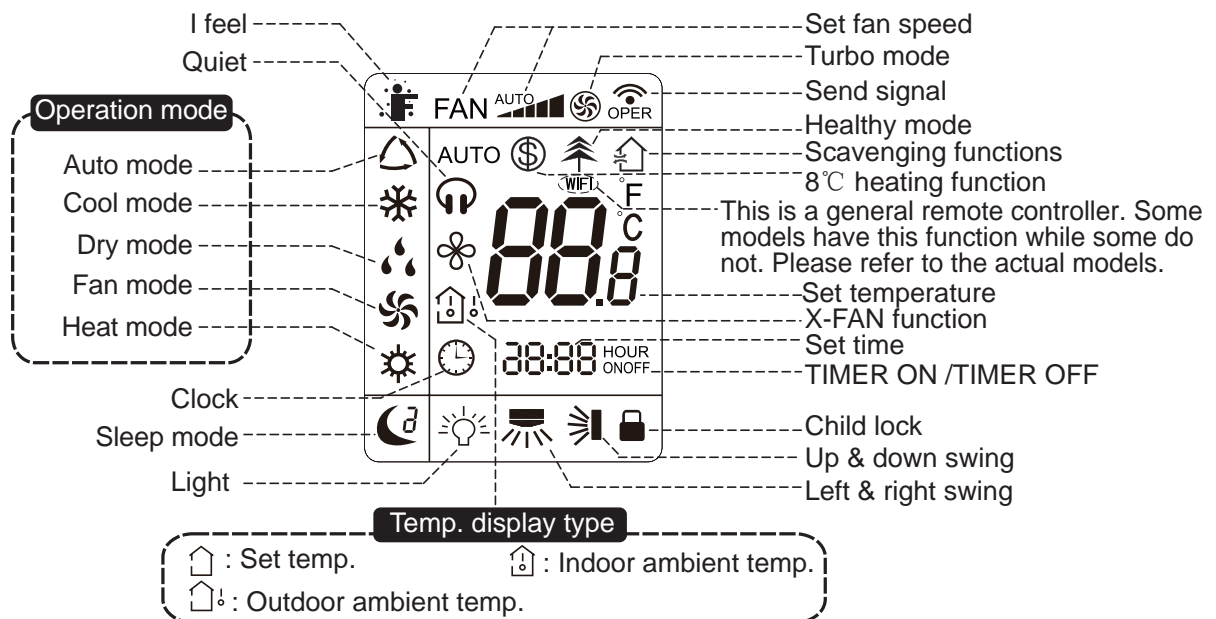
- 1 ON/OFF button
- 2 FAN button
- 3 MODE button
- 4 +/- button



(after opening cover)

- 1 ON/OFF button
- 2 FAN button
- 3 MODE button
- 4 +/- button
- 5 TURBO button
- 6 button
- 7 button
- 8 CLOCK button
- 9 TIMER ON/TIMER OFF button
- 10 TEMP button
- 11 button
- 12 I FEEL button
- 13 LIGHT button
- 14 WiFi button
- 15 QUIET button
- 16 SLEEP button

Introduction for icons on display screen



Introduction for buttons on remote controller

Note:

- This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model don't have, if press the corresponding button on the remote controller that the unit will keep the original running status.
- After putting through the power, the air conditioner will give out a sound. Operation indicator "ON" is ON (red indicator). After that, you can operate the air conditioner by using remote controller.
- Under on status, pressing the button on the remote controller, the signal icon "ON" on the display of remote controller will blink once and the air conditioner will give out a "de" sound, which means the signal has been sent to the air conditioner.
- Under off status, set temperature and clock icon will be displayed on the display of remote controller (If timer on, timer off and light functions are set, the corresponding icons will be displayed on the display of remote controller at the same time); Under on status, the display will show the corresponding set function icons.
- 0.1°C temperature setting is only available for remote controller.

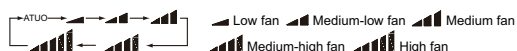
1.ON/OFF button

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.
- X-FAN function: Hold fan speed button for 2s in COOL or DRY mode, the icon "X-FAN" is displayed and the indoor fan will continue operation for a few minutes in order to dry the indoor unit even though you have turned off the unit. After energization, X-FAN OFF is defaulted. X-FAN is not available in AUTO, FAN or HEAT mode. This function indicates that moisture on evaporator of indoor unit will be blown after the unit is stopped to avoid mould.
- Having set X-FAN function on: After turning off the unit by pressing ON/OFF button indoor fan will continue running for a few minutes. at low speed. In this period, Hold fan speed button for 2s to stop indoor fan directly.
- Having set X-FAN function off: After turning off the unit by pressing ON/OFF button, the complete unit will be off directly.

3.MODE button

Press this button, Auto, Cool, Dry, Fan, Heat mode can be selected circularly. Auto mode is default while power on. Under Heat mode, the initial value is 28°C (82°F) Under other modes, the initial value is 25°C (77°F).



(only for cooling and heating unit. As for cooling only unit, it won't have any action when it receives the signal of heating operation.)

4.+/- button

Press "+" or "-" button once increase or decrease set temperature 0.1°C(°F). Holding "+" or "-" button, set temperature on remote controller will change quickly. On releasing button after setting is finished, temperature indicator on indoor unit will change accordingly.

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

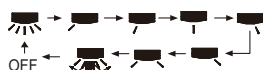
When setting TIMER ON, TIMER OFF or CLOCK, press "+" or "-" button to adjust time. (Refer to CLOCK, TIMER ON, TIMER OFF buttons)

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.swing button

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



6.swing button is only available for some models.

- This function is only available for some models.

7.swing button

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



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




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

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

8.CLOCK button

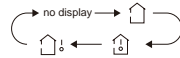
Press this button, the clock can be set up, signal "CLOCK" blink and display. Within 5 seconds, the value can be adjusted by pressing + or - button, if continuously press this button for 2 seconds above, in every 0.5 seconds, the value on ten place of Minute will be increased 1. During blinking, repress the Clock button or Confirm button, signal "CLOCK" will be constantly displayed and it denotes the setting succeeded. After powered on, 12:00 is defaulted to display and signal will be displayed. signal "CLOCK" will be displayed. If there is signal "CLOCK" 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 tens place 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 same as 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 "🏠" with remote controller or no display, temperature indicator on indoor unit displays set temperature; When selecting "🏠+" with remote controller, temperature indicator on indoor unit displays indoor ambient temperature; When selecting "🏠-", with remote controller, temperature indicator on indoor unit displays outdoor ambient temperature. 3s later it will return to the setting temperature or it depends on the other received signal within 3s.

Attention: When displaying the outdoor ambient, the displaying range is 0-60°C. When it goes beyond the range, it keeps the threshold data (the smallest—0°C and the largest 60°C).
Warm tips: When operating buttons on the cover please make sure the cover is closed completely.

Note: Outdoor temperature display is not available for some models. At that time, indoor unit receives "🏠+" signal, while it displays indoor set temperature.

11.🏠/🏠 button

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

NOTE: This function is applicable to partial of models.

12.I FEEL button

Press this button once, to turn on the I FEEL function, then the figure of "I FEEL" will be displayed, after every press of other function button, every 200ms to send I FEEL once, after this function started, the remote controller will send temperature to the main unit 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.WiFi button

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

This function is only available for some models.

15.QUIET button

Press this button, the Quiet status is under the Auto Quiet mode (display "🔇" and "Auto" signal) and Quiet mode (display "🔇" signal) and Quiet OFF (there is no signal of "🔇" displayed), after powered on, the Quiet OFF is defaulted. Under the Quiet mode (Display "🔇" signal).

The Quiet function is only available for some models.

16.SLEEP button

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

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

- Sleep 2 is sleep mode 2, that is air conditioner will run according to the presetting a group of sleep temperature curve.

In Cool mode:

- (1) When setting the initial temperature 16°C-23°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 3°C the temperature will be maintained, after 7hours, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;
- (2) When setting the initial temperature 24°C-27°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 2°C the temperature will be maintained, after 7hours, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;
- (3) When setting the initial temperature 28°C-29°C, after turned on Sleep function, the temperature will be increased 1°C in every hour, after 1°C the temperature will be maintained, after 7hours, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;
- (4) When setting the initial temperature 30°C, under this temperature setting, after 7hours, the temperature will be decreased 1°C, after that the unit will keep on running under this temperature;

In Heat mode:

- (1) Under the initial presetting temperature 16°C, it will run under this setting temperature all along.
- (2) Under the initial presetting temperature 17°C-20°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 1°C decreased, this temperature will be maintained.
- (3) Under the initial presetting temperature 21°C-27°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 2°C decreased, this temperature will be maintained.
- (4) Under the initial presetting temperature 28°C-30°C, after Sleep function started up, the temperature will decrease 1°C in every hour, after 3°C decreased, this temperature will be maintained.

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

- (1) Under Sleep 3 mode, press "Turbo" button for a long time, remote controller enters into user individualization sleep setting status, at this time, the time of remote controller will display "1hour", the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);
- (2) Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Turbo" button for confirmation;
- (3) At this time, 1hour will be automatically increased at the timer position on the remote controller, (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;

Introduction for special function


About AUTO RUN

When AUTO RUN mode is selected, the unit will be in accordance with the room temp. automatically to select the suitable running method and to make ambient comfortable.

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. approaches the preset temp. as soon as possible.

About lock

Press + and - buttons simultaneously to lock or unlock the keyboard. If the remote controller is locked, the icon  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.



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 swing 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.

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 swing 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 , 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.

About switch between Fahrenheit and Centigrade

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

Combination of "TEMP" and "CLOCK" buttons:

About Energy - saving Function

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

Combination of "TEMP" and "CLOCK" buttons:

About 8°C Heating Function

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

About Quiet function

When quiet function is selected:



- Under cooling mode: indoor fan operates at notch 4 speed. 10 minutes later or when indoor ambient temperature 28°C, indoor fan will operate at notch 2 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.
- Under heating mode: indoor fan operates at notch 3 speed or quiet mode according to the comparison between indoor ambient temperature and set temperature.
- Under dry, fan mode: indoor fan operates at quiet mode.
- Under auto mode: the indoor fan operates at the auto quiet mode according to actual cooling, heating or fan mode.

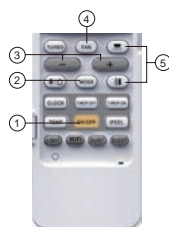
About Sleep function

Under the Fan, Dry and Auto mode, the Sleep function cannot be set up. Select and enter into any kind of Sleep mode, the Quiet function will be attached and started, different Quiet status could be optional and turned off.

Operation guide

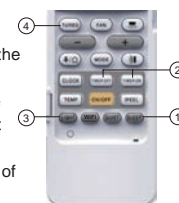
General operation

- 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.)
- Press MODE button, select desired running mode.
- Pressing + or - button, to set the desired temperature.
- Pressing FAN button, set fan speed, can select AUTO FAN, LOW, MEDIUM-LOW, MEDIUM, MEDIUM-HIGH and HIGH.
- Pressing  and  button, to select the swing.



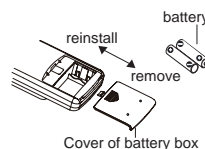
Optional operation

- Press SLEEP button, to set sleep.
- Press TIMER ON and TIMER OFF button, can set the scheduled timer on or timer off.
- 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).
- Press TURBO button, can realize the ON and OFF of TURBO function.



Replacement of batteries in remote controller

- Press the back side of remote controller marked with "B", as shown in the fig, and then push out the cover of battery box along the arrow direction.
- Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.
- Reinstall the cover of battery box.



NOTICE:

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

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

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

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

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

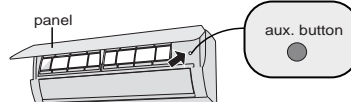
If the display on remote controller is fuzzy or there's no display, please replace batteries.

Emergency operation

If remote controller is lost or damaged, please use auxiliary button to turn on or turn off the air conditioner. The operation in details are as below: As shown in the fig. Open panel, press aux. button to turn on or turn off the air conditioner. When the air conditioner is turned on, it will operate under auto mode.

Use insulated object to press the auto button

WARNING:



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

Operation Instructions

Download and install APP

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



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



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

Configuration

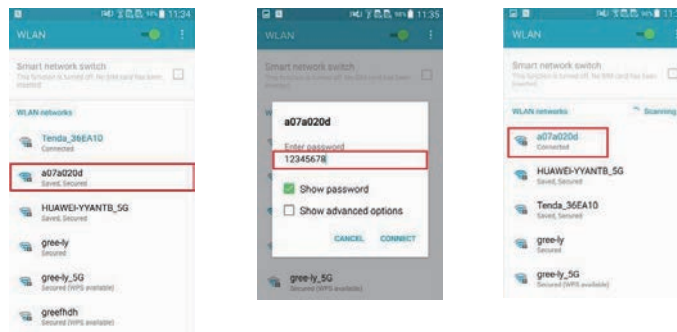
NOTE: Select either the original configuration or AP configuration according to the APP functions.

1.Original configuration

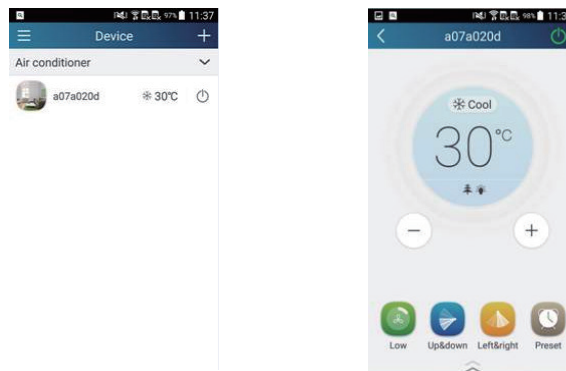
Before operation, please finish the following configuration in order to realize Wifi control and the connection between air conditioner and intelligent device.

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

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




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

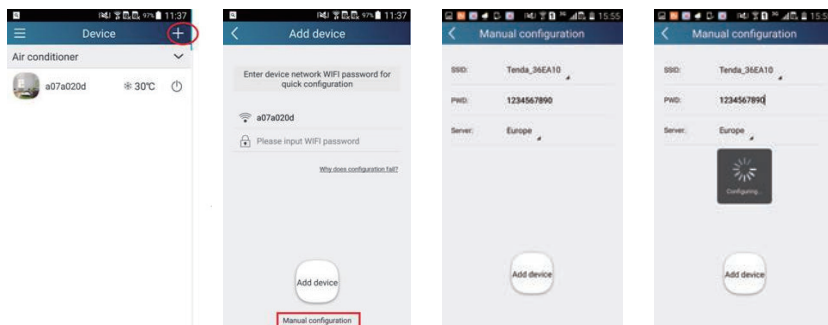


NOTE:One AC can be controlled by 4 smart phones in maximum at the same time.

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

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

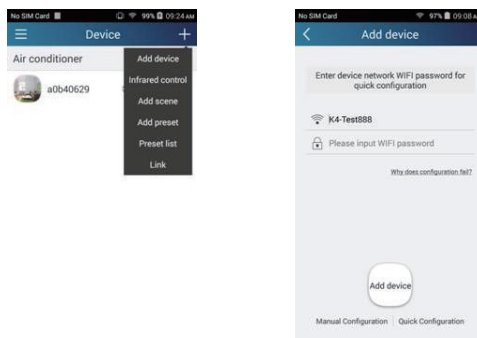
Select "Add device" and enter the page of "Add device". Tap "Manual configuration" and enter the page "Manual configuration".
 Step 2: Select the correct network name and enter the password. Select the server (The server setting here must keep the same as the server setting in "Settings" mentioned below.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



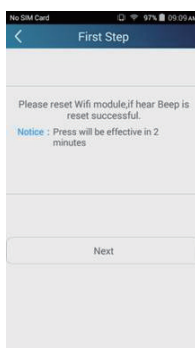
2.AP configuration

4 steps of configuration

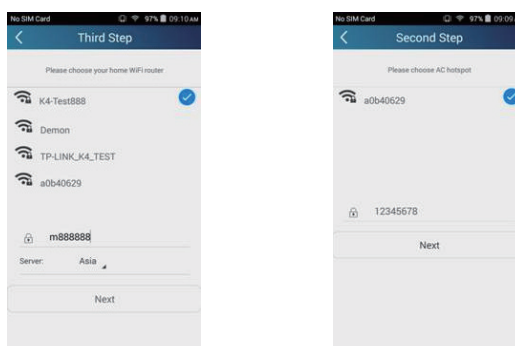
Step 1: Enter homepage "Device", and then tap **+** at the top right corner. Select "Add device" and enter the page "Add device". Tap "Manual Configuration".



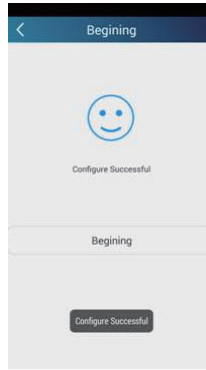
Step 2: Tap "Next" in the First Step.



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.



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



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

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

Functions introduction

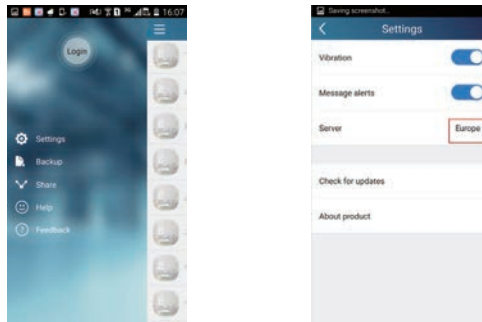
1. User registration

Purpose: To realize long-distance control

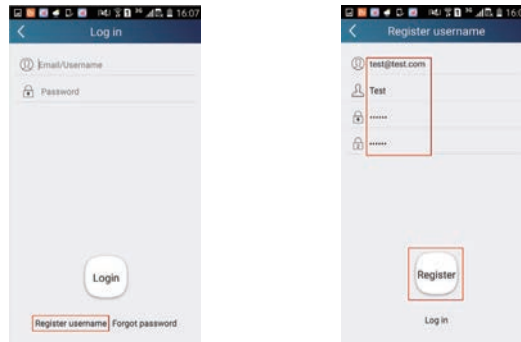
Operation instruction: For the first time login, you have to register a new username. If you already have a username, skip the registration step and enter email address and password on the "Login Page" to log in. If password is forgotten, you can reset the password.

Operation steps:

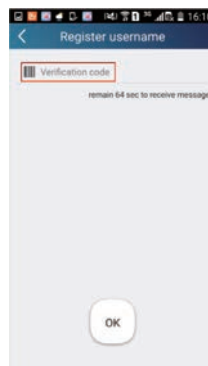
(1) Select the server address



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

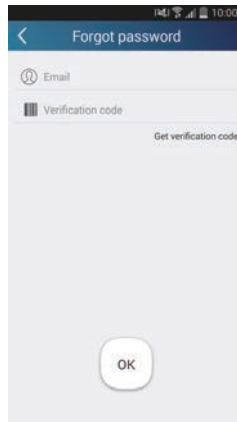


(3) Enter your email address. Wait until you receive the verification code. Enter the code and then tap "OK" to log in.



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

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

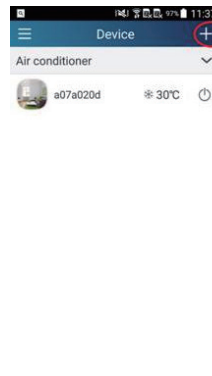


2. Personal settings

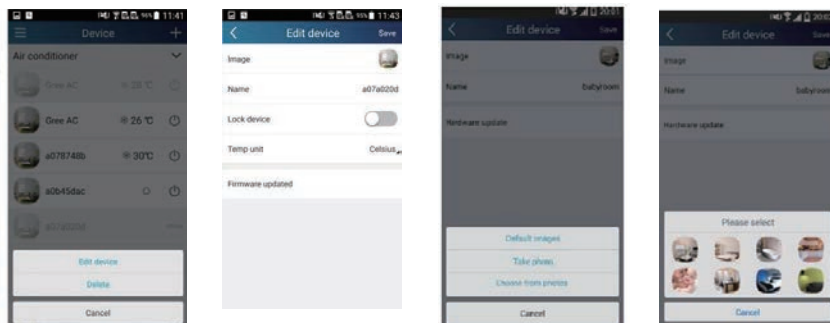
Purpose: Set name (device name, preset name, etc.) and images (device image) in order to identify a user easily.

(1) Set device name

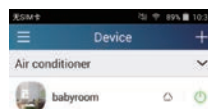
After quick configuration, a list of controllable smart devices will be generated. Default name for air conditioner is the last 8 numbers of the air conditioner mac address.



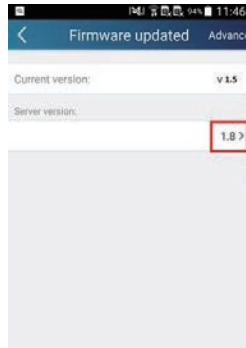
Step 1: Tap and hold "a0b417ac" to enter the page "Edit device". Tap "Image" to select the source of image. Select from "Default images" or "Take photo" or "Choose from photos" and save an image.



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



Step 3: Tap "Firmware update" to upgrade the firmware of the device. Tap "1.8" the device will be upgraded auto.

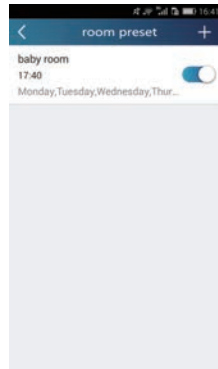


(2) Set preset name

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



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



(3) Set device image

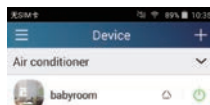
Please refer to step 1 in 2(1)

3.Control functions

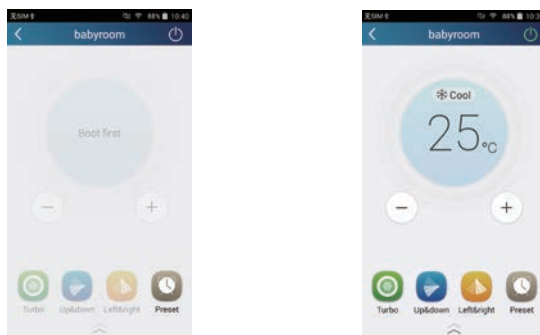
(1) Common control functions: General control on the operation of smart devices (On/Off, temperature, fan speed, mode, etc.) and the setting of advanced functions (air exchange, dry, health, light, sleep, energy saving upper limit).

Step 1: General control

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



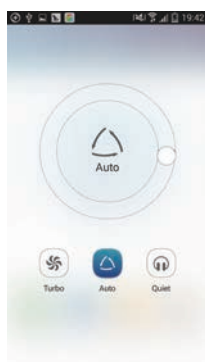
Tap "babyroom" and enter the page of air conditioner control. Tap  to turn on the control switch.



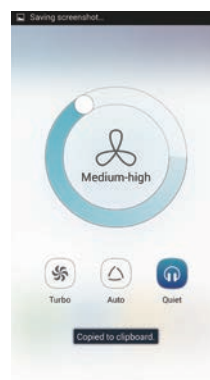
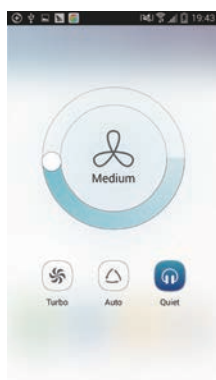
Tap or to increase or decrease temperature. Tap to change working mode. Tap to enter the page of fan speed adjustment.



to enter the page of fan speed

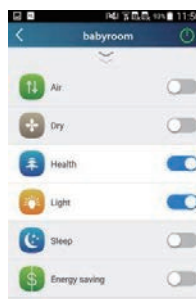
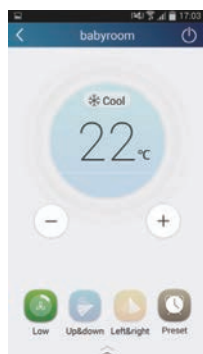


Tap and go around the circle to adjust fan speed.



Step 2: Advanced settings

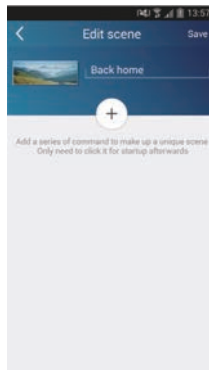
Tap to enter advanced settings. You may select "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving".




(2) Advanced control functions: Set scene; Preset; Link; Infrared control (only APPLICable to smart phones with infrared emitter)

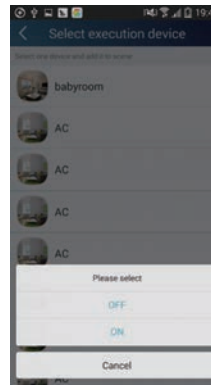
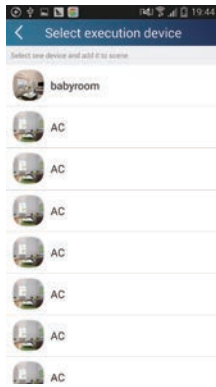
Set scene: Preset the operation of several smart devices by one tap.


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

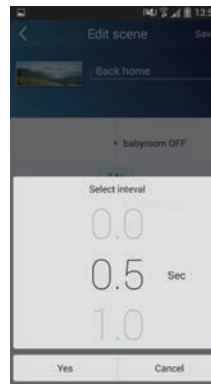
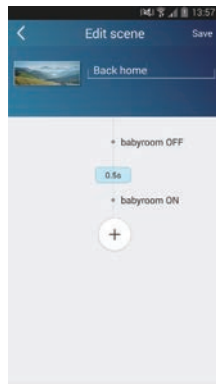


Tap "Add scene" and edit the scene name, for example, "Back home". Add execution devices.

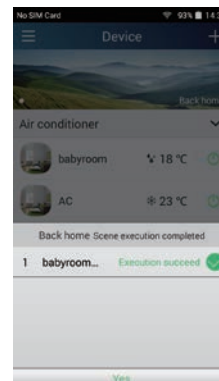
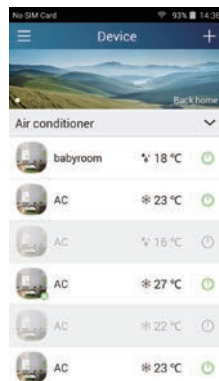
Tap  to add commands. On the page "Select execution device", select the air conditioner named "babyroom". Then select "ON" or "OFF".



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




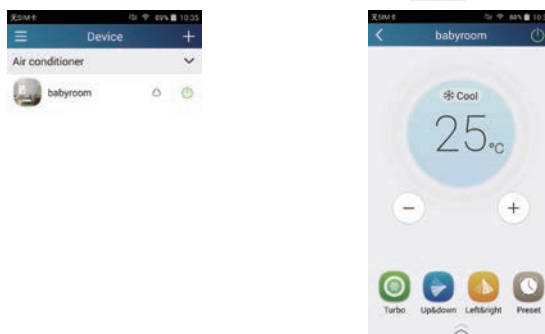
Tap "Save". Tap the scene picture displayed on homepage "Device" to send the command. Then the scene "Back home" will be in execution. You may view the execution condition of the scene.



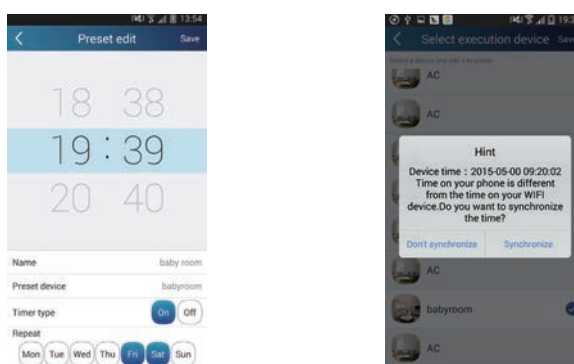
(3) Preset includes single-device preset and multi-device preset

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

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

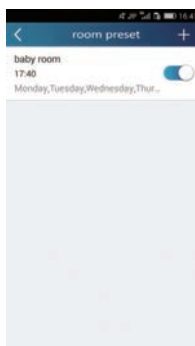


Slide up and down to set the time. If you need to synchronize the time, tap "synchronize". If such "Hint" interface doesn't show up, please skip this operation procedure.



Tap "Name" to customize the preset name.

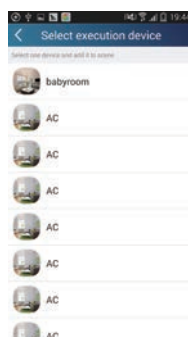
Preset device can't be selected and it will default to "babyroom". Select "On" for the timer type. Select repeating days to complete the preset.



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

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

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

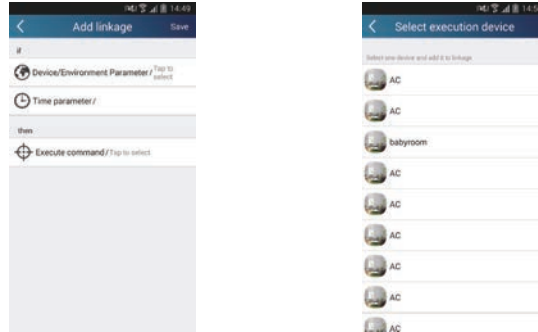


(4) Link(This function is APPLicable to some models)

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

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

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

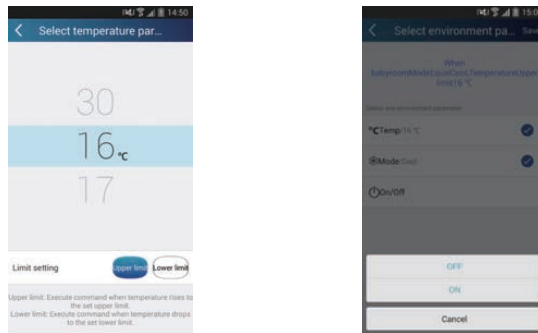


Enter the page "Select environment parameters".

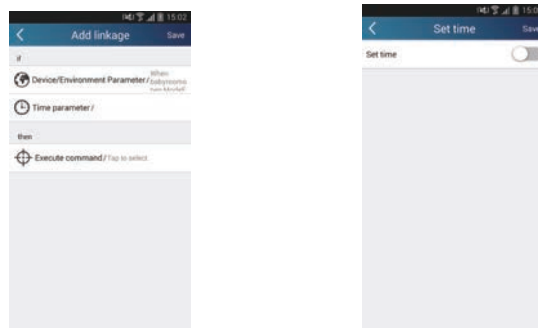


Tap "Temperature" to enter the page "Select temperature parameter". Slide up or down to adjust temperature. Tap "Upper limit" or "Lower limit".

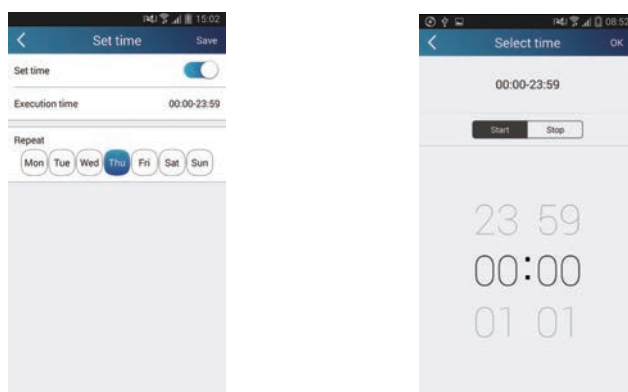
Tap "Mode" and "On/Off" to select the status of master device. Then tap "Save".



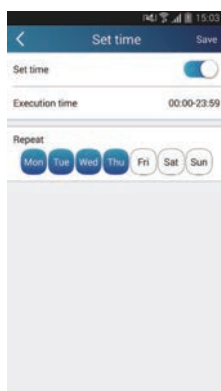
Step 2: Set time parameter for linkage. Tap "Time parameter" to enter the page "Set time". Slide rightwards to turn on the setting time.



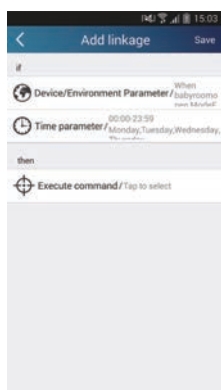
Tap "Execution time"; then tap "Start" and "Stop" to set start time and stop time respectively. Tap "OK" at the top right corner to save the setting.



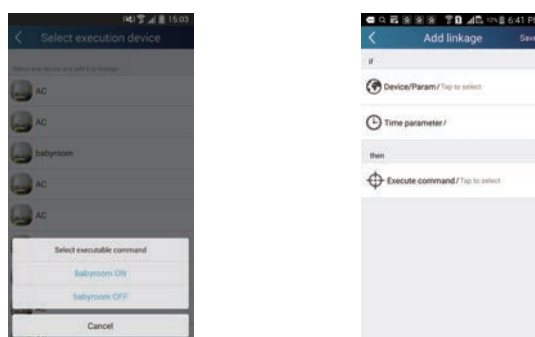
Tap the days below "Repeat" to select the repeating days. Then tap "Save".



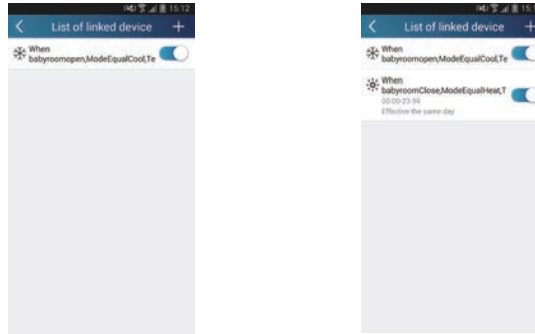
Step 3: Select "Execute command"
Tap "Execute command" and enter the page "Select device".



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





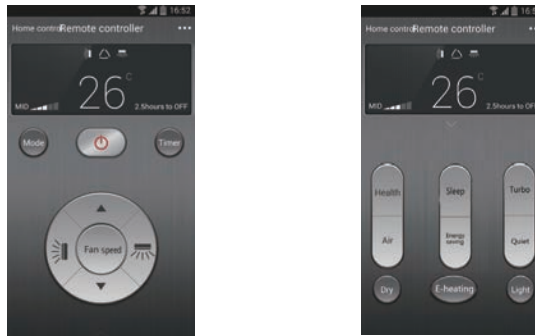
Tap "Save" and then repeat the above steps to set linkage of several scenes.



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

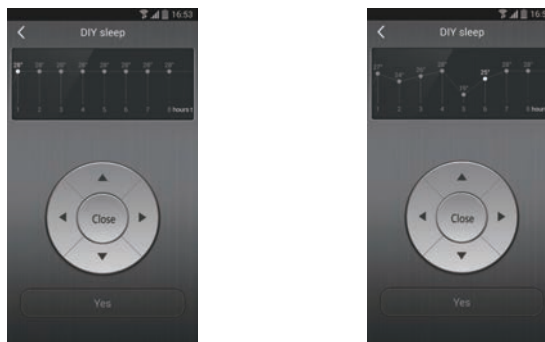
Function: Smart phone can be used as a remote controller.

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  to turn on the device. Tap  to select mode. Tap  to adjust fan speed and swing angle. Tap "Health", "Energy saving", "Sleep" etc. to set advanced functions.

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



4.Menu functions

Menu functions (Share, Set, History, Feedback)

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

Local export

Step 1: Export local data to another smart phone.

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

