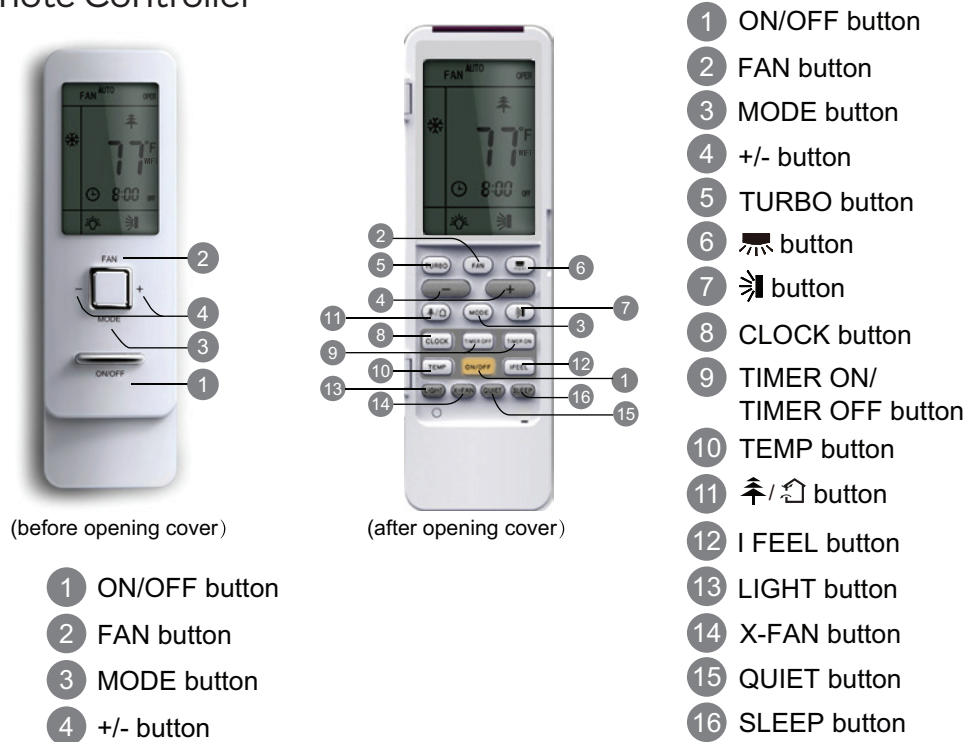


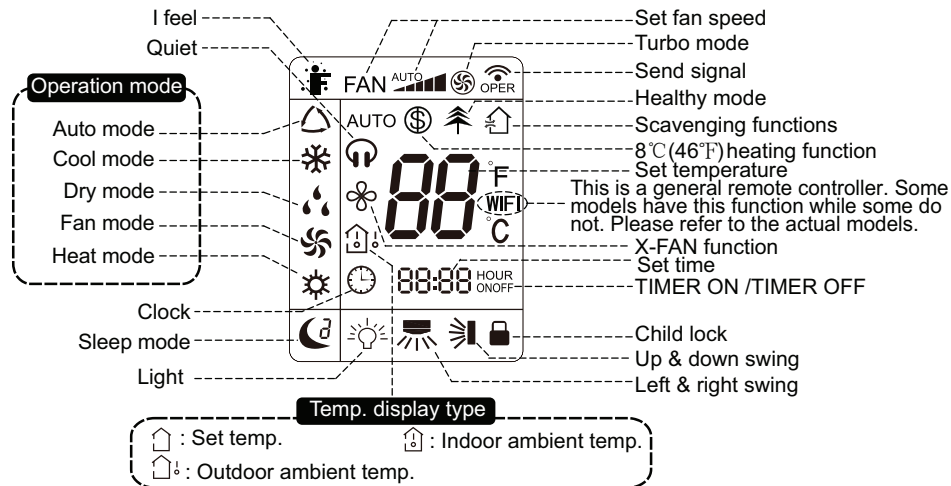
6. FUNCTION AND CONTROL

6.1 REMOTE CONTROLLER INTRODUCTION

Buttons on Remote Controller



Introduction for Icons on Display Screen



Introduction for Buttons on Remote Controller

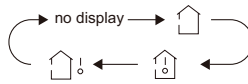
- This is general use remote controller. It is compatible with multifunctional air conditioners.
- Turning on the power will cause the unit to make noise. The operation indicator " ", red in color, will be illuminated. Once the power is turned on, you can operate the air conditioner by using the remote controller.
- While on, pressing any button on the remote controller will cause the signal icon " " to blink once, and the air conditioner will give out a sound indicating the signal has been sent.
- When off, the set temperature and clock icons will be displayed. If the timer and light functions are set, those icons will be displayed as well.

1. ON/OFF button

Pressing this button will turn on or turn off the air conditioner. When on, the green operation indicator on indoor units display will be on (color will vary for different models), and the indoor unit will make a sound.

10. TEMP Button

Pressing this button will reveal the indoor set temperature and the indoor ambient temperature on the display of the indoor unit. The setting is selected circularly as shown below:



NOTE:

- TEMP button is only for models with temperature indicator on indoor unit.
- Set temperature is defaulted to display on indoor unit during power up.
- Outdoor ambient temperature display is not available for models.

11. Button (This function is not available on all models).

Press this button to achieve the on and off of healthy and scavenging functions in operation status. Press this button for the first time to start scavenging function, LCD displays . Press the button for the second time to start healthy and scavenging functions simultaneously, LCD displays . Press the button for the third time to quit healthy and scavenging functions simultaneously. Press the button for the fourth time to start healthy function, LCD displays . Press this button again to repeat the operation above. (This function is applicable to partial of models).

12. I FEEL Button

Pressing this button once to start I FEEL function and "I FEEL" will be displayed. The remote controller will send the ambient temperature to the unit every 10 minutes. This will cause the unit to adjust and set the airflow accordingly in order to maximize energy savings while providing maximum comfort. Press the "I FEEL" button again to turn this feature off.

13. LIGHT Button

Pressing this button activates and deactivates the display light on the indoor unit. When powered on, the light feature is set to default.

14. X-FAN Button

For use in COOL or DRY mode: Pressing this button will activate the fan at low speed for 2 minutes in order to dry the indoor unit, the unit will then completely power down. On unit start-up, the X-FAN feature is defaulted to OFF. X-FAN feature is not available in AUTO, FAN or HEAT modes.

15. QUIET Button

Press this button to start QUIET mode - the remote controller will display (INSERT SYMBOL FROM PAGE 16) while QUIET mode is on. When the unit is first turned on, QUIET off will be defaulted. While using QUIET feature, the user will not have access to the FAN speed.

16. SLEEP Button

Press this button to enter SLEEP operation mode. Pressing this button will change SLEEP setting: ; pressing it a fourth time will cancel SLEEP function. When the unit is initially turned on, the SLEEP cancel is defaulted.

- SLEEP mode 1: In COOL & DEHUMIDIFY modes, SLEEP status will change after the first running hour. The main unit temperature setting will increase 1°F to 2°F. After two hours of continuous run time, the temperature setting will increase 3°F to 4°F. The unit will then run at this set temperature until the user changes it. In HEAT mode, SLEEP status will change after the first running hour. The main unit temperature setting will decrease 1°F to 2°F. After two hours of continuous run time, the temperature setting will decrease 3°F to 4°F. The unit will then run at this set temperature until the user changes it.
- SLEEP mode 2: The air conditioner will run according to the presetting temperature curve.

In COOL mode:

- o When the initial temperature setting is 61°F to 74°F and the SLEEP function is engaged, the main unit temperature setting will increase 1°F to 2°F. After two hours of continuous run time, the temperature setting will increase 5°F to 6°F. After seven hours, the main unit temperature will decrease 1°F to 2°F. The unit will then run at this set temperature until the user changes it.
- o When the initial temperature setting is 75°F to 80°F and the SLEEP function is engaged, the main unit temperature setting will increase 1°F to 2°F. After two hours of continuous run time, the temperature setting will increase 5°F to 6°F. After seven hours, the main unit temperature will decrease 1°F to 2°F. The unit will then run at this set temperature until the user changes it.
- o When the initial temperature setting is 81°F to 85°F and the SLEEP function is engaged, the main unit temperature setting will increase 1°F to 2°F. After seven hours, the main unit temperature will decrease 1°F to 2°F. The unit will then run at this set temperature until the user changes it.
- o When the initial temperature setting is 86°F and the SLEEP function is engaged, the main unit temperature setting will decrease 1°F to 2°F after seven hours. The unit will then run at this set temperature until the user changes it.

In HEAT mode:

- o When the initial temperature setting is 61°F and the SLEEP function is engaged, the set temperature will remain. The set temperature will stabilize until the user changes it.
- o When the initial temperature setting is 62°F to 68°F and the SLEEP function is engaged, the main unit temperature setting will decrease 1°F to 2°F. The unit will then run at this set temperature until the user changes it.
- o When the initial temperature setting is 69°F to 81°F and the SLEEP function is engaged, the main unit temperature setting will decrease 1°F to 2°F. After two hours of continuous run time, the temperature setting will decrease 3°F to 4°F. The unit will then run at this set temperature until the user changes it.
- o When the initial temperature setting is 82°F to 86°F and the SLEEP function is engaged, the main unit temperature setting will decrease 1°F to 2°F. After two hours of continuous run time, the temperature setting will decrease 5°F to 6°F. The unit will then run at this set temperature until the user changes it.

- SLEEP mode 3: SLEEP curve setting.
 - o Set SLEEP mode 3. Press and hold TURBO button for 5 seconds; this causes the remote controller to enter its user individualization sleep setting status. The remote will display "1 hour" and the set temperature "88" will display the corresponding temperature of the last set sleep curve.
 - o Pressing the + or – buttons will change the corresponding set temperature. After adjusting to your liking, press the TURBO button to confirm.
 - o Each 1 hour will be increased at the timer position on the remote controller by 1 hour. Subsequent reading will show as 2 hours, 3 hours, etc.
 - o After the user confirms the operation, the remote controller will display the original timer display and temperature display until those ambient factors meet the settings on the remote.

17. X-FAN Button

For use in COOL or DRY mode: Pressing this button will activate the fan at low speed for 2 minutes in order to dry the indoor unit, the unit will then completely power down. On unit start-up, the X-FAN feature is defaulted to OFF. X-FAN feature is not available in AUTO, FAN or HEAT modes

18. AUTO RUN

When AUTO RUN mode is selected, the set temperature will not be displayed on the LCD. The unit set temperature will determine what action the unit will take to make the room hot up or cool down based on the ambient temperature.

19. TURBO Button

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

20. LOCK Feature

Press the + or – buttons simultaneously to lock or unlock the keypad on the remote controller. If the remote controller is locked, the  icon will be displayed.

21. SWING Button – Up & Down

Pressing the SWING button will adjust the fan blowing angle.

- Hold  button for two seconds to set your required UP & DOWN swing angle. When you reach your desired angle, release the button.

22. SWING Button – Left & Right

Pressing the SWING button will adjust the fan blowing angle.

- Hold  button for two seconds to set your required LEFT & RIGHT swing angle. When you reach your desired angle, release the button.

23. Switch Between Fahrenheit and Centigrade

When the unit is off, press the MODE button and the – button simultaneously to switch between OC and OF.

24. Energy Saving Function

In COOL mode, press the TEMP button and the CLOCK button simultaneously to start the energy saving mode. The remote controller will display SE. Repeat this operation to quit the function.

25. Heating Function

In HEAT mode, press the TEMP button and CLOCK button to initiate the 8°C/46°F Heating Function. The remote controller will display . Repeat this operation to quit the function.

26. Auto Quiet Function

- In COOL mode, the indoor fan operates with 4 speeds. Once the indoor ambient temperature reaches 28°C or 82°F, indoor fan speed will operate only at 2 speeds.
- In HEAT mode, the indoor fan will operate with 3 speeds.
- In DRY mode, the indoor fan operates under QUIET mode.
- While in AUTO mode, the indoor fan operates in QUIET mode.

27. Sleep Function

While the unit is in FAN or AUTO mode, the SLEEP function cannot be started. If placed in DEHUMIDIFY mode, only SLEEP 1 can be selected. Entering any level of SLEEP mode, will automatically initiate QUIET mode.

28. Wi-Fi Button (NOT available on this model)

Pressing the Wi-Fi button will enable the Wi-Fi feature. Pressing this button again will turn off Wi-Fi. When Wi-Fi feature is ON, the "Wi-Fi" icon will be displayed on the remote controller. While the unit is powered OFF, pressing MODE and Wi-Fi buttons simultaneously for 1 second will reset the factory default on the units Wi-Fi module.

- Wi-Fi function not available on all models.

Operation Guide

1. General Operation

- Pressing the ON/OFF button will cause the unit to power on or off. (When powered on, the guide louver of the main unit will close automatically).
- Press the MODE button to select the desired running mode.
- Pressing the + or – button will allow the use to set the desired temperature. (It is unnecessary to set the temperature in AUTO mode).
- Pressing the FAN button will allow the user to set and vary the fan speed. User can choose from AUTO, FAN, LOW, MEDIUM-LOW, MEDIUM, MEDIUM-HIGH and HIGH.
- Press the  and  button to select the desired swing setting.

2. Optional Operation

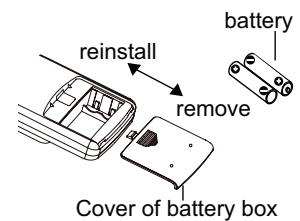
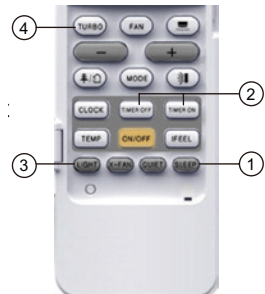
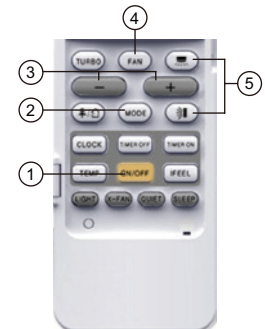
- Press the SLEEP button to select desired sleep settings.
- Press TIMER ON or TIMER OFF button to set timer scheduler.
- Press the LIGHT button to control the on and off setting for the remoter controller display. (This function may not be available on some units).
- Press the TURBO button to initiate ON and OFF of the TURBO function.

Replacement of Batteries in Remote Controller

- Press the back side of remote controller marked with " " as shown in the figure on the right, and then push out the cover of the battery box.
- Replace the two AAA batteries with fresh AAA batteries, making sure to position them on the correct polar sides "+" and "-".
- Reinstall the cover of the battery box.

NOTE:

- Aim the signal sending end (top) of the remote controller at the unit to operate.
- Distance between the unit and the remote controller should be no more than 20 feet and there should be no obstacles in between them.
- Remote controller signal may be interfered in the present of fluorescent lighting or wireless telephones.
- Replace batteries when remote control signal is weak or when display becomes fuzzy or difficult to read.
- Remove batteries during prolonged periods of time where the controller will not be used.



6.2 OPERATION OF SMART CONTROL (SMART PHONE, TABLET PC) FOR AC PRO

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 AC Pro Smart in Apple store to download the Apple version APP.

Configuration

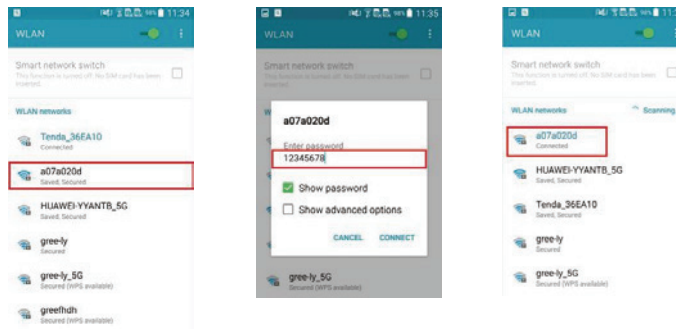
NOTE: Select either the original configuration or AP configuration according to the APP functions.

1. Original configuration

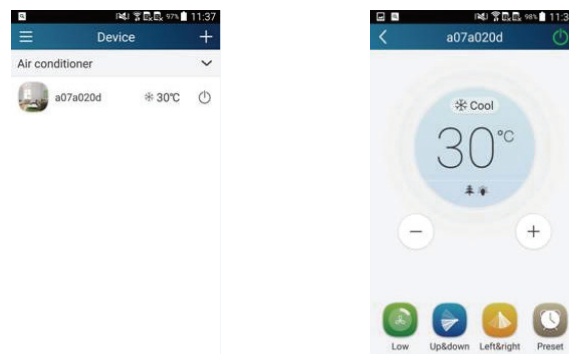
Before operation, please finish the following configuration in order to understand Wifi control and the connection between air conditioner and smart device.

- 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 you just connected. Tap the name of this air conditioner on your phone to enter short-distance control, as shown below. Please refer to "Functions introduction" for specific control methods.



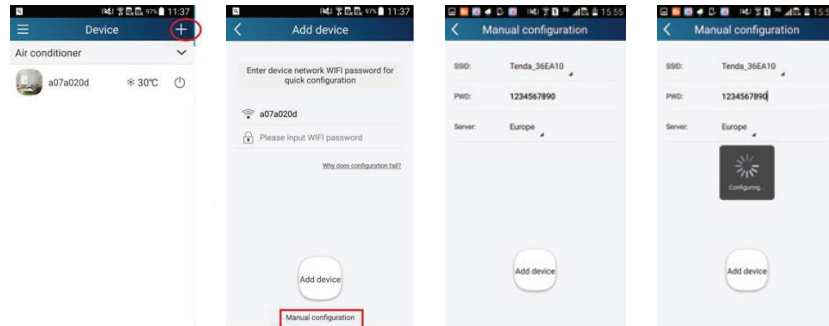
NOTE: One AC can be controlled by up to 4 smart phones at the same time.

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".

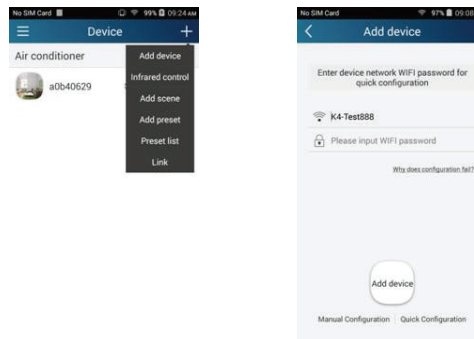
Select "Add device" and enter the page of "Add device". Tap "Manual configuration" and enter the page "Manual configuration".

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 sound when configuration succeeds.

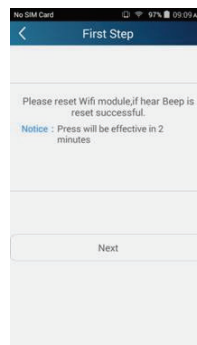


2. AP configuration

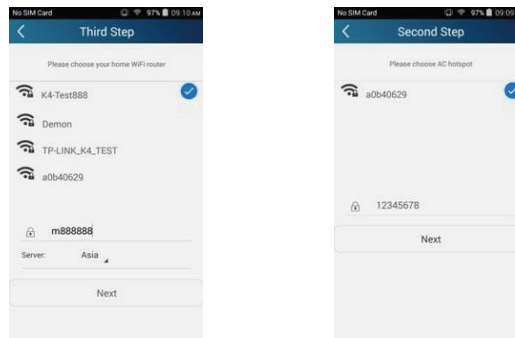
Step 1: Enter homepage "Device", and then tap  at the top right corner. Select "Add device" and enter the page "Add device". Tap "Manual Configuration".



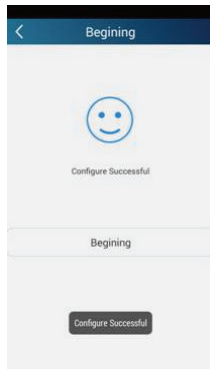
Step 2: Tap "Next" in the First Step.



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.



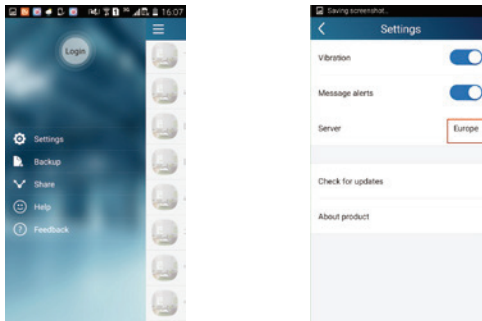
NOTE: After configuration is completed, the air conditioner hot spot connected to your phone will disappear. You should reconnect your phone to the home Wifi router for long-distance control.
The above configuration only needs one phone. Other types of phones shall install this APP, connect with the 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 long-distance control.

Functions introduction

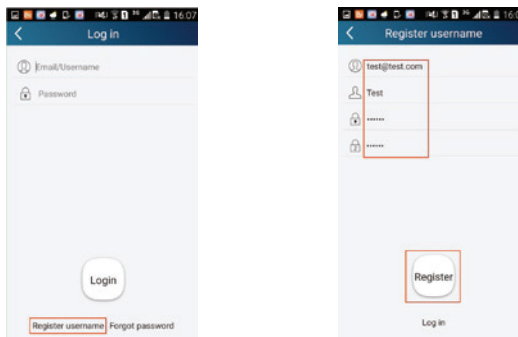
1. User registration

Operation instruction: For the first 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:

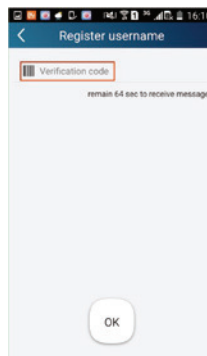
a. Select the server address



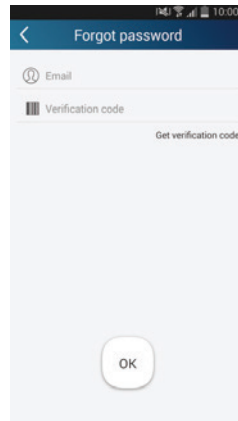
b. Account login: Slide page "Device", and enter page "Menu" on the left. Tap "Login" to enter page "Register username". New user must first register a username. Tap "Register".



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



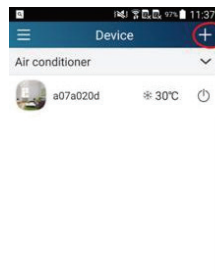
- d. If password is forgotten, you can reset the password with your email address.
Tap "Forgot password" and enter page "Forgot password". Tap "Get verification code" to get an email verification code. Enter a new password and tap "OK" to log in.



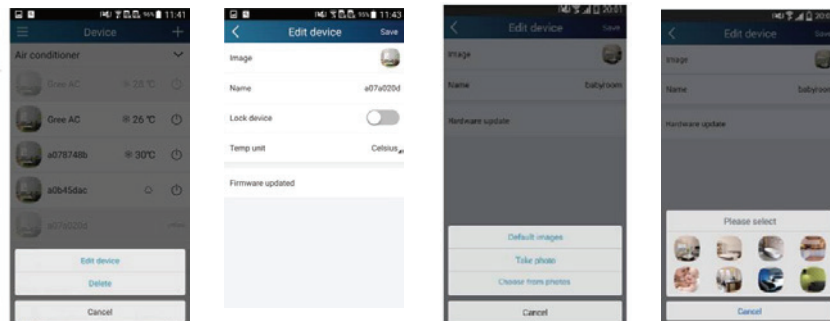
1. Personal settings

- a. Set device name

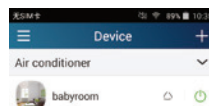
After quick configuration, a list of controllable smart devices will be generated. Default name for air conditioner is the last 8 numbers of the air conditioner mac address.



Step 1: Tap and hold "aOb417ac" to enter page "Edit device". Tap "Image" to select the source of image. Select from "Default images" or "Take photo" or "Choose from photos" and save an image.



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

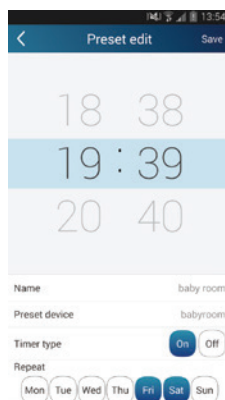


Step 3: Tap "Firmware update" to upgrade the firmware of the device. Tap "1.8" and then the device will be updated automatically.

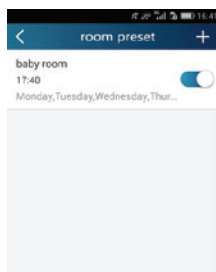


b. Set preset name

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



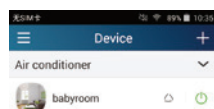
c. Set device image Please refer to step 1 in 2(1)

3. Control functions

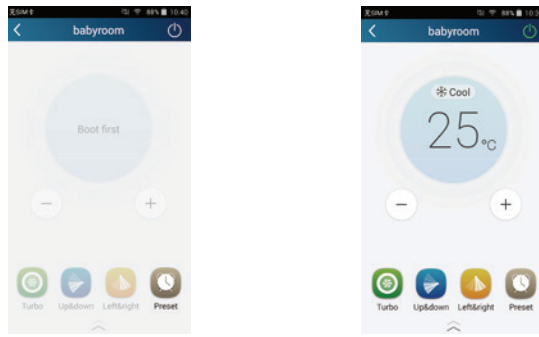
a. Common control functions: General control on the operation of smart devices (On/Off, temperature, fan speed, mode, etc.) and the setting of advanced functions (air exchange, dry, health, light, sleep, energy saving upper limit).

Step 1: General control

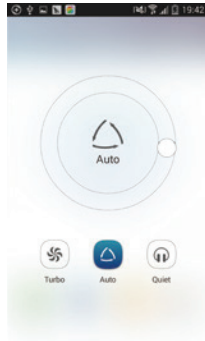
Enter homepage "Home control" first. Take "babyroom" as an example.



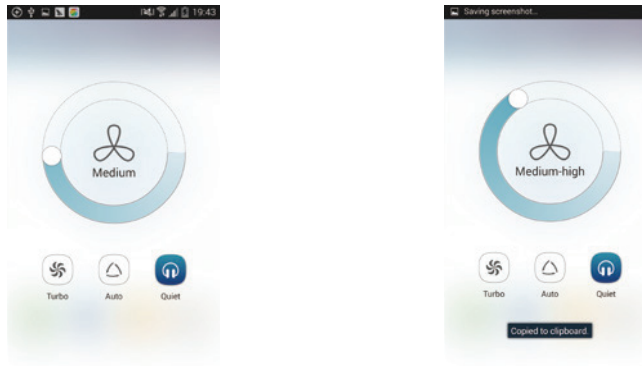
Tap "babyroom" and enter the page of air conditioner control. Tap  to turn on the control switch.



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

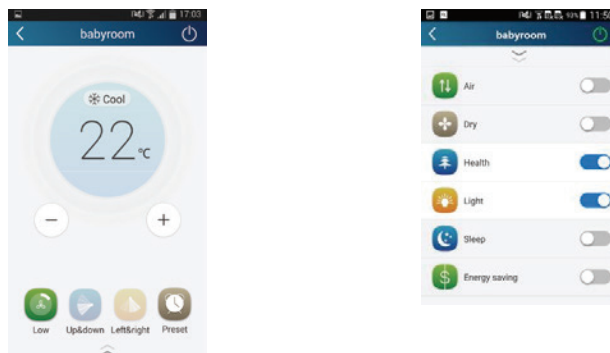


Tap and go around the circle to adjust fan speed.



Step 2: Advanced settings

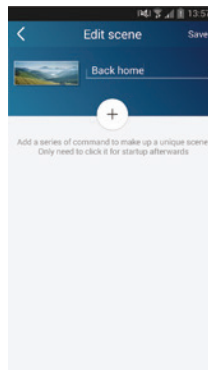
Tap to enter advanced settings. You may select "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving".



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

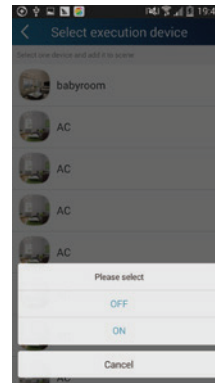
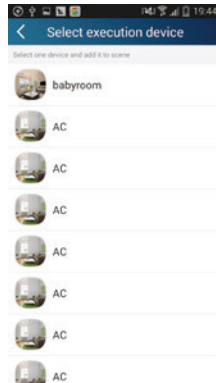
Set scene: Preset the operation of several smart devices by one tap.

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

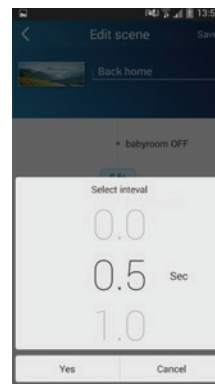
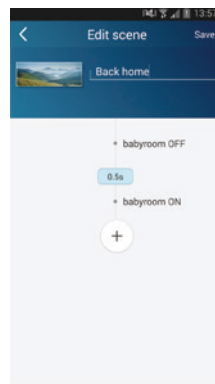


Tap "Add scene" and edit the scene name, for example, "Back home". Add execution devices.

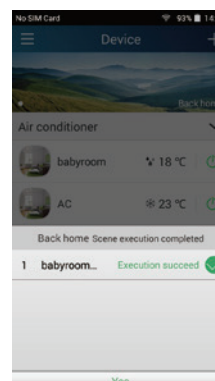
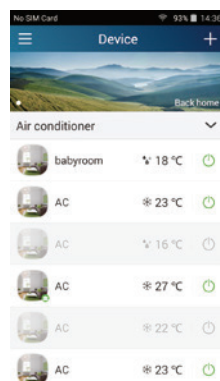
Tap  to add commands. On page "Select execution device", select the air conditioner named "babyroom". Then select "ON" or "OFF".



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



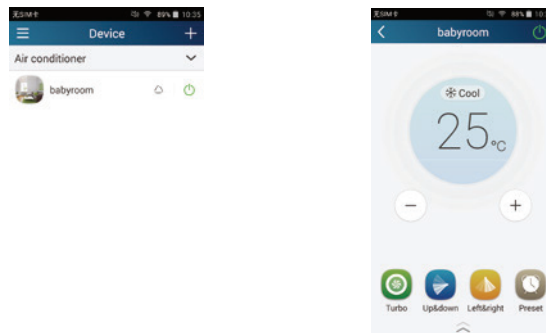
Tap "Save". Tap the scene picture displayed on homepage "Device" to send the command. Then the scene "Back home" will be in execution. You may view the execution condition of the scene.



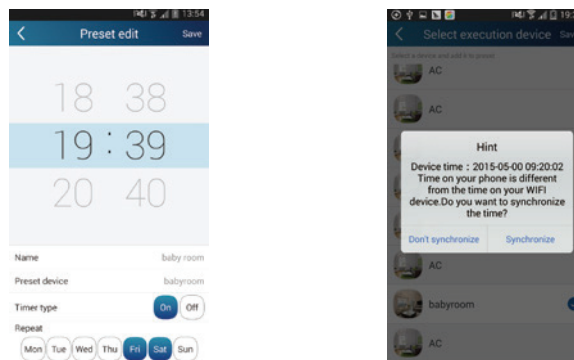
(3) Preset includes single-device preset and multi-device preset

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".

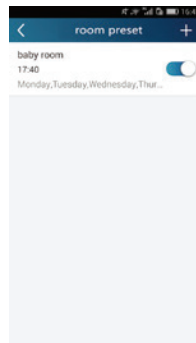


Slide up and down to set the time. If you need to synchronize the time, tap "synchronize". If such "Hint" interface doesn't appear, please skip this operation step.



Tap "Name" to customize the preset name.

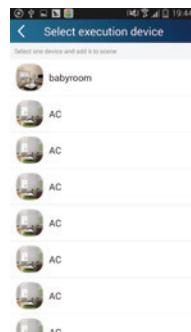
Preset device can't be selected and it will default to "babyroom". Select "On" for timer type. Select repeating days to complete the preset.



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 page "Device".

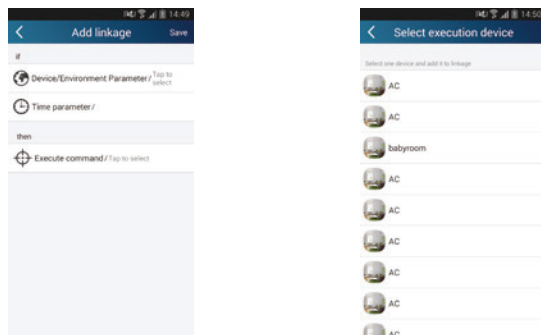


(4) Link(This function is Applicable to some models)

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).

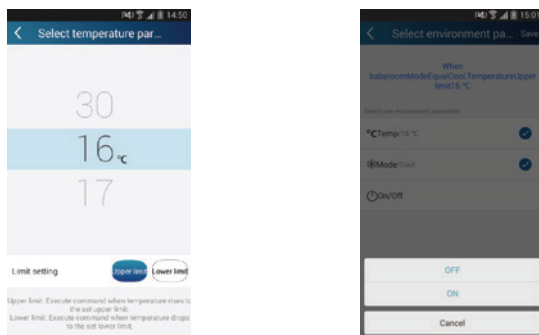
Tap **+** at the top right corner of the homepage "Device". Select "Link" and enter the page "Add linkage". Tap "Device/Param" to enter page "Select device". Take "baby room" as an example. Tap "babyroom".



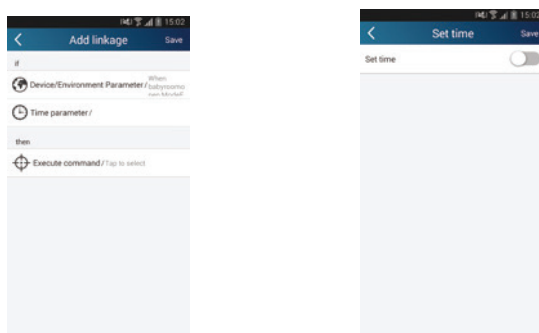
Enter page "Select environment parameters".



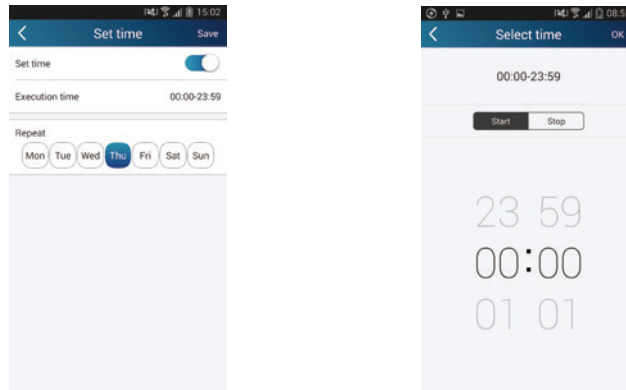
Tap "Temperature" to enter page "Select temperature parameter". Slide up or down to adjust temperature. Tap "Upper limit" or "Lower limit". Tap "Mode" and "On/Off" to select the status of master device. Then tap "Save".



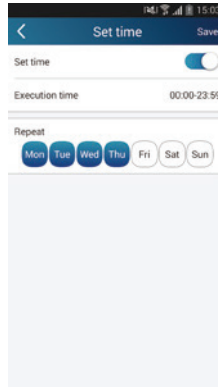
Step 2: Set time parameter for linkage. Tap "Time parameter" to enter the page "Set time". Slide outward to turn on the setting time.



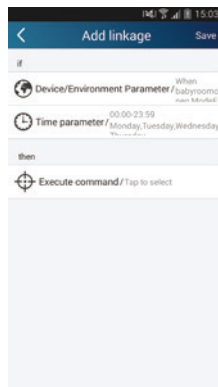
Tap "Execution time"; then tap "Start" and "Stop" to set start time and stop time respectively. Tap "OK" at the top right corner to save the setting.



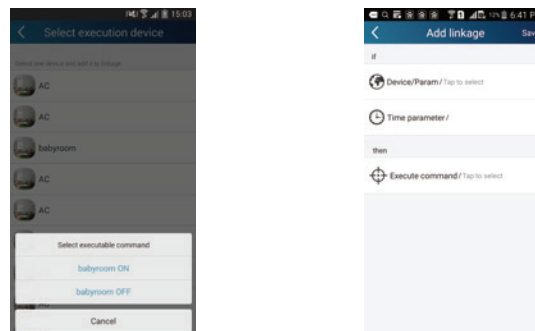
Tap the days below "Repeat" to select the repeating days. Then tap "Save".



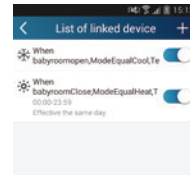
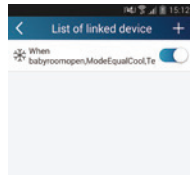
Step 3: Select "Execute command"
Tap "Execute command" and enter page "Select device".



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



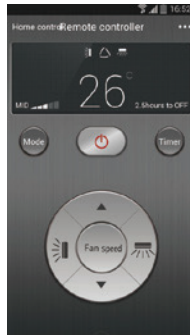
Tap "Save" and then repeat the above steps to set linkage of several scenes.



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

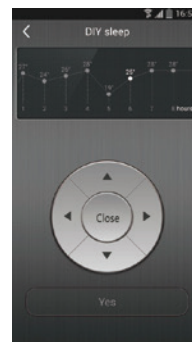
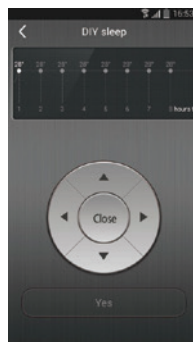
Function: Smart phone can be used as a remote controller.

Tap at the top right corner of the homepage "Device". Select "Infrared" and enter 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 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

Share, Set, History, Feedback

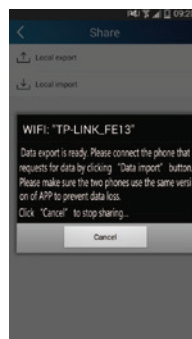
(1) Share: To share quick configuration information and unit's information, including local export and local import.

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

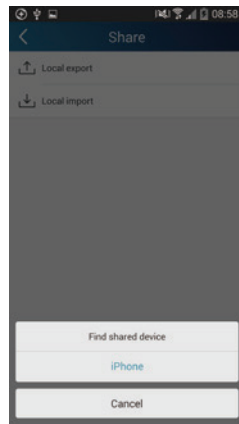
Local export

Step 1: Export local data to another smart phone.

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



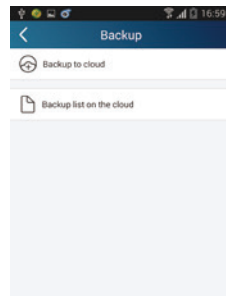
Step 2: Another smart phone to be imported.
Tap the model name and wait for the download.



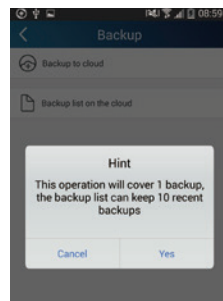
(2) Backup: To keep backup of the quick configuration information and unit's information, including backup to cloud and backup list on the cloud.

Backup to cloud

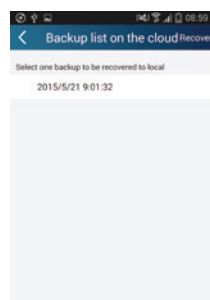
Enter the "Menu" on the left and tap "Backup".



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



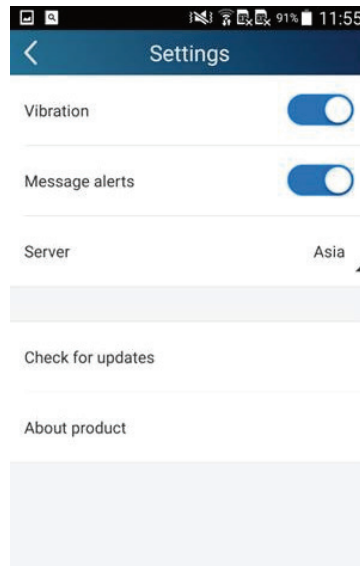
Select "Backup list on the cloud". Then backup records will appear. Tap "Record" to download data and recover data to local unit.



(3) Settings

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

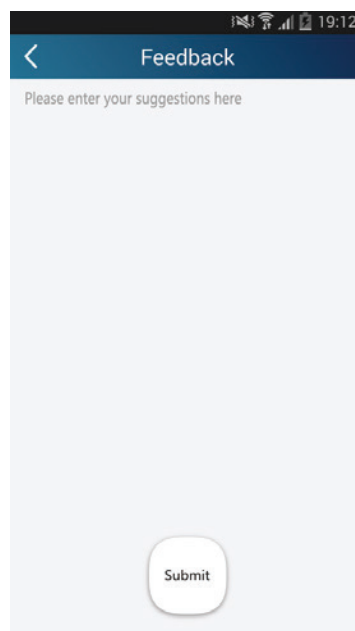
Otherwise, remote control will be invalid.



(4) Feedback

User can feedback suggestions to back-stage management for maintenance and development.

Tap "Feedback". Enter your suggestions and then submit it.



6.3 OPERATION OF SMART CONTROL (SMART PHONE, TABLET PC)

OPERATION INSTRUCTIONS

DOWNLOAD AND INSTALL APP

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



Install the APP according to its guidance. When successfully installed, your smart phone homepage will show this icon . User of IOS system can search for AC Pro Smart in Apple store to download the Apple version APP.

Configuration

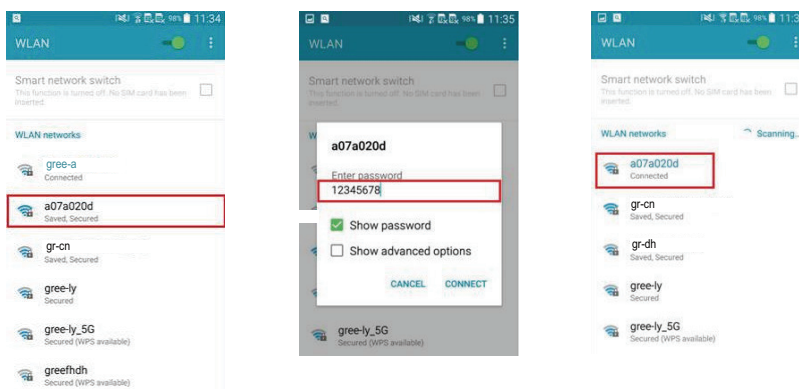
NOTE: Select either the original configuration or AP configuration according to the APP functions.

1. Original configuration

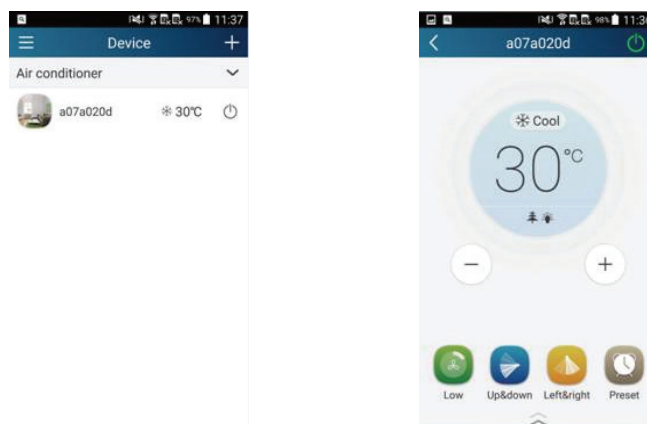
Before operation, please finish the following configuration in order to understand Wifi control and the connection between air conditioner and smart device.

- 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.

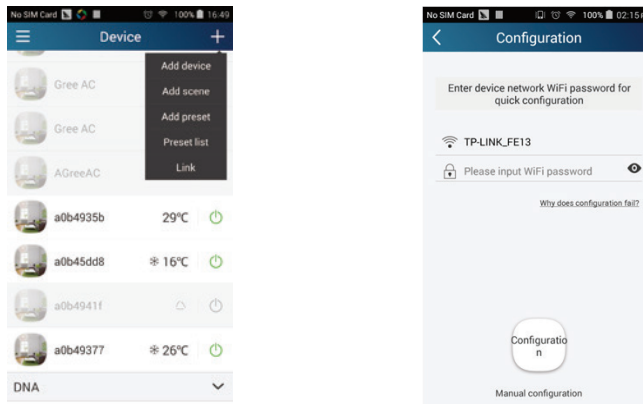


Step 2: Open APP and the screen will show the air conditioner you just connected. Tap the name of this air conditioner on your phone to enter short-distance control, as shown below. Please refer to "Functions introduction" for specific control methods.

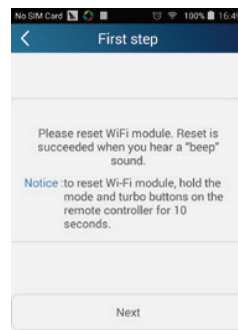


2. Configuration method for Android phones

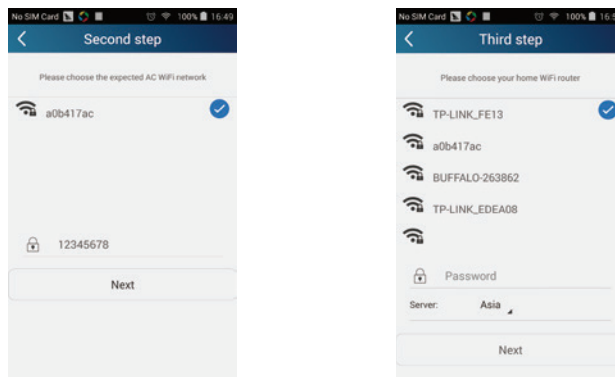
Step 1: Enter homepage "Device", and then tap  at the top right corner.
Select "Add device" and enter page "Add device".
Tap "Manual configuration" and enter page "Manual configuration".



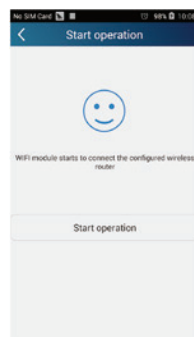
Step 2: Tap "Next" in the First Step.



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.



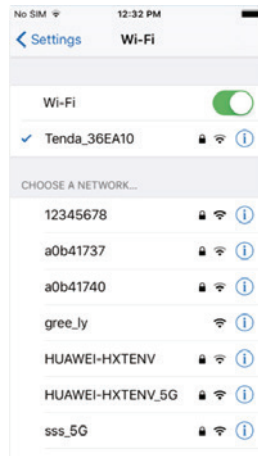
Step 4: If configuration is successful, a window will pop up and read "WiFi module starts to connect the configured wireless router". Then configuration is completed.



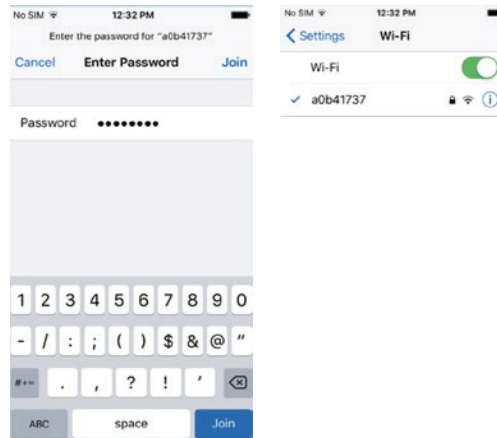
NOTE: After configuration is completed, the air conditioner hot spot connected to your phone will disappear. You should reconnect your phone to the home WiFi router for long-distance control. The above configuration only needs one phone. Other types of phones can install this APP, connect with the air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

3.Configuration method for Apple phones

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



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



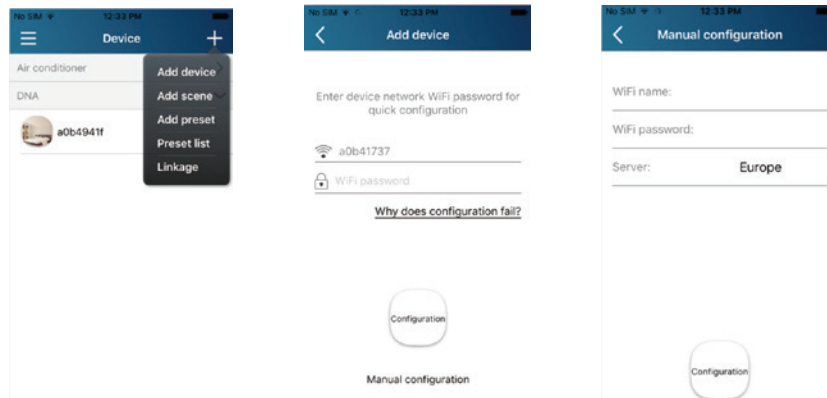
Step 3: Turn on APP, press "+" button, press "Add device" to enter into page of "Add device" and then select "Manual configuration". Enter wireless router's SSID and PSW on the page of "Manual configuration". The display on the server will be the same as the selection when registering the account (server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

Eg: WiFi name: Tenda_XXX;

WiFi password:123456789

Server: Europe

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



Notice:

Press "Configuration", and APP will send the information to Wifi Smart. At this time, the buzzer will sound, which indicates it has started to connect the wireless router.

- If the name of router or the password is wrong, Wifi Smart can't connect to the wireless router after 2 minutes conduct the configuration operation again. Reset Wi-Fi adaptor by pointing the remote at the indoor unit and holding the mode and Turbo buttons on your remote control for 10 seconds until you hear the beep.
- Wrong server selection will cause the long-distance control to be invalid. 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 OPEN mode.
- Configuration should be conducted at this time. As for other phones, they can automatically search for the device after connecting to the wireless router (such as Tenda_XXX) and turning on the APP.

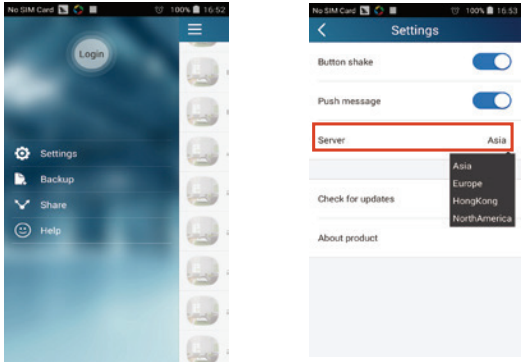
Functions introduction

1. User registration

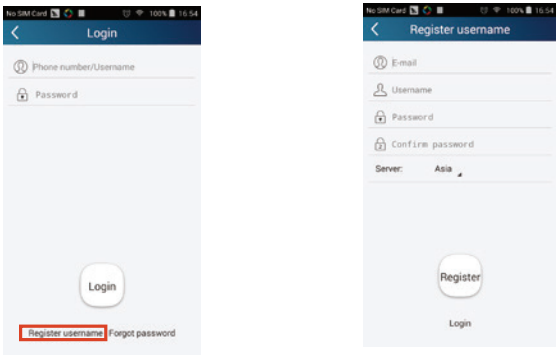
Operation instruction: For the first login, you have to register a new username. If you already have a username, skip the registration step and enter email address and password on the "Login Page" to log in. If password is forgotten, you can reset the password.

Operation steps:

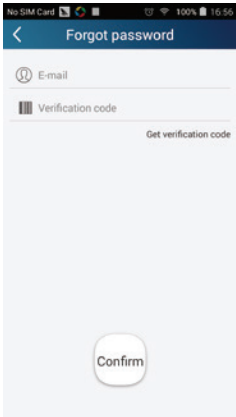
(1) Select the server address.



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



(3) If password is forgotten, you can reset the password with your email address. Tap "Forgot password" and enter page "Forgot password". Enter your registered email account the first. Tap "Get verification code" to get an email verification code. Enter a new password and tap "OK" to log in.



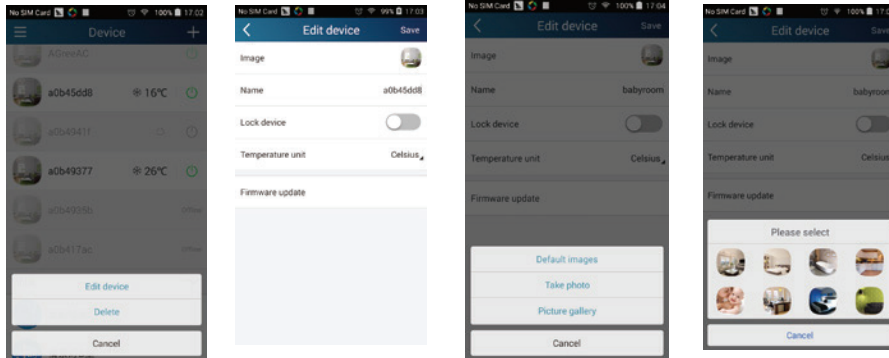
2. Personal settings

(1) Set device name

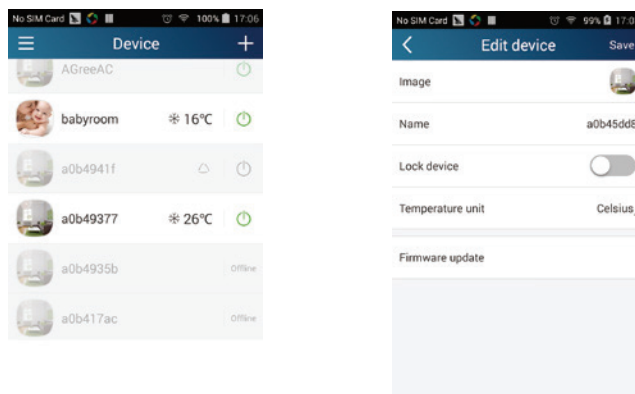
After configuration, a list of controllable smart devices will be generated. Default name for air conditioner is the last 8 numbers of the air conditioner mac address.



Step 1: Tap and hold the Wifi model name, such as "aOb417ac", to enter page "Edit device". Tap "Image" to select the source of image. Select from "Default images" or "Take photo" or "Choose from photos" and save an image.

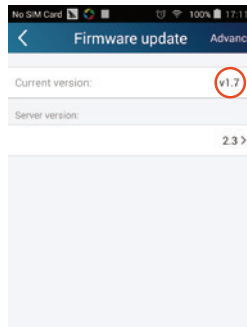


Step 2: Tap "Name" to change device name. Save it and the new device name will be shown. Enable button "Lock device" to lock the device so that other smart phones can't search the device. Tap "Temperature unit" to change the temperature.



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

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

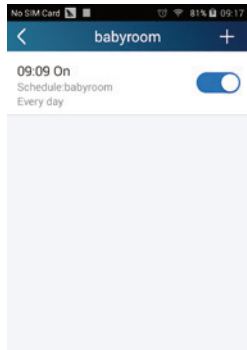


(2) Set preset name

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



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



(3) Set device image

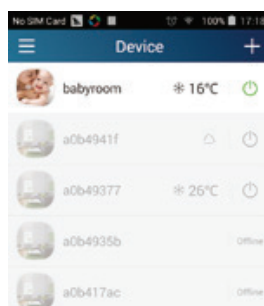
Please refer to step 1 in 2(1)

3.Control functions

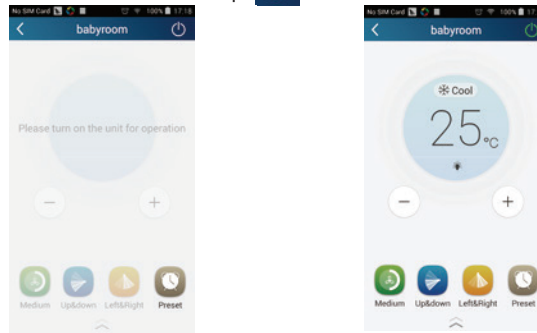
(1) Common control functions: General control on the operation of smart devices (On/Off, temperature, fan speed, mode, etc.) and the setting of advanced functions (air exchange, dry, health, light, sleep, energy saving upper limit).

Step 1: General control

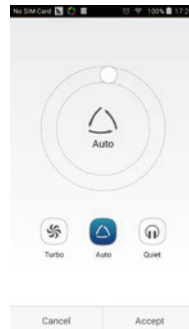
Enter the homepage "Device" first. Take "babyroom" as an example.



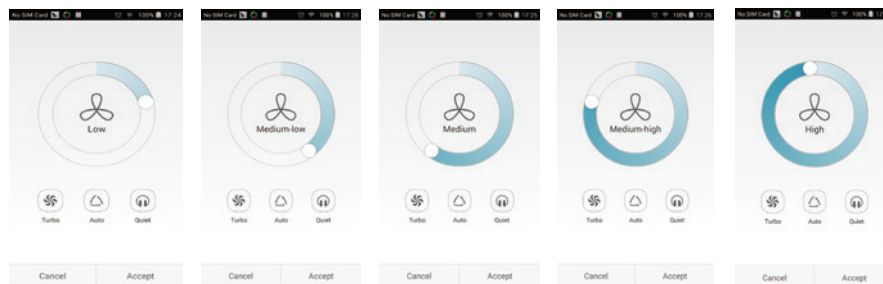
Tap "babyroom" and enter the page of air conditioner control. Tap  to turn on the control switch.



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

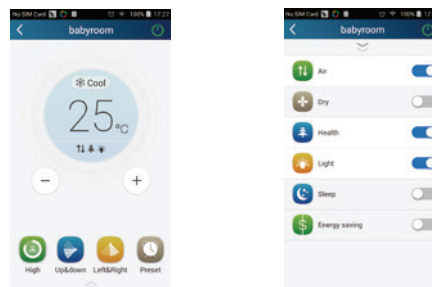


Tap  and go around the circle to adjust fan speed.

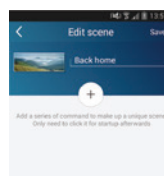


Step 2: Advanced settings

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

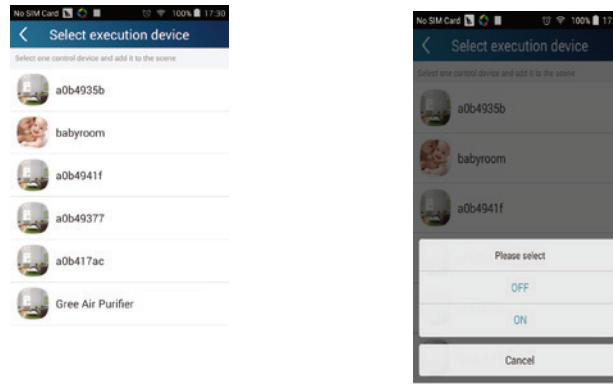


(2) Advanced control functions; Set scene; Preset; Link: Infrared control (only applicable to smart phones with infrared emitter)
Set scene: Preset the operation of several smart devices by one tap. On page "Device", tap the image of "Device" to enter page "Edit scene".

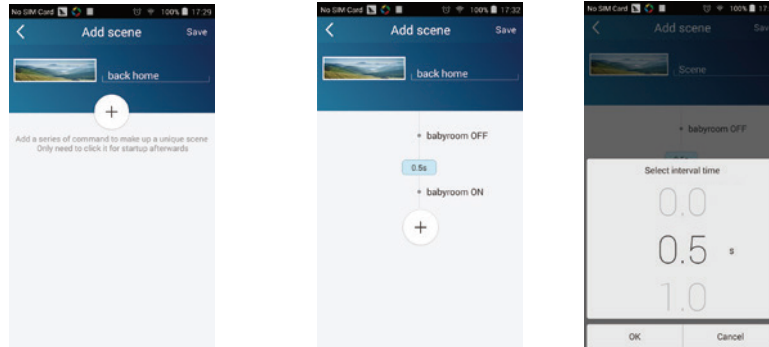


Tap "Add scene" and to edit scene name, for example, "Back home". Add execution devices.

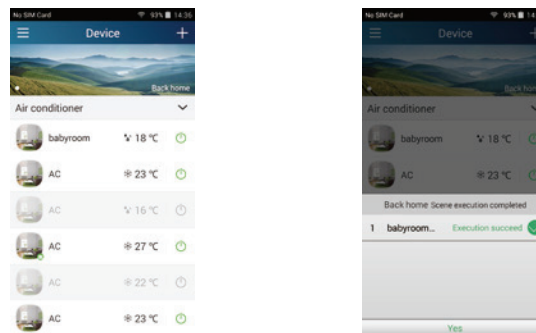
Tap  to add commands. On the page "Select execution device", select the air conditioner named "babyroom". Then select "ON" or "OFF".



Continue to select the next execution device as instructed above. Tap **0.5s** to set the interval.



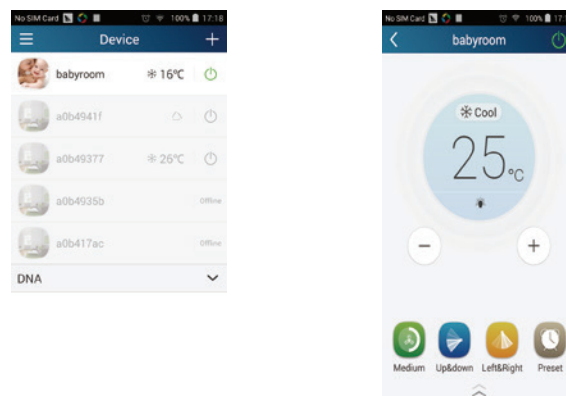
Tap "Save". Tap the scene picture displayed on homepage "Device" to send the command. Then the scene "Back home" will be in execution. You may view the execution condition of the scene.



(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 **Preset** at the bottom of the page "babyroom".

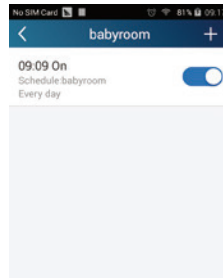
Then you will enter the page "Preset edit".



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 step.

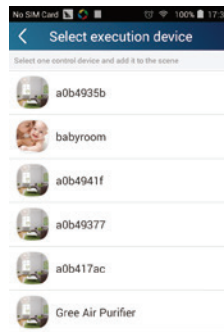
Tap "Name" to customize the preset name.

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



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

Please refer to the instructions as how to set preset time, name, timer type and repeating days for a single device. Tap "Preset device" to select one or more devices. Then return to the page "Device".

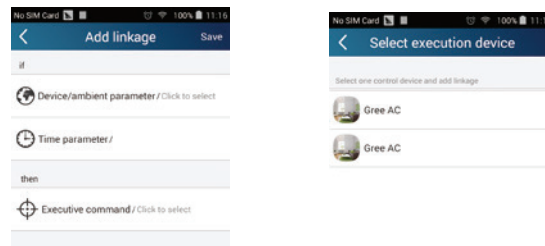


(4) Link(This function is applicable to some models)

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".

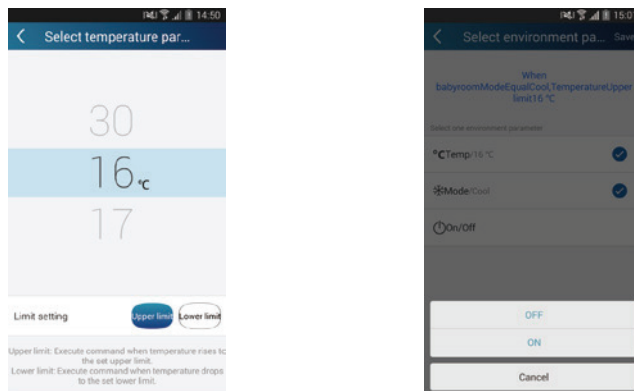


Enter the page "Select environment parameters".

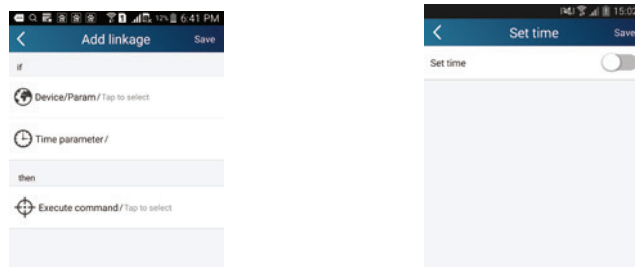


Tap "Temperature" to enter the page "Select temperature parameter". Slide up or down to adjust temperature. Tap "Upper limit" or "Lower limit".

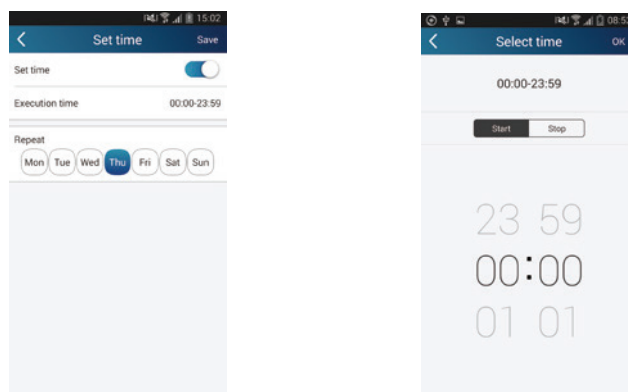
Tap "Mode" and "On/Off" to select the status of master device. Then tap "Save".



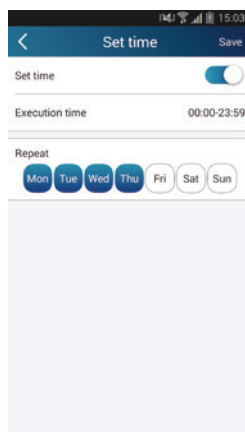
Step 2: Set time parameter for linkage. Tap "Time parameter" to enter page "Set time". Slide ☐ right to turn on the setting time.



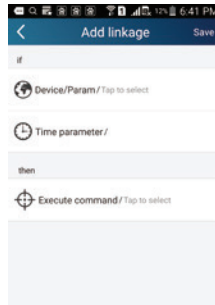
Tap "Execution time"; then tap "Start" and "Stop" to set start time and stop time respectively. Tap "OK" at the top right corner to save the setting.



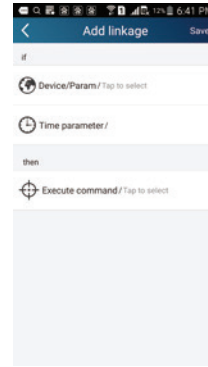
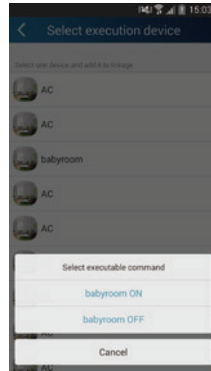
Tap the days below "Repeat" to select the repeating days. Then tap "Save".



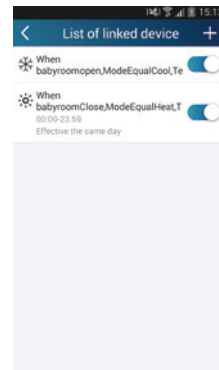
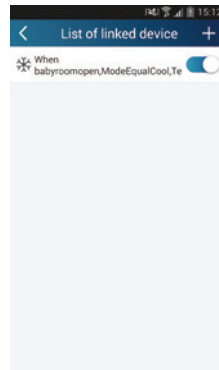
Step 3: Select "Execute command" Tap "Execute command" and enter the page "Select device".



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.



4.Menu functions

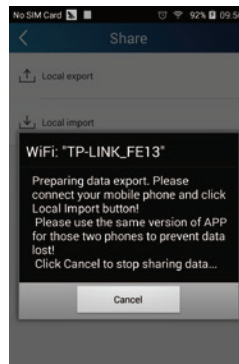
Menu functions (Share, Set, History, Feedback)

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

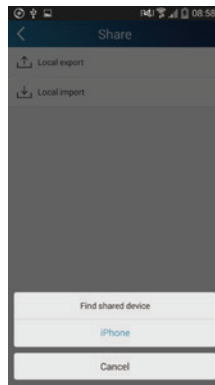
Local export

Step 1: Export local data to another smart phone.

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



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



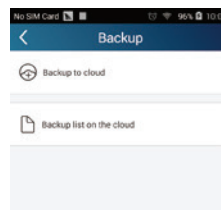
Notice:

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

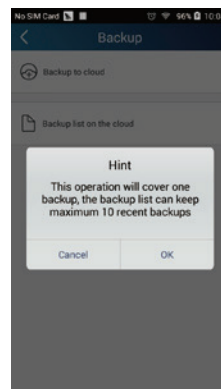
(2) Backup: To keep backup of the quick configuration information and unit's information, including backup to cloud and backup list on the cloud.

Backup to cloud

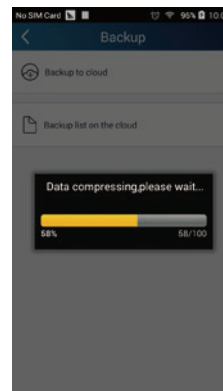
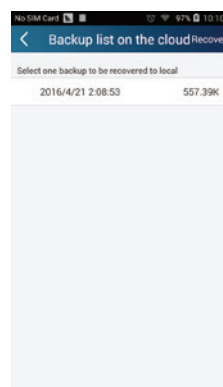
Enter the menu page on the left and tap "Backup".



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

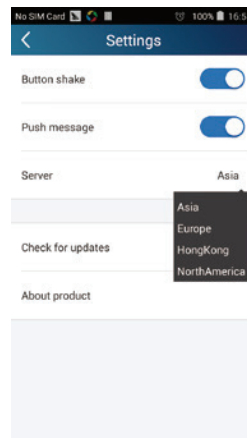


Select "Backup list on the cloud". Then backup records will appear. Tap "Record" to download data and recover data to local unit.



(3) Settings

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



(4) Help

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

6.4 FUNCTION AND CONTROL

1. Temperature Parameters

- Indoor preset temperature (T_{preset})
- Indoor ambient temperature (T_{amb})

2. Basic Functions

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

(1) Cooling Mode

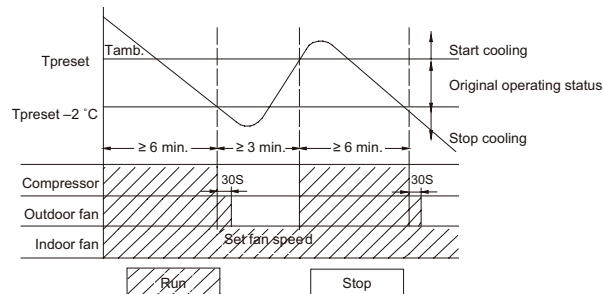
If $T_{\text{amb}} \geq T_{\text{preset}}$ cooling mode will act, the compressor and outdoor fan will run, and the indoor fan will run at the set speed.

If $T_{\text{amb}} \leq T_{\text{preset}} - 2^\circ\text{C}$ or 3.6°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 $T_{\text{preset}} - 2^\circ\text{C}$ or $3.6^\circ\text{F} < T_{\text{amb}} < T_{\text{preset}}$, the unit will keep running in the previous mode.

When $0 \leq T_{\text{preset}} - T_{\text{amb}} < 2^\circ\text{C}$ or 3.6°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 $T_{\text{amb}} - T_{\text{preset}} \geq 1^\circ\text{C}$ or 1.8°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 $16\text{--}30^\circ\text{C}$ or $60.8\text{--}86^\circ\text{F}$.



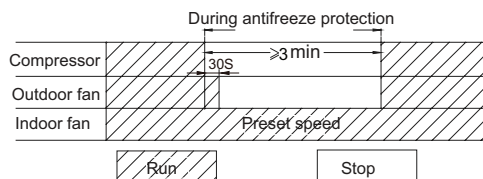
(2) Protection Function

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 delay 30 seconds to stop, indoor unit will display E5 and outdoor yellow light will blink 5 times.

Anti-freezing Protection:

When the anti-freezing 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 anti-freezing protection is eliminated and the compressor has stopped for 3 minutes, the compressor will resume running in the original mode.



(3) Dehumidifying Mode

Working Conditions and Process of Dehumidifying:

If $T_{\text{amb}} > T_{\text{preset}}$ 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 $T_{\text{preset}} - 2^\circ\text{C}$ or $3.6^\circ\text{F} \leq T_{\text{amb}} \leq T_{\text{preset}}$, the compressor remains at its original operational state.

If $T_{\text{amb}} < T_{\text{preset}} - 2^\circ\text{C}$ or 3.6°F , the compressor will stop, the outdoor fan will stop with a time lag of 30 seconds, and the indoor fan will operate at low speed.

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 delay 30 seconds to stop, indoor unit will display E5 and outdoor yellow light will blink 5 times.

Anti-freezing Protection:

When the anti-freezing 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 anti-freezing protection is eliminated and the compressor has stopped for 3 minutes, the compressor will resume running in the original mode.

(4) Heating Mode

If $T_{\text{amb}} \leq T_{\text{preset}} + 2^\circ\text{C}$ or 3.6°F , heating mode will act, the compressor and outdoor fan and reversal fan will run, the indoor fan will delay 3 minutes to stop at the latest.

If $T_{\text{preset}} + 2^\circ\text{C}$ or $3.6^\circ\text{F} < T_{\text{amb}} < T_{\text{preset}} + 5^\circ\text{C}$ or 9°F , the unit will keep running in the original mode.

If $T_{\text{amb}} \geq T_{\text{preset}} + 5^\circ\text{C}$ or 9°F , the compressor will stop, the outdoor fan will delay 30 seconds to stop and the indoor fan will 60 seconds at low speed, the fan speed cannot be shifted within blow residual heat.

In this mode, the temperature setting range is $16\text{--}30^\circ\text{C}$ or $60.8\text{--}86^\circ\text{F}$.

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

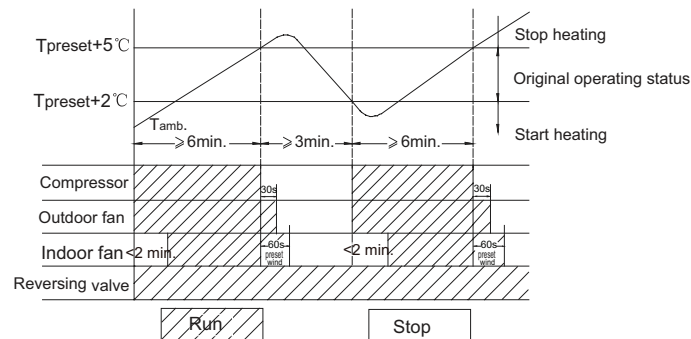
When the unit is turned off in heating mode, or switched to another mode from heating mode, the four-way valve will be powered off after the compressor stops.

When compressor is running not including malfunction and protection mode.

When outdoor ambient temperature $\geq 20^{\circ}\text{C}$ or 68°F and indoor fan speed is low to medium, the fan speed will turn to high, if motor fan speed is high or super high, it will keep the same.

When outdoor ambient temperatures $\leq 18^{\circ}\text{C}$ or 64.4°F , the fan speed will resume set speed.

When 18°C or $64.4^{\circ}\text{F} < \text{outdoor ambient temperature} < 20^{\circ}\text{C}$ or 68°F , it will run at present fan speed (set fan speed or high fan speed); but when first exiting cold air prevention after entering heating mode, it will run in set fan speed.



(5) Condition and Process of Defrost:

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

$T_{\text{outdoor ambient temperature}} > 5^{\circ}\text{C}$ or 41°F , $T_{\text{outdoor tube}} \leq -2^{\circ}\text{C}$ or 28.4°F .

-2°C or $28.4^{\circ}\text{F} \leq \text{outdoor ambient} < 5^{\circ}\text{C}$ or 41°F , $T_{\text{outdoor tube}} \leq -6^{\circ}\text{C}$ or -21.2°F .

-5°C or $23^{\circ}\text{F} \leq T_{\text{outdoor ambient}} < -2^{\circ}\text{C}$ or 28.4°F , $T_{\text{outdoor tube}} \leq -8^{\circ}\text{C}$ or 17.6°F .

-10°C or $14^{\circ}\text{F} \leq \text{outdoor ambient} < -5^{\circ}\text{C}$ or 23°F , $T_{\text{outdoor tube}} - T_{\text{compensatory}} \leq (T_{\text{outdoor ambient}} - 3^{\circ}\text{C}$ or $5.4^{\circ}\text{F})$.

$T_{\text{outdoor ambient}} < -10^{\circ}\text{C}$ or 14°F , $T_{\text{outdoor tube}} - T_{\text{compensatory}} \leq (T_{\text{outdoor ambient}} - 3^{\circ}\text{C}$ or $5.4^{\circ}\text{F})$ (after energizing, $T_{\text{compensatory}} = 0^{\circ}\text{C}$ or 32°F) or during the first defrosting; if it is not the first defrosting, $T_{\text{compensatory}}$ is confirmed by $T_{\text{outdoor tube}}$ of quitting last defrosting. When $T_{\text{outdoor tube}} > 2^{\circ}\text{C}$ or 35.6°F , $T_{\text{compensatory}} = 0^{\circ}\text{C}$ or 32°F . When $T_{\text{outdoor tube}} \leq 2^{\circ}\text{C}$ or 35.6°F , $T_{\text{compensatory}} = 3^{\circ}\text{C}$ or 37.4°F .

At this time, the indoor fan stops and the compressor stops and after 30 seconds, the outer fan will stop and then after 30 seconds the four-way valve will shut. 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 $T_{\text{outdoor ambient}} \geq 10^{\circ}\text{C}$ or 50°F , the compressor will be converted to 46Hz operation. After 30 seconds, the compressor will stop. After another 30 seconds, the four-way valve will open and after 60 seconds, the compressor and outer fan will be started. The indoor fan will run under preset cold air prevention conditions and H1 will be displayed on the temperature display area on the display panel. Defrost frequency is 85Hz.

Cold Air Prevention

The unit is started while in heating mode (the compressor is on).

In case of $T_{\text{indoor amb}} < 24^{\circ}\text{C}$ or 75.2°F , if $T_{\text{tube}} \leq 40^{\circ}\text{C}$ or 104°F and the indoor fan is at a full stop, the indoor fan will begin to run at low speed with a time lag of 2 minutes. Within 2 minutes, if $T_{\text{tube}} > 40^{\circ}\text{C}$ or 104°F , the indoor fan will also run at low speed and after 1 minute of running at low speed, the indoor fan will be converted to operation at preset speed. Within 1 minute low speed operation or 2 minutes of nonoperation, if $T_{\text{tube}} > 42^{\circ}\text{C}$ or 107.6°F , the fan will run at present speed.

In case of $T_{\text{indoor amb}} \geq 24^{\circ}\text{C}$ or 75.2°F , if $T_{\text{tube}} \leq 42^{\circ}\text{C}$ or 107.6°F , the indoor fan will run at low speed and after 1 minute, the indoor fan will be converted to preset speed. Within 1 minute of low speed operation, if $T_{\text{tube}} > 42^{\circ}\text{C}$ or 107.6°F , the indoor fan will be converted to preset speed.

09k: W=5A; X=6A; Y=7A; Z=8A.

12k: W=6A; X=7A; Y=8A; Z=9A.

(6) Fan Mode

While in fan 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.

While in the fan mode, the temperature can be set within a range of $16\text{--}30^{\circ}\text{C}$ or $68.8\text{--}86^{\circ}\text{F}$.

(7) Auto Mode

When $T_{\text{amb}} \geq 26^{\circ}\text{C}$ or 78.8°F , the unit will run in cooling mode. The implied set temperature is 25°C or 77°F (the set temperature sent to the outdoor unit is 25°C or 77°F).

For heating and cooling the unit, when $T_{\text{amb}} \leq 22^{\circ}\text{C}$ or 71.6°F , it will run in heating mode. The implied set temperature is 20°C or 68°F for only the cooling unit when $T_{\text{amb}} \leq 22^{\circ}\text{C}$ or 71.6°F , it will run in fan mode and the displayed set temperature is 25°C or 77°F .

For heating and cooling the unit, when 22°C or $71.6^{\circ}\text{F} < T_{\text{amb}} \leq 26^{\circ}\text{C}$ or 78.8°F (for cooling only unit, 22°C or $71.6^{\circ}\text{F} < T_{\text{indoor amb}} \geq 26^{\circ}\text{C}$ or 78.8°F), it will keep the original running mode. If the unit is energized for the time, it will run in fan mode.

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

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

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

(8) Common Protection Functions and Fault Display under COOL, HEAT, DRY and AUTO modes:

T tube measured temperature of outdoor heat exchanger under cooling mode and measured temperature of indoor heat exchanger under heating mode.

If T tube $\leq 52^{\circ}\text{C}$ or 125.6°F , the unit will return to its original state.

If T tube $\geq 55^{\circ}\text{C}$ or 131°F , frequency rise is not allowed.

If T tube $\geq 58^{\circ}\text{C}$ or 136.4°F , the compressor will run at reduced frequency.

If T tube $\geq 62^{\circ}\text{C}$ or 143.6°F , the compressor will stop and the indoor fan will run at preset speed.

If T tube $\leq 50^{\circ}\text{C}$ or 122°F , the unit will return to its original operational state.

If T tube $\geq 53^{\circ}\text{C}$ or 127.4°F , frequency rise is not allowed.

If T tube $\geq 56^{\circ}\text{C}$ or 132.8°F , the compressor will run at reduced frequency.

If T tube $\geq 60^{\circ}\text{C}$ or 140°F , the compressor will stop and the indoor fan will blow residual heat and then stop.

If exhaust temperature $\geq 98^{\circ}\text{C}$ or 208.4°F , frequency rise is not allowed.

If exhaust temperature $\geq 103^{\circ}\text{C}$ or 217.4°F , the compressor will run at reduced frequency.

If exhaust temperature $\geq 110^{\circ}\text{C}$ or 230°F , the compressor will stop.

If exhaust temperature $\leq 90^{\circ}\text{C}$ or 194°F , and the compressor has stayed at stop for at least 3 minutes, the compressor will resume its normal operation.

If the unit fails to receive correct signals for a duration of 3 minutes, the communication fault will be justified and the entire system will stop.

In module protection mode, the compressor will stop. When the compressor remains at a stop for at least 3 minutes, the compressor will resume its operation. If module protection occurs 6 times in succession, the compressor will not be started again.

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

When voltage on the DC bus returns to normal value and the compressor has stayed at stop for at least 3 minutes, the compressor will resume its operation.

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

Press the ON/OFF button on the remote to turn unit ON or OFF.

Press MODE on the remote, then select from the following; AUTO, COOL, DRY, FAN, or HEAT.

Each time you press the TEMP+ button or TEMP- button, the set temperature will be set up or down by 1°C or 1.8°F .

Regulating range $16\text{--}30^{\circ}\text{C}$ or $60.8\text{--}86^{\circ}\text{F}$, the button will not function in AUTO mode.

The user can program the start and stop time on the unit according to the setting function on the remote control.

When the initial set temperature is 16-23°C or 60.8-73.4°F, the temperature will rise 1°C or 1.8°F by every hour after sleep function is set, the temperature will not change after rising 3°C or 5.4°F; after running for 7 hours, the temperature will decrease 1°C or 1.8°F and it will not change after that.

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

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

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

Relationship between set temperature and running time:

Initial Temp.	Running time (T)							
O (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	21	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	20

Heating Mode

When the initial set temperature is 16°C or 60.8°F, the unit will keep running at that temperature.

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

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

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

Relationship between set temperature and running time:

Initial Temp.	Running time (T)							
O (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

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 follows:

Heating mode: Auto speed while in heating mode.

When $T_{amb} \leq T_{preset} + 1^{\circ}\text{C}$ or 1.8°F , indoor fan will operate at high speed.

When $T_{preset} + 1^{\circ}\text{C}$ or $1.8^{\circ}\text{F} < T_{amb} < T_{preset} + 3^{\circ}\text{C}$ or 5.4°F , indoor fan will operate at medium speed.

When $T_{amb} \geq T_{preset} + 3^{\circ}\text{C}$ or 5.4°F , indoor fan will operate at low speed.

There should be at least 180 seconds of operation time during switchover of each speed.

Cooling mode: Auto speed while in cooling mode.

When $T_{amb} \geq T_{preset} + 2^{\circ}\text{C}$ or 3.6°F , indoor fan will operate at high speed.

When $T_{preset} < T_{amb} < T_{preset} + 2^{\circ}\text{C}$ or 3.6°F , indoor fan will operate at medium speed.

When $T_{amb} \leq T_{preset}$ indoor fan will operate at low speed.

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

Buzzer control:

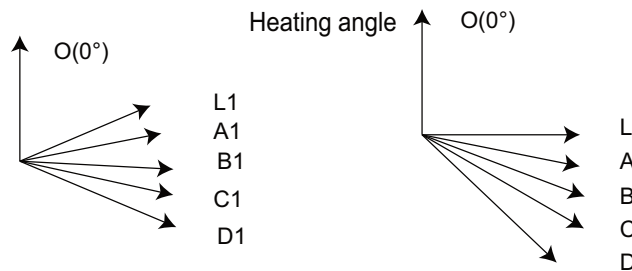
The buzzer will sound when the air conditioner is powered on or when the unit receives information from the remote controller or when there is button input. The single tube cooler doesn't receive the remote control ON signal while in heating mode.

Auto button:

User can turn the remote controller ON/OFF by pressing the power button. If the controller is left off, the system will resume automatic running function.

Up & Down Swinging Control:

Upon power up, the up and down motor will move the deflectors counter-clockwise and then close the air outlet. See diagrams to the right for swing angles in cooling and heating modes.



Operation pattern and mode pattern display:

All display patterns will display for 5 minutes while the power is on. The operation indication pattern will display in red under standby status. Once the unit is started by remote control, the indication pattern will light and display the current operation mode (the mode light includes; cooling, heating and dehumidify modes). Pressing the light button will close all display patterns.

Double 8 display:

According to the different setting of the remote control, the nixie light may display the current temperature (the temperature scope is from $16\text{--}30^{\circ}\text{C}$ or $60.8\text{--}86^{\circ}\text{F}$) and indoor ambient temperature. The set temperature displayed in auto cooling and fan modes is 25°C or 77°F and the set temperature displayed in auto heating mode is 20°C or 68°F . Under heating mode, nixie tube displays H1 or heating indicator is off 5 seconds and blinks for 10 seconds in defrosting. If you set the Fahrenheit temperature display, the nixie light will display according to Fahrenheit temperatures.

F1: Indoor ambient sensor start and short circuit – continuously measured failure in 5 seconds.

F2: Indoor evaporative sensor start and short circuit – continuously measured failure in 5 seconds.

F3: Outdoor ambient sensor start and short circuit - continuously measured failure in 5 seconds.

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

F5: Outdoor exhausting sensor start and short circuit - continuously measured failure in 30 seconds after the compressor operated for 3 minutes.

Drying function:

User may start/stop the drying function while in cooling or dehumidifying mode. (Auto, heating and air supply do not have drying function).

Memory function:

Should there be a power supply interruption, the memory settings will be erased and the unit will power up in its original factory default settings.