GREE

Change for Life

Service Manual

Models: GEH12AA-K3DNA1D
GEH18AA-K3DNA1D
(Refrigerant R410A)

GREE ELECTRIC APPLIANCES,INC.OF ZHUHAI

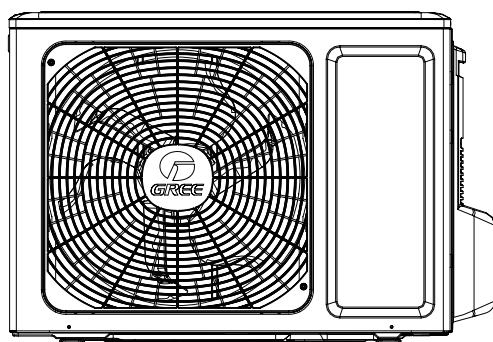# Part Ⅰ : Technical Information

1. Summary

Indoor Unit
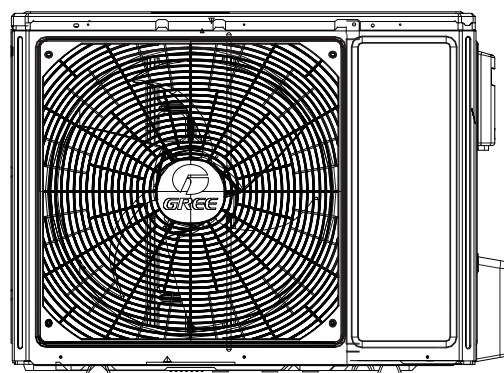
GEH12AA-K3DNA1D/I
GEH18AA-K3DNA1D/I
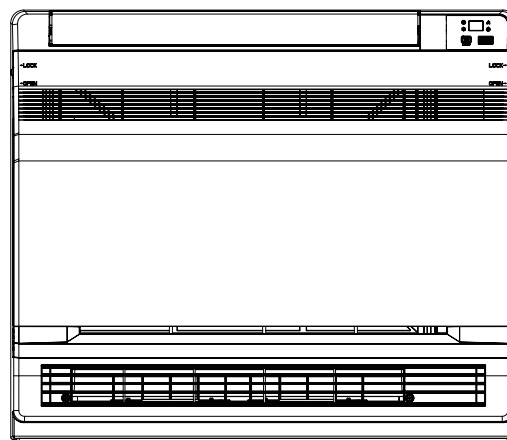
Outdoor Unit

GEH12AA-K3DNA1D/O(LCLH)

GEH18AA-K3DNA1D/O(LCLH)

Remote Controller

YAA1FB8(WiFi)

2. Specifications

2.1 Specification Sheet

Parameter		Unit	Value	
Model			GEH12AA-K3DNA1D	GEH18AA-K3DNA1D
Product Code			CV010002600	CV010002400
Power Supply	Rated Voltage	V ~	220-240	220-240
	Rated Frequency	Hz	50	50
	Phases		1	1
Power Supply Mode			Outdoor	Outdoor
Cooling Capacity(Min~Max)		W	3500	5200
Heating Capacity(Min~Max)		W	3750	5330
Cooling Power Input(Min~Max)		W	1100	1600
Heating Power Input(Min~Max)		W	1000	1500
Cooling Current Input		A	4.85	7.10
Heating Current Input		A	4.33	6.65
Rated Input		W	1600	2500
Rated Current		A	5.9	10.9
Air Flow Volume(SH/H/HM/M/LM/L/SL)		m³/h	600/520/480/440/400/360/280	700/650/580/520/460/410/320
Dehumidifying Volume		L/h	1.2	1.8
EER		W/W	3.18	3.25
COP		W/W	3.75	3.55
SEER		W/W	6.4	6.5
HSPF		W/W	/	/
Application Area		m²	16-24	23-34
Indoor Unit	Indoor Unit Model		GEH12AA-K3DNA1D/I	GEH18AA-K3DNA1D/I
	Indoor Unit Product Code		CV010N02600	CV010N02400
	Fan Type		Centrifugal	Centrifugal
	Fan Diameter Length(DXL)	mm	Φ370X80	Φ370X80
	Cooling Speed (SH/H/HM/M/LM/L/SL)	r/min	750/650/600/550/500/450/350 720/620/570/520/470/420/320	840/800/720/650/580/530/410 810/770/690/620/550/500/380
	Heating Speed (SH/H/HM/M/LM/L/SL)	r/min	750/650/600/550/500/450/350 720/620/570/520/470/420/320	930/840/760/690/620/570/480 850/800/720/650/580/530/470
	Fan Motor Power Output	W	30	30
	Fan Motor RLA	A	0.15	0.15
	Fan Motor Capacitor	µF	/	/
	Evaporator Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Evaporator Pipe Diameter	mm	Φ7	Φ7
	Evaporator Row-fin Gap	mm	2-1.3	2-1.3
	Evaporator Coil Length (LXDXW)	mm	511X400X25.4	511X400X25.4
	Swing Motor Model		MP24EB/MP24AE	MP24EB/MP24AE
	Swing Motor Power Output	W	1.5/1.5	1.5/1.5
	Fuse Current	A	3.15	3.15
	Sound Pressure Level (SS/H/MH/M/ML/L/SL)	dB (A)	42/40/38/36/34/31/25	47/45/42/40/37/35/31
	Sound Power Level (SS/H/MH/M/ML/L/SL)	dB (A)	52/50/48/46/44/41/35	57/55/52/50/47/45/41
	Dimension (WXHXD)	mm	700X215X600	700X215X600
	Dimension of Carton Box (LXWXH)	mm	785X280X682	785X280X682
	Dimension of Package(LXWXH)	mm	788X283X697	788X283X697
	Net Weight	kg	15.5	15.5
	Gross Weight	kg	18.5	18.5

● ● ● ● ● ● ● Technical Information

			GEH12AA-K3DNA1D/O	GEH18AA-K3DNA1D/O
Outdoor Unit	Outdoor Unit Model		GEH12AA-K3DNA1D/O	GEH18AA-K3DNA1D/O
	Outdoor Unit Product Code		CV010W02600	CV010W02400
	Compressor Manufacturer		ZHUHAI LANDA COMPRESSOR CO.,LTD	ZHUHAI LANDA COMPRESSOR CO.,LTD
	Compressor Model		QXA-B102zE190	QXA-B141zF030
	Compressor Oil		RB68EP	68EP
	Compressor Type		Rotary	Rotary
	Compressor LRA.	A	/	18
	Compressor RLA	A	6.6	7.2
	Compressor Power Input	W	1020	1440
	Compressor Overload Protector		1NT11L-6233 or HPC115/95U1 or KSD115ºC	1NT11L-6233 or KSD115ºC or HPC115/95U1
	Throttling Method		Electron expansion valve	Electron expansion valve
	Set Temperature Range	ºC	16~30	16~30
	Cooling Operation Ambient Temperature Range	ºC	-15~43	-15~43
	Heating Operation Ambient Temperature Range	ºC	-22~24	-22~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Condenser Pipe Diameter	mm	Φ7.94	Φ7
	Condenser Rows-fin Gap	mm	2-1.4	2-1.4
	Condenser Coil Length (LXDXW)	mm	710X38.1X508	851X38.1X660
	Fan Motor Speed	rpm	900	800
	Fan Motor Power Output	W	30	60
	Fan Motor RLA	A	0.37	0.39
	Fan Motor Capacitor	μF	/	/
	Outdoor Unit Air Flow Volume	m³/h	1600	3200
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ400	Φ520
	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)	52/-/-	57/-/-
	Sound Power Level (H/M/L)	dB (A)	62/-/-	65/-/-
	Dimension(WXHXD)	mm	782X540X320	963X700X396
	Dimension of Carton Box (LXWXH)	mm	820X355X580	1026X455X735
	Dimension of Package(LXWXH)	mm	823X358X595	1029X458X750
	Net Weight	kg	31.5	46
	Gross Weight	kg	34	50.5
	Refrigerant		R410A	R410A
	Refrigerant Charge	kg	0.95	1.3
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	Φ12
	Max Distance Height	m	10	10
	Max Distance Length	m	20	25
	Note: The connection pipe applies metric diameter.			

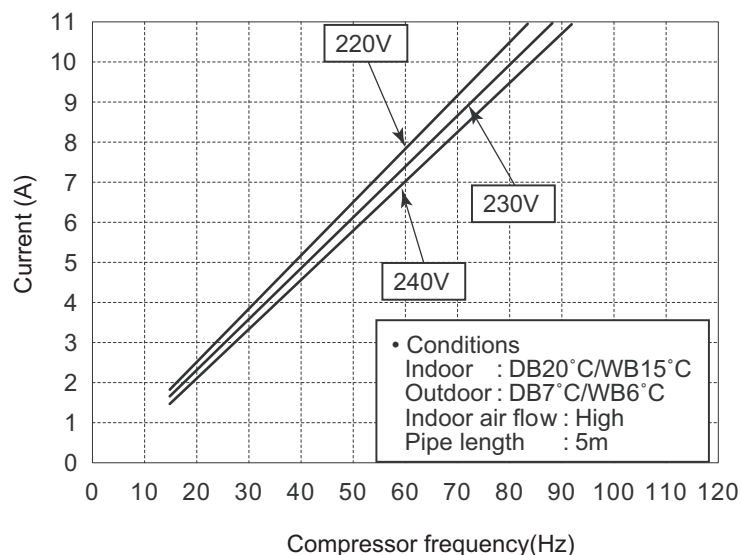The above data is subject to change without notice. Please refer to the nameplate of the unit.
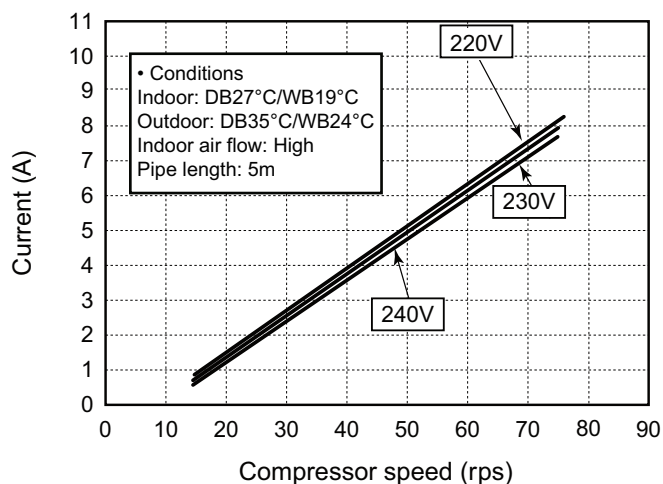
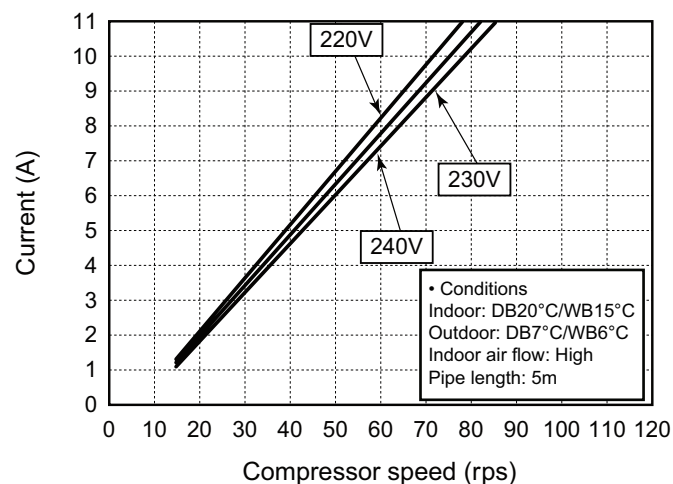# 2.2 Operation Characteristic Curve

12K
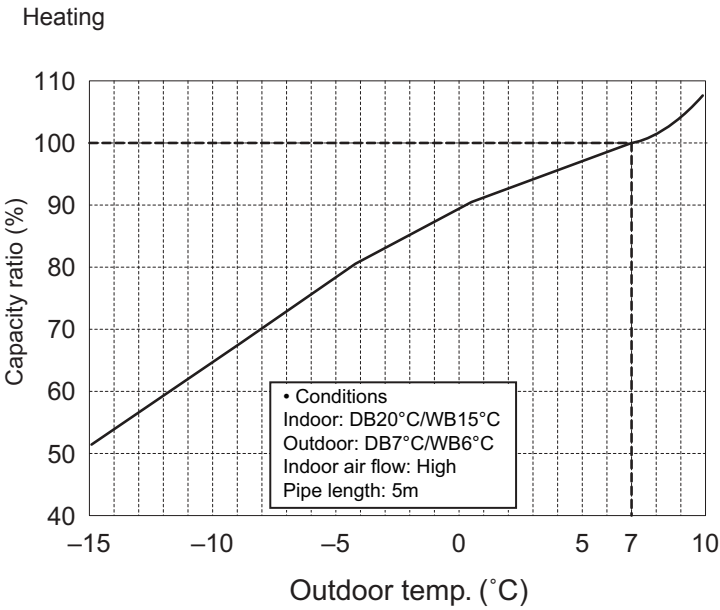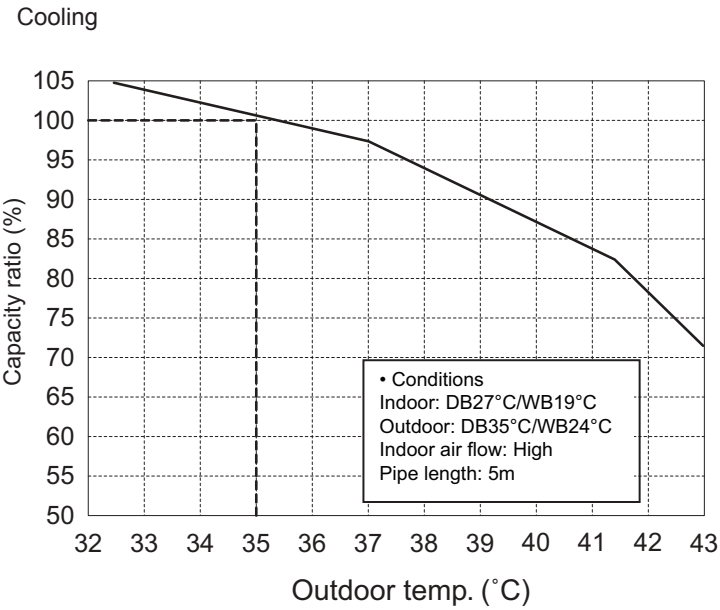
Cooling

Heating

18K

Cooling

Heating

Technical Information
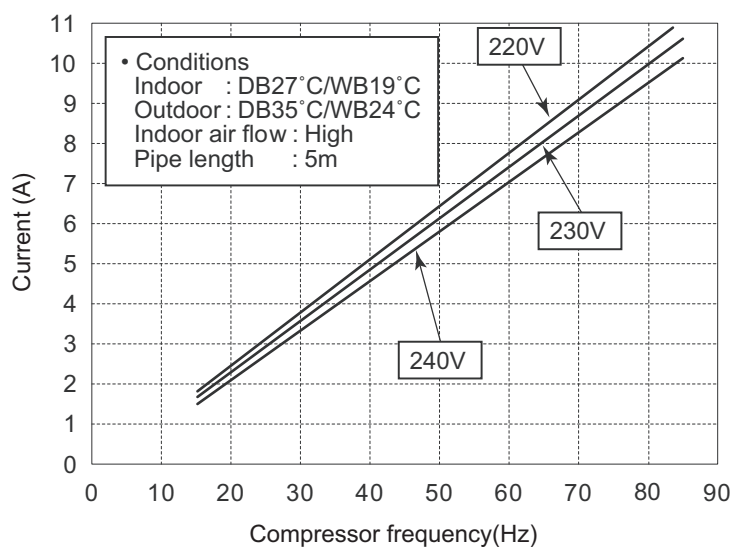
2.3 Capacity Variation Ratio According to Temperature

12K

Cooling

Heating

18K
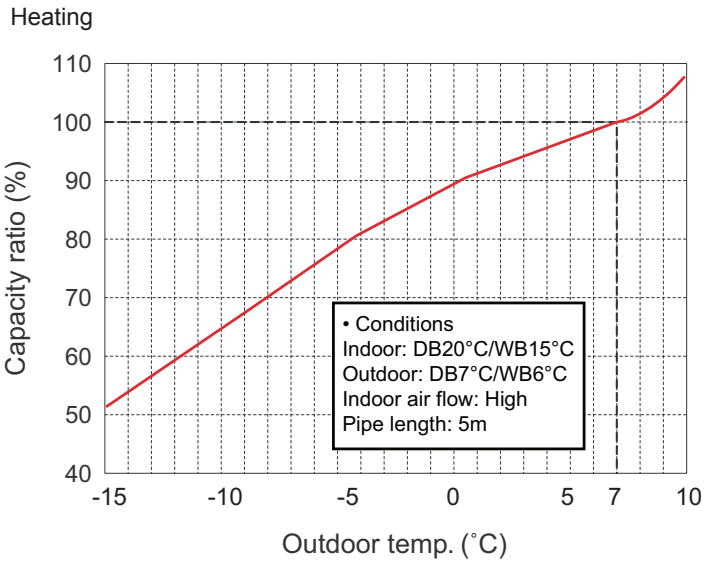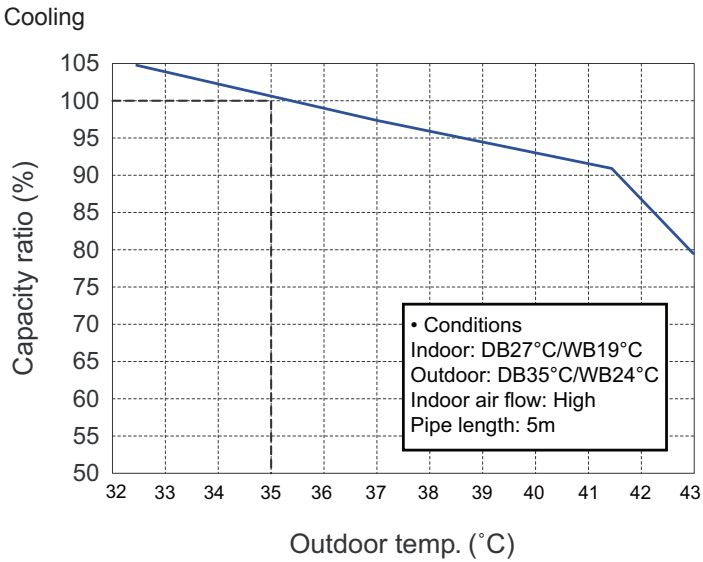
Cooling

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		P (MPa)	T1 (°C)	T2 (°C)			
27/19	35/24	12K	0.9 to 1.1	12 to 14	70 to 40	Super High	High	72
		18K	0.9 to 1.1	12 to 14	80 to 40	Super High	High	70

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		P (MPa)	T1 (°C)	T2 (°C)			
20/-	7/6	12K	2.2 to 2.4	70 to 35	2 to 4	Super High	High	77
		18K	2.2 to 2.4	70 to 40	1 to 5	Super High	High	70

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

12K

Indoor side noise when blowing

Indoor fan motor rotating speed
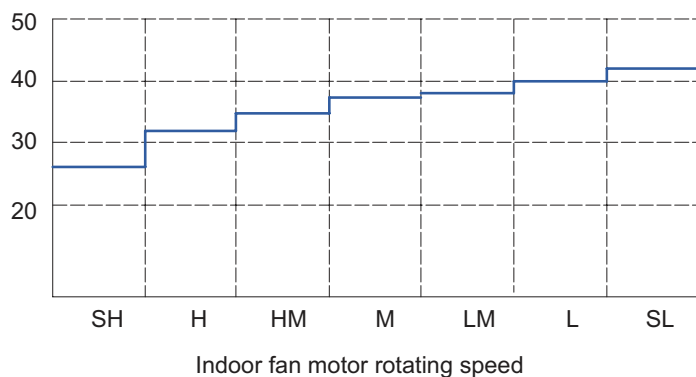
Outdoor side noise when blowing

18K

Indoor side noise when blowing

Indoor fan motor rotating speed

Outdoor side noise when blowing

Technical Information
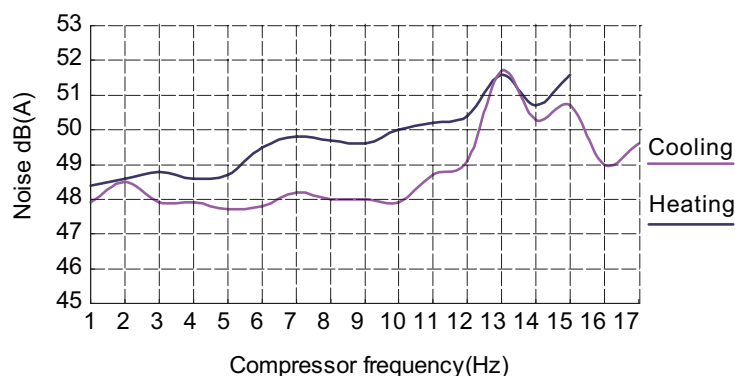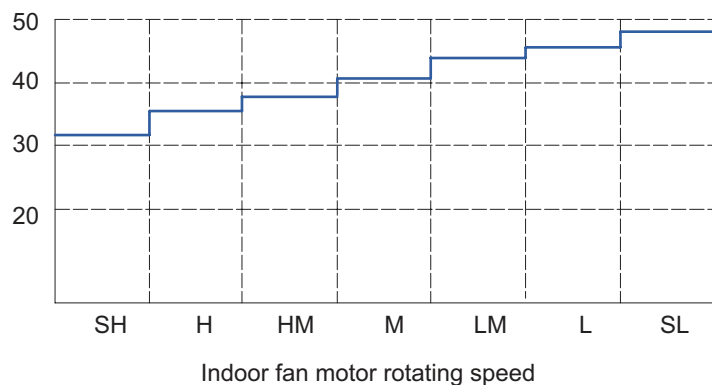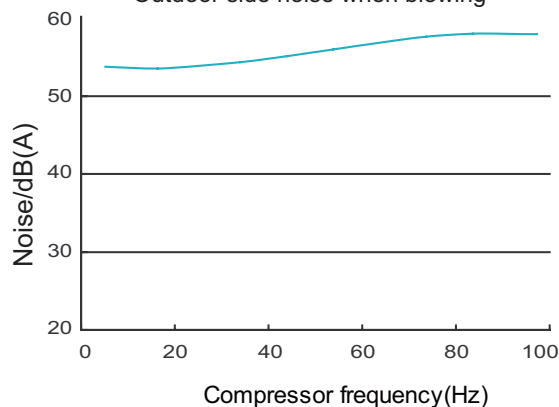
3. Outline Dimension Diagram

3.1 Indoor Unit

Unit:mm

3.2 Outdoor Unit

12K

257

540

320

712

782

286

510

Unit:mm

18K

341

700

396

892

963

368

560

Unit:mm

Technical Information
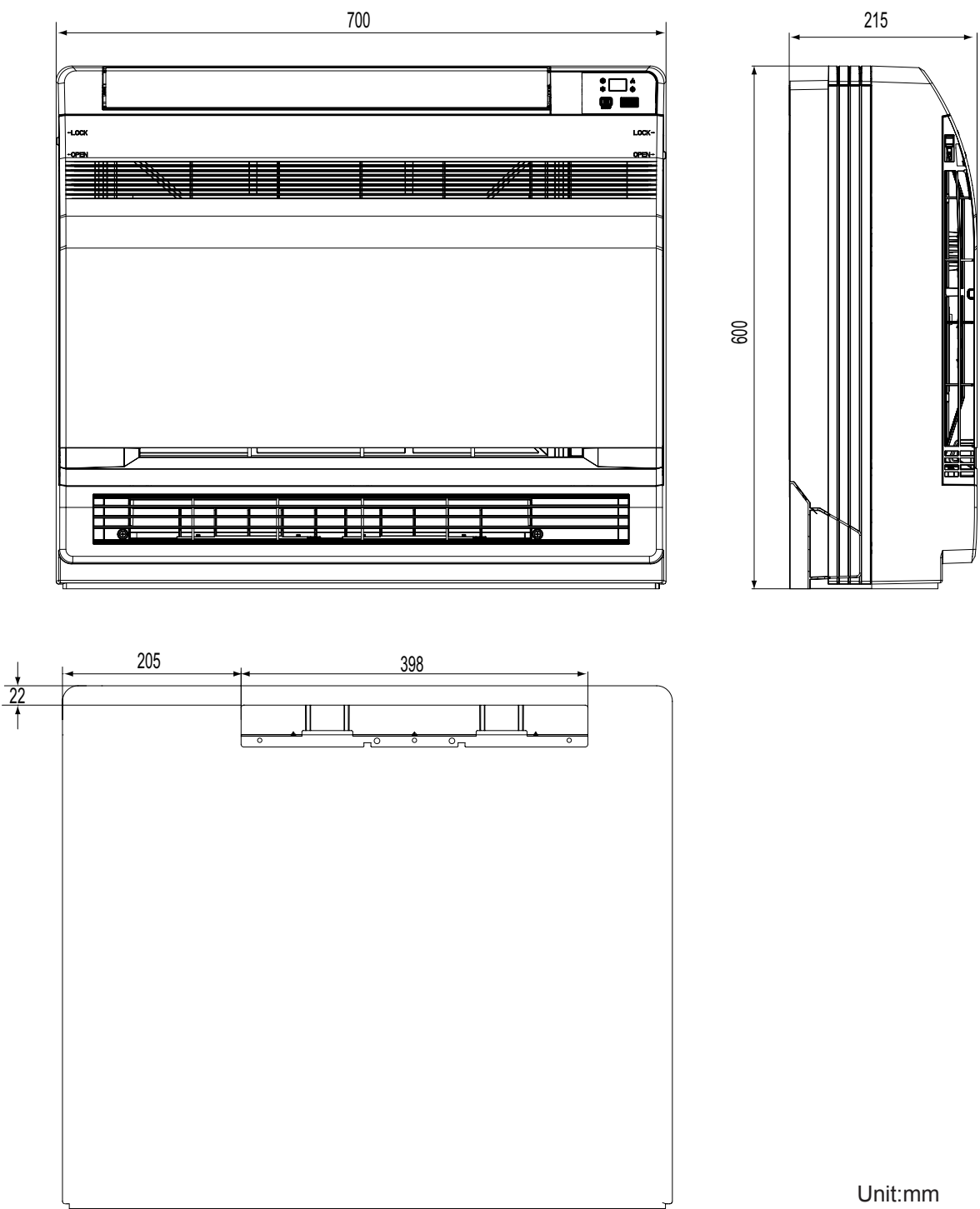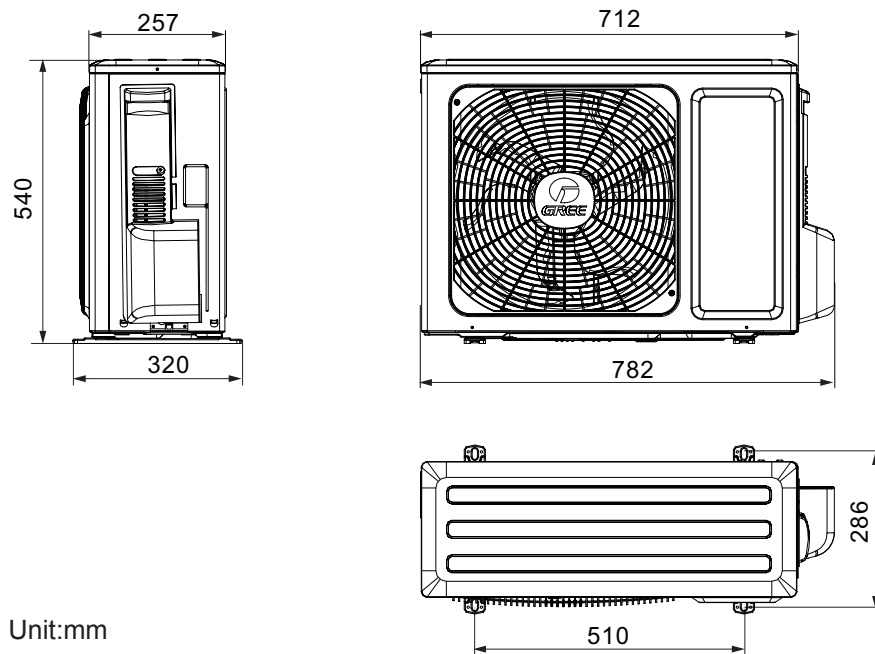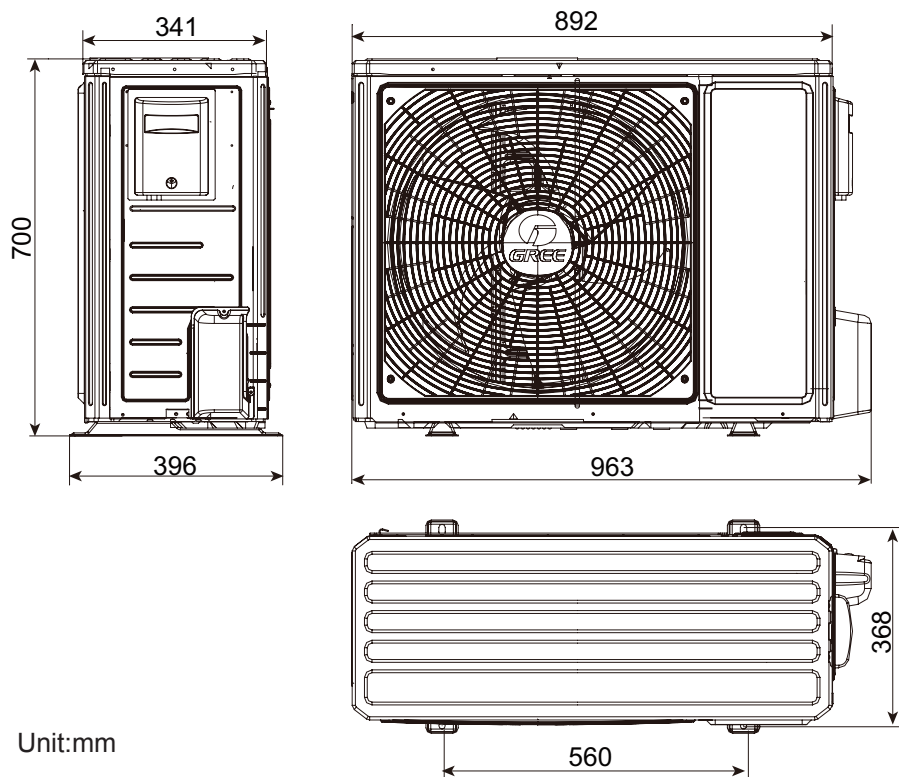
6. Function and Control

6.1 Remote Controller Introduction

Buttons on Remote Controller

1	ON/OFF button
2	+/- button
3	MODE button
4	FAN button
5	SWING button
6	I FEEL button
7	条/仑 button
8	SLEEP button
9	TEMP button
10	QUIET button
11	ClOCK button
12	T-ON / T-OFF button
13	TURBO button
14	WiFi button
15	LIGHT button

Introduction for Icons on Display Screen

I feel
Quiet
Operation mode
Auto mode
Cool mode
Dry mode
Fan mode
Heat mode
Clock
Sleep mode
Light

Set fan speed
Turbo mode
Send signal
Healthy mode
Scavenging functions
8℃ heating function
Set temperature
X-FAN function
Set time
TIMER ON /TIMER OFF
Child lock
Up & down swing
Left & right swing

Temp. display type

仑:Set temp.   仓:Indoor ambient temp.
仑⁰:Outdoor ambient temp.
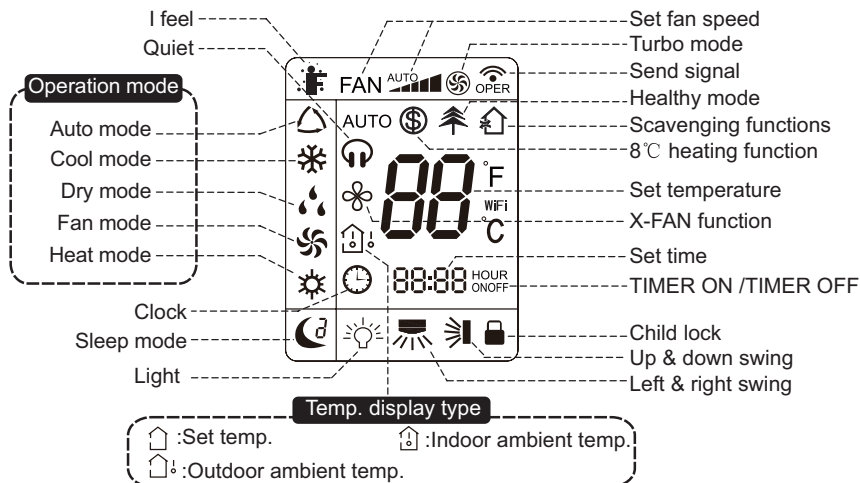
Introduction for Buttons on Remote Controller

Note:

This is a general use remote controller, it could be used for the air conditioners with multifunction; For some function, which the model doesn't have, if press the corresponding button on the remote controller that the unit will keep the original running status.

1 ON/OFF button

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

2 - button

Press this button to decrease set temperature. Holding it down above 2 seconds rapidly decreases set temperature. In AUTO mode, set temperature is not adjustable.

+ button

Press this button to increase set temperature. Holding it down above 2 seconds rapidly increases set temperature. In AUTO mode, set temperature is not adjustable.

③ MODE button

Each time you press this button , a mode is selected in a sequence that goes from AUTO,COOL, DRY, FAN, and HEAT * , as the following:

AUTO ▶ COOL ▶ DRY ▶ FAN ▶ HEAT*

*Note:Only for models with heating function.

After energization, AUTO mode is defaulted. In AUTO mode, the set temperature will not be displayed on the LCD, and the unit will automatically select the suitable operation mode in accordance with the room temperature to make indoor room comfortable.(As for cooling only unit,it won't have any action when it receives the signal of heating operation.)

④ FAN button

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

Auto → ◢ → ◢◢ → ◢◢◣ → ◢◢◢◣ → ◢◢◢◢

◢ Low speed   ◢◢ Low-Medium speed   ◢◢◣ Medium speed

◢◢◢◣ Medium-High speed   ◢◢◢◢ High speed
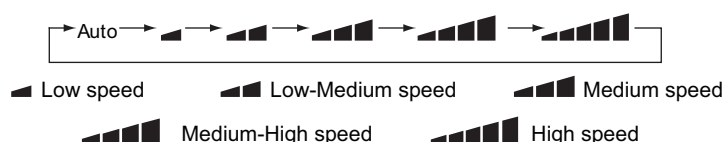
⑤ SWING button

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

This remote controller is universal. If any command is sent out, the unit will carry out the command as indicated. indicates the guide louver swings as:

⑥ I FEEL button

Press this button to turn on I FEEL function. The unit automatically adjust temperature according to the sensed temperature. Press this button again to cancel I FEEL function.

⑦ ☘/🏠 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.

⑧ SLEEP button

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

● Sleep 1 is Sleep mode 1, in Cool mode: after run for one hour in sleep mode, the main unit setting temperature will increase 1℃ , after 2 hours, the setting temperature will increase 2 ℃ , but the maximal setting temperature is 30 ℃ , then the unit will run at this setting temperature all along; In Heat mode: after run for one hour in sleep mode, the setting temperature will decrease 1 ℃ after 2 hours the setting temperature will decrease 2℃ , but the minimal setting temperature is 16℃ , then the unit will run at this setting temperature all along.

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

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

(1) Under Sleep 3 mode, press "Turbo" button for a long time, remote control enters into user individuation sleep setting status, at this time, the time of remote control will display "1hour ",the setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink (The first entering will display according to the initial curve setting value of original factory);

(2) Adjust "+" and "-" button, could change the corresponding setting temperature, after adjusted, press "Trubo "button for confirmation;

(3) At this time, 1hour will be automatically increased at the timer postion on the remote control, (that are "2hours " or "3hours " or "8hours "), the place of setting temperature "88" will display the corresponding temperature of last setting sleep curve and blink;

(4) Repeat the above step (2) ～ (3) operation, until 8hours temperature setting finished,sleep,curve setting finished, at this time, the remote control will resume the original timer display;temperature display will resume to original setting temperature.

Sleep3- the sleep curve setting under Sleep mode by DIY could be inquired:

● The user could accord to sleep curve setting method to inquire the presetting sleep curve,enter into user individuation sleep setting status, but do not change the temperature, press "Turbo" button directly for confirmation.Note: In the above presetting or enquiry procedure,if continuously within10s, there is no button pressed, the sleep curve setting within 10s, there is no button pressed , the sleep curve setting status will be automatically quit and resume to display the original displaying. In the presetting or enquiry procedure, press "ON/OFF" button, "Mode" button, "Timer"button or "Sleep" button, the sleep curve setting or enquiry status will quit similarly.

9 TEMP button

Press this button, you can see indoor set temperature, indoor ambient temperature on indoor unit's display. The setting on remote controller is selected circularly as below:
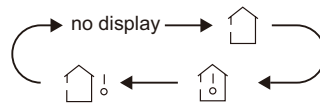
When selecting " ⌂ " with remote controller or no display, temperature indicator on indoor unit displays set temperature; When selecting " ⌂ " with remote controller, temperature indicator on indoor unit displays indoor ambie nt temperature; 5s later or within 5s it receives other remote control signal that will return to display the setting temperature.

Caution:

● This model hasn't outdoor ambient temperature display function. While remote controller
can operate "⌂" and indoor unit displays set temperature.

● It's defaulted to display set temperature when turning on the unit.

● Only for the models with temperature indicator on indoor unit.

10 QUIET button

Press this button, the Quiet status is under the Auto Quiet mode (display " ⌒ᴬᵘᵗᵒ "signal)and Quiet mode (display " ⌒ " singal) and Quiet OFF (there is no signal of " ⌒ "displayed),after powered on, the Quiet OFF is defaulted. Note: the Quiet function cannot be set up in Fan and Dry mode;Under the Quiet mode (Display" ⌒ " Under the Quiet mode) the fan speed is not available.

11 ClOCK button

Press CLOCK button,blinking. 🕒Within 5 seconds, pressing + or - button adjusts the present time. Holding down either button above 2 seconds increases or decreases the time by 1 minute every 0.5 second and then by 10 minutes every 0.5 second. During blinking after setting, press CLOCK button again to confirm the setting, and 🕒 then will be constantly displayed.

12 T-ON / T-OFF button

Press T-ON button to initiate the auto-ON timer. To cancel the auto-timer program, simply press this button again.

After press of this button, 🕒 disappears and "ON "blink s . 00:00 is displayed for ON time setting. Within 5 seconds, press + or - button to adjust the time value. Every press of either button changes the time setting by 1 minute. Holding down either button rapidly changes the time setting by 1 minute and then 10 minutes. Within 5 Seconds after setting, press TIMER ON button to confirm.

Press T-OFF button to initiate the auto-off timer. To cancel the auto-timer program, simply press the button again.TIMER OFF setting is the same as TIMER ON.

13 TURBO button

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

14 WiFi button

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

15 LIGHT button

Press LIGHT button to turn on the display's light and press this button again to turn off the display 's light. If the light is turned on ¡*☀*¡is displayed. If the light is turned off, *☀* disappears.

Combination of "+" and "-" buttons: About lock

Press "+" and "-" buttons simultaneously to lock or unlock the keypad. If the remote controller is locked,🔒is displayed. In this case, pressing any button, 🔒blinks three times.

Combination of "MODE" and "-" buttons:About switch between Fahrenheit and centigrade

At unit OFF, press "MODE" and "-" buttons simultaneously to switch between °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 "⑤" and a selected temperature of "8°C".(46°F if Fahrenheit is adopted). Repeat the operation to quit the function.

About Back-lighting Function

The unit lights for 4s when energizing for the first time, and 3s for later press.

Replacement of Batteries in Remote Controller

1.Press the back side of remote controller marked with" ☰ₒₚₑₙ "as shown in the fig, and then push out the cover of battery box along the arrow direction.

2. Replace two 7# (AAA 1.5V) dry batteries, and make sure the position of "+" polar and "-" polar are correct.

3. Reinstall the cover of battery box.

Note:
● During operation, point the remote control signal sender at the receiving window on indoor unit.
● The distance between signal sender and receiving window should be no more than 8m, and there should be no obstacles between them.
● Signal may be interfered easily in the room where there is fluorescent lamp or wireless telephone; remote controller should be close to indoor unit during operation.
● Replace new batteries of the same model when replacement is required.
● When you don't use remote controller for a long time, please take out the batteries.
● If the display on remote controller is fuzzy or there's no display, please replace batteries.

battery

reinstall

remove

Cover of battery box
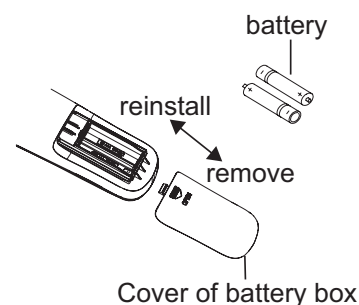
6.2 Operation of Smart Control (Smart Phone, Tablet PC)

Operation Instructions

Download and install APP

Scan the following QR code (also indicated on the package) 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

Configuration

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

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

Step 1: Air conditioner wifi is set to 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 condtioner mac address. Password is 12345678.

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

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

Step 1: Under short-distance control, return to the homepage "Home Control". Click ➕ at the top right corner and select "Add device" to enter the page "Configure".

Step 2: Click "Manual configuration". Input router's name, password and encryption type.
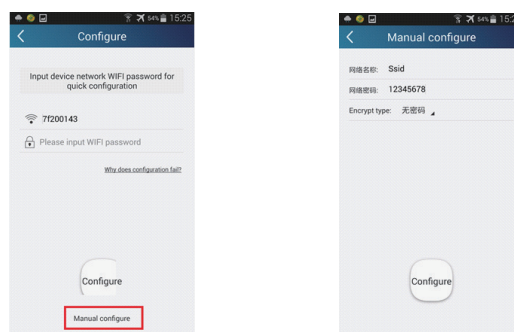
If configuration succeeds, APP will notify user that configuration is successful and displays its homepage. If configuration fails, APP will notify user that configuation failes. In this case, please repeat the above steps until the APP shows that configuration is successful.

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 input email address and password on the "Login Page" to log in. If password is forgotton, you can reset the password.

Operation steps:

(1) Login with username: Slide the "Home control" page and enter the "Menu" page on the left. Click "Login" to enter the page "Login username". New user must first register a username. Click "Register username".
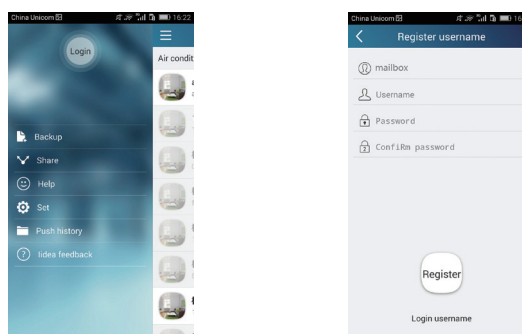
(2) Input email address and click "Get the verification code". Wait until you receive the verification code. Input the code and click "OK" to log in. Username will appear,as 3 in the picture.
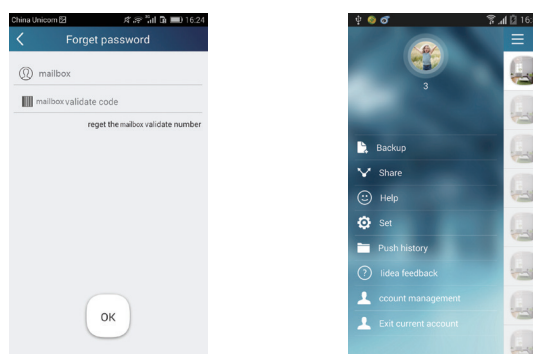
(3) If password is forgotten, you can reset the password with your phone number.Click "Forget password" and enter the page "Forget password". Click "Verification code" to get the email verfication code. Input a new password and click "OK" to login.
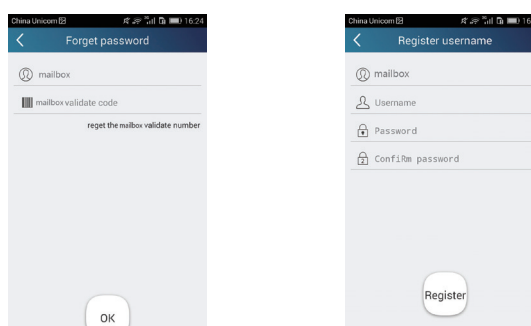
2.Personal setting

Purpose: Set name (device name, preset name, etc.) and image (device image) for the convenience of user identification.

(1) Set device name

After quick configuration, a list of controllable smart devices will be generated.
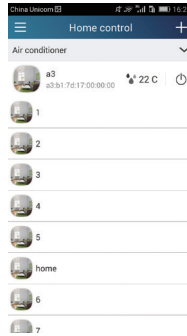
Step 1: Click and hold "a3" to enter the page "Edit device". Click "Image" to select the source of image. Select from "Default images" or "Take a picture" or "Picture gallery" and save an image.
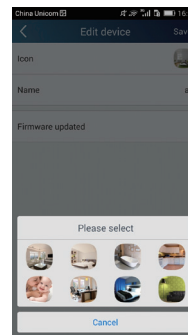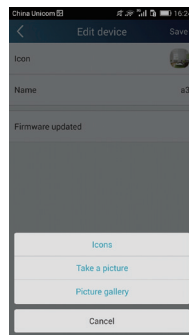
Step 2: Click "Name" to change device name. As shown in the picture, device name is changed to "baby home". Save it and the new device name will be shown.
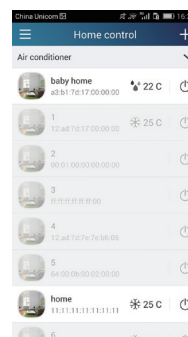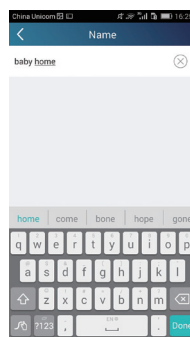
(2) Set preset name

Step 1: Click at the top right corner of the homepage "Home control". Select "Add preset" and enter the page "Preset edit".
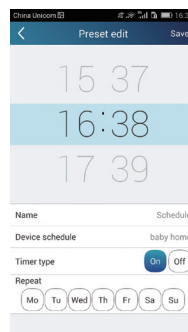
Step 2: Choose the time. Click "Name" to edit it. As shown in the picture, it is edited to "baby room". For timer type, select On. Then select the repeat days. Save the
setting of preset name.
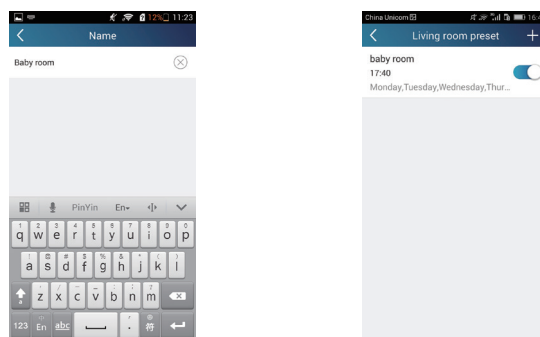
(3) Set device image

Please refer to the steps as instructed 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, heath, light, sleep, energy saving lower limit).

Step 1: General control Enter the homepage "Home control" first. Take "baby home"as an example.
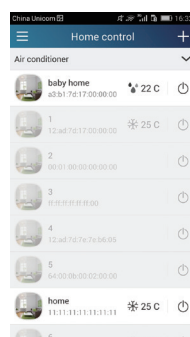
Click "Baby home" and enter the air conditioner control page. Click 🔘 to turn on the control switch.
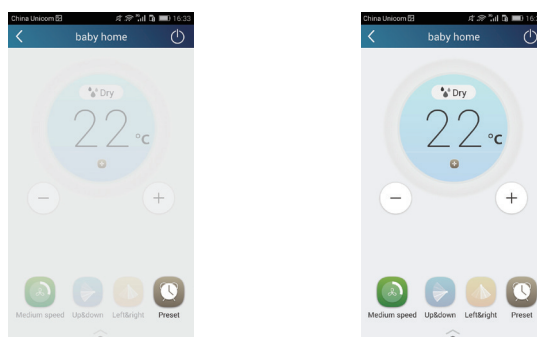
Click ➕ or ➖ to increase or decrease temperature. Click 💧Dry to adjust working mode. Click ∨ to save the mode. Click 🟢 Medium speed to enter the page of fan speed adjustment.
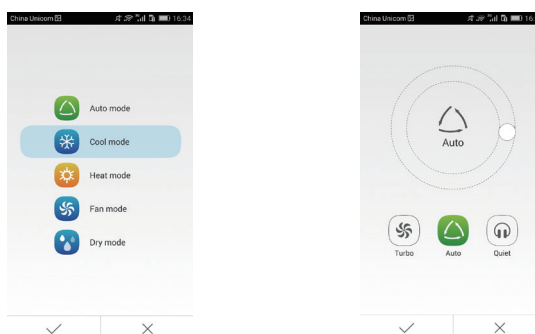
Click 🔘 Auto and go around the circle to select fan speed. Then click √ to save the selection.
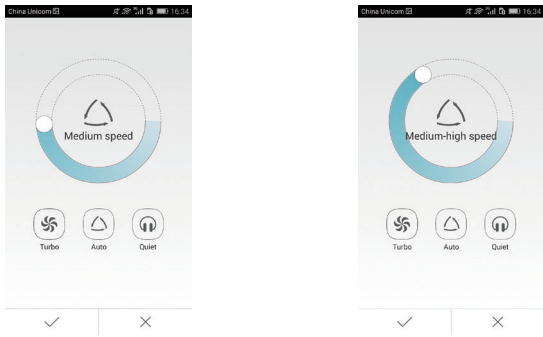
Step 2: Advanced settings Click [⌃] to enter advanced settings. You may select "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving/upper limit".
(2) Advanced control functions: Set scene; Preset; Link; Infrared control (limited to the smart phone with infrared emitter)
Set scene: Preset the operation of several devices by one click On the page "Home control", click the image of "Home control" to enter the page "Edit scene".
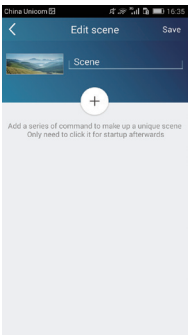
Click "Add scene" and edit the scene name, for example, "back home". Add execution devices.
Click [+] to add commands. On the page "Select device", select the air conditioner "home". Then select "ON" or "OFF".
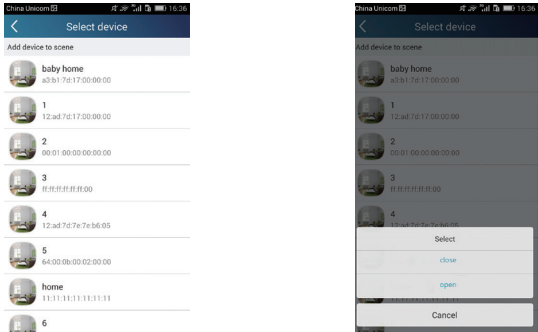
Continue to select the next execution device as instructed above. Click [0.5s] to set the interval.
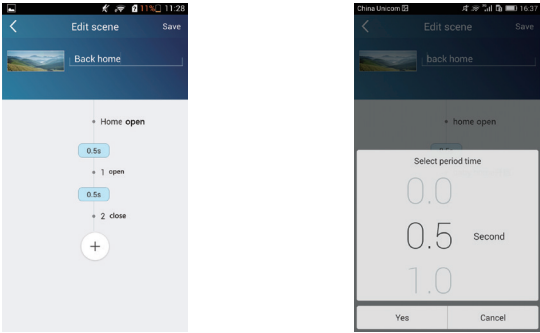
Save it and the scene "back home" will be executed. You may also view the execution condition of the scene.
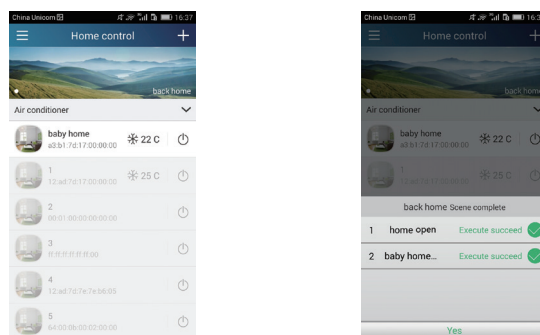
(3) Preset includes single-device preset and multi-device preset Single-device preset: This can preset a certain device to execute On/Off at a specific time.
On the homepage "Home control", take air conditioner "baby home" as an example.

Click the bottom icon on the page "baby room" to enter the page "Preset edit".
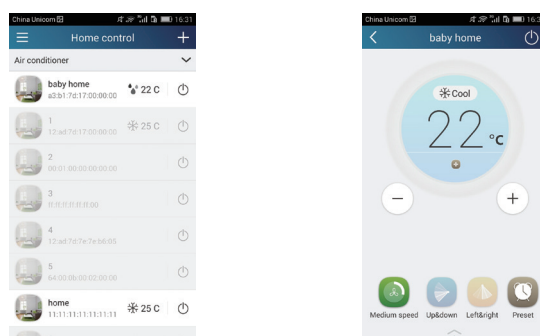
Slide up and down to set the time. If you want to synchronize the time, choose "Synchronize".
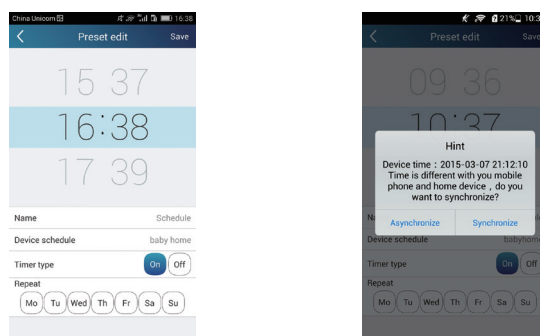
Click "Name" to define the preset name.
Preset device defaults to "baby home". Select "On" as the timer type. Select "Repeat" days to complete the preset.
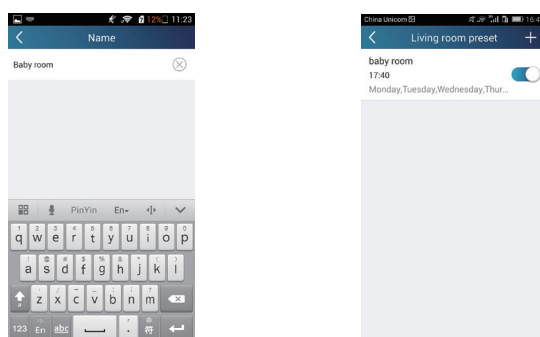
Multi-device preset: This can preset multiple devices to execute at a specified time Please refer to the instructions as how to set preset time, name, timer type and repeat days of a single device.

On the page "Select device", select one or more devices to preset multiple devices.Then return to the page "Home control".
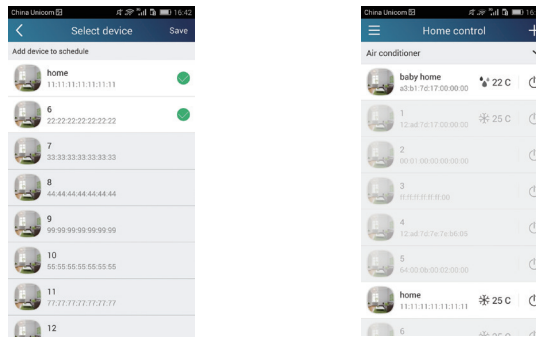
(4) Link(This function is applicable to partial of models)

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

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

Click + at the top right corner of the homepage "Home control". Select "Link" and enter the page "Add linkage". Select "Device parameter" to enter the page "Select device". Take "baby home" as an example. Select "baby home".
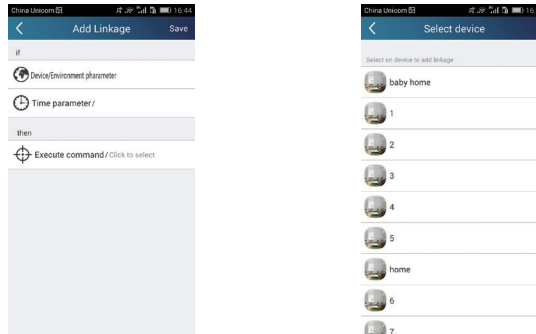
Enter the page "Select environment parameter".
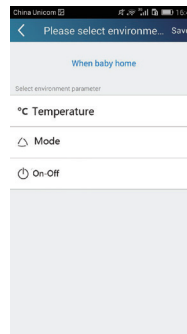
Select "Temperature" to enter the page "Select temp parameter". Slide up and down to adjust temperature. Then select "upper limit" or "lower limit".Click "Mode" and "On-Off" to select the status of master device. Then save the data.
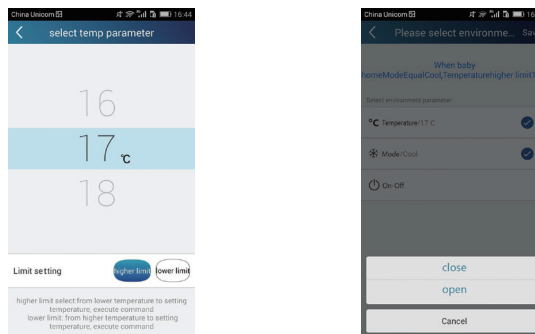
Step 2: Set linkage time parameter. Click "Time parameter" to enter the page "Set time". Slide ⬤ right to turn on the setting time.
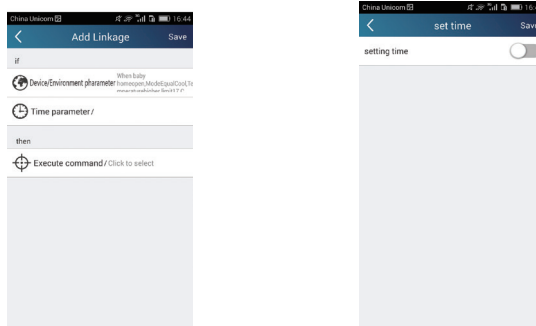
Click "Execution time" to select the start time and stop time. Then click "OK" to save the data.
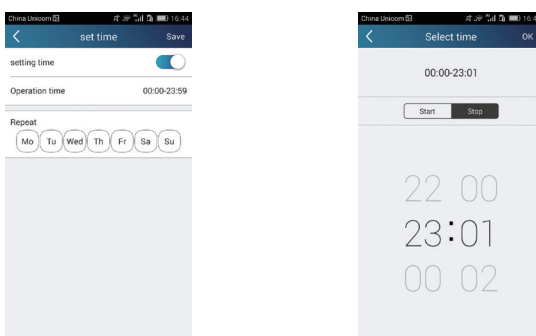
Click the days below "Repeat". Select repeat days and save the data.
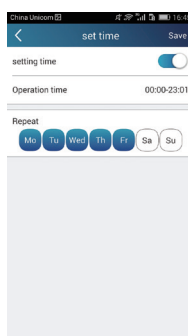
Step 3: Select "Execute command"
Select "Execute command" and enter the page "Select device".
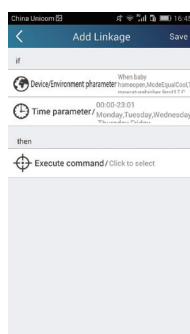
Click the name of device that needs to be controlled. Select "ON" or "OFF" and then save the data to complete the linakge.
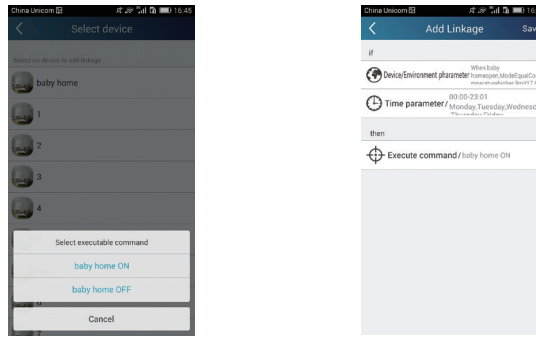
Click "Save". Repeat the above steps to set linkage for several scenes.
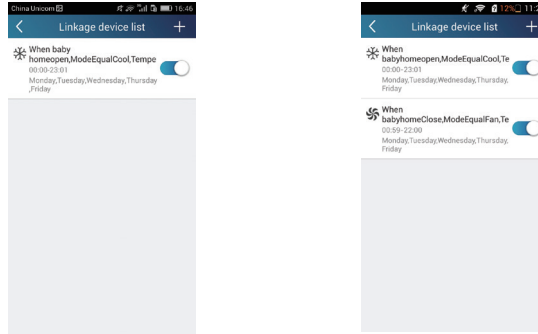
(5) Infrared control (limited to the smart phone with infrared emitter)
Function: Smart phone can be used like a remote controller.

Click ➕ at the top right corner of the homepage "Home control". Select "Infrared" and enter the page "Remote controller". Click and slide up to enter the page of advanced functions.
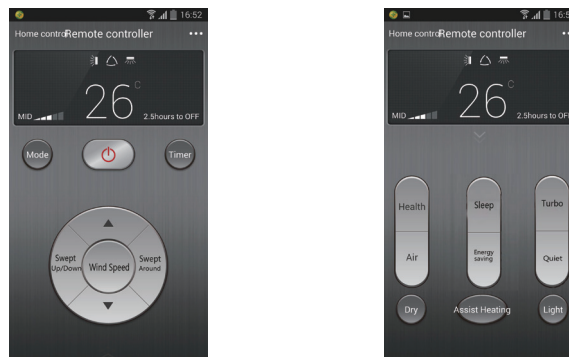
Click to turn on the device. Click Mode to select mode. Click to adjust fan speed, etc. Click "Health", "Energy saving", "Sleep", etc. to set advanced functions.
Click "Sleep" to enter the page "Sleep", on which "Traditional sleep", "Expert sleep","DIY sleep" can be selected. For example, click "DIY sleep". Then click the left and right arrows to select sleep time and up and down arrows to adjust temperature at a specified sleep time.

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4.Menu functions

Menu functions (Share, Set, History, Feedback)

functions.

(1) Share: To share quick configuration information and unit's information, including local export and local import. For local import, you just need to select "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 click "Share" to enter the page "Share". Select "Local export".
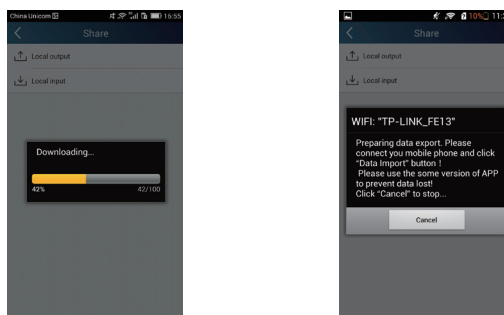
Step 2: Export to another smart phone.

Select 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 "Menu" on the left side and click "Backup".
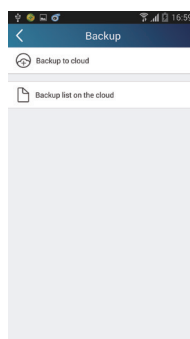
Select "Backup to cloud" and then "Yes". Wait for the data compressing.
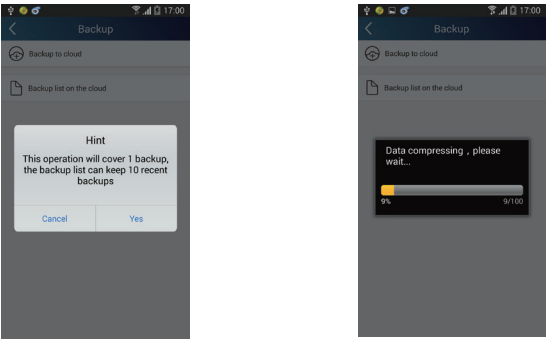
Select "Backup list on the cloud". Then backup records will appear. Click "Record"to download data and recover data to local unit.
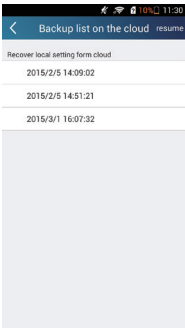
(3) Set

User can set click vibration, message alerts, gesture password (usable only after registration), etc.
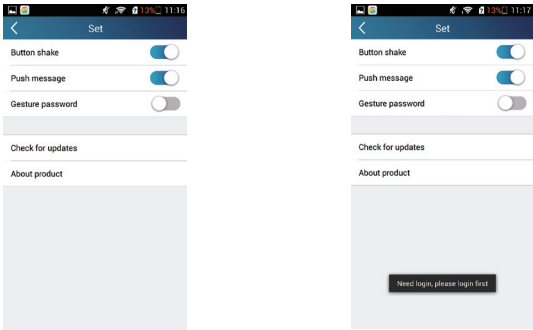
(4) Feedback

User may feedback suggestions to back-stage management for maintenance and development.
Click "Feedback". Input your suggestions and submit it.
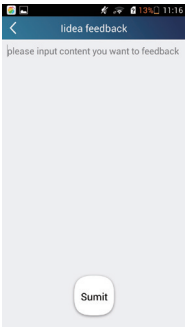
6.3 Operation of Smart Control (Smart Phone, Tablet PC) For Gree

Operation Instructions

Download and install APP
Scan the following QR code (also indicated on package box) 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

Configuration

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

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

Step 1: Air conditioner wifi is set to 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 condtioner mac address. Password is 12345678.

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

2.Short-distance and long-distance control setting for air conditioner connecting

Step 1: Under short-distance control, return to the homepage "Device". 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: Enter the correct network name and password, select the encrypt mode ""wpa2" and select the server,then tap the button "Add device" for configuration. If configuration succeeds, App will notify user that configuration is successful and return to homepage.

Please note:

Please select the encrypt mode "empty" if your wifi has been set without password.
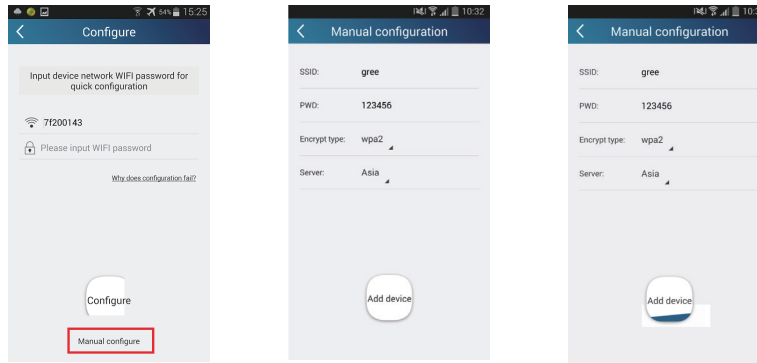

Functions introduction

1.User registration

Purpose: To realize long-distance control

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

Operation steps:

(1) 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".
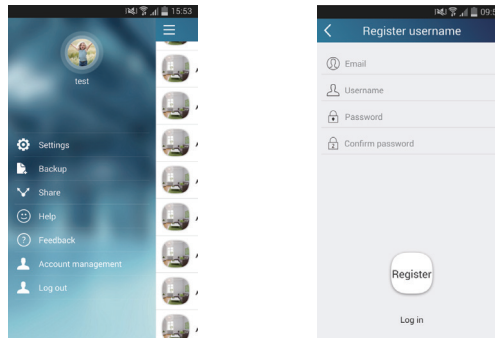
(2) Enter your email address and tap "Get verification code". Wait until you receive the verification code. Enter the code and then tap "OK" to log in. Username will appear. As shown here, the username is "test".
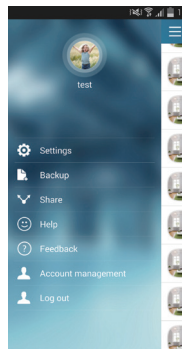
(3) If password is forgotten, you can reset the password with your email address.

Tap "Forgot password" and enter the page "Forgot password". Tap "Verification code" to get a email verification code. Enter a new password and tap "OK" to log in.
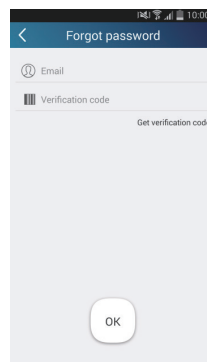
2.Personal setting

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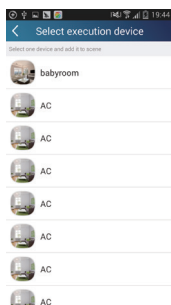
Step 1: Tap and hold "babyroom" to enter the page "Edit device". Tap "Image" to select the source of image. Select from "Default images" or "Take photo" or "Choose from photos" and save an image.
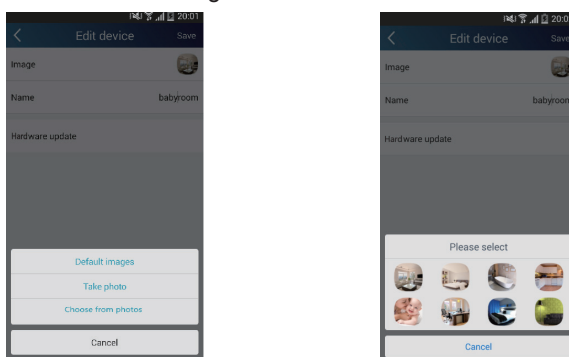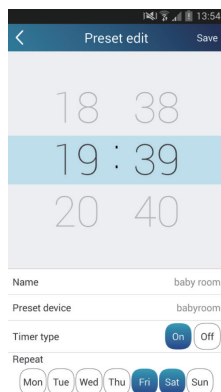

Step 2: Tap "Name" to change device name,enable button "Lock device" to lock the device. Save it and the new device name will be shown.
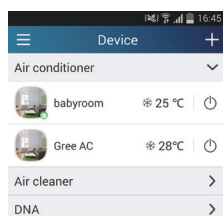
(2) Set preset name

Step 1: Tap ➕ at the top right corner of the homepage "Home control". 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.

Technical Information
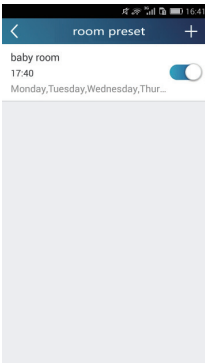
(3) Set device image

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 "baby home" as an example.
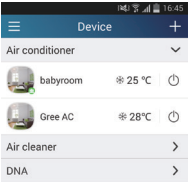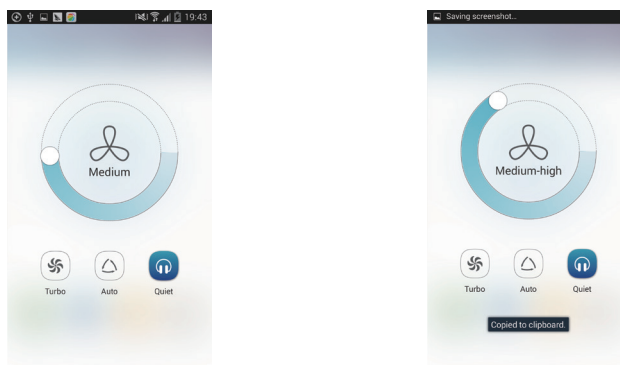

Tap "babyroom" and enter the page of air conditioner control. Tap [⏻] to turn on the control switch.
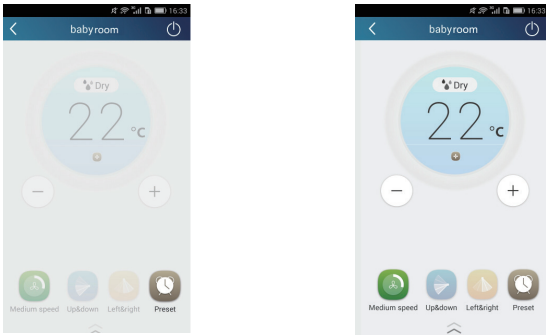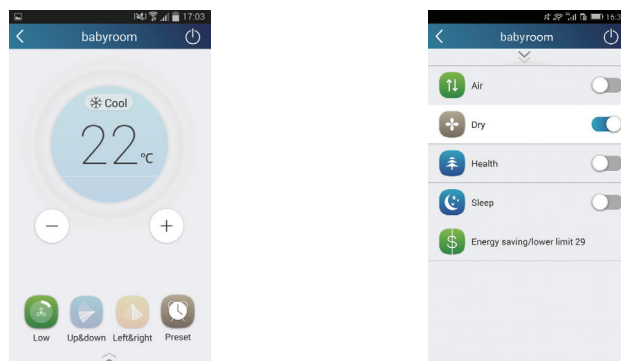

Tap [+] or [−] to increase or decrease temperature. Tap [Dry] to change working mode. Tap [⊙ Medium speed] to enter the page of fan speed adjustment.
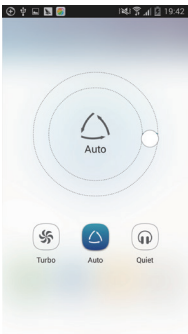
Tap [△ Auto] and go around the circle to adjust fan speed.

Step 2: Advanced settings Tap [^^] to enter advanced settings. You mayselect "Air", "Dry", "Health", "Light", "Sleep" or "Energy saving".


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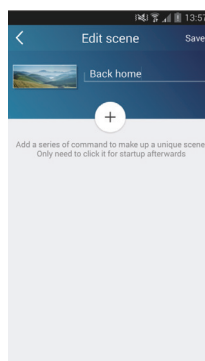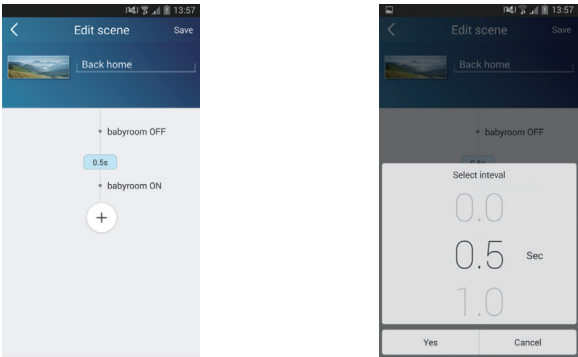

Tap "Add scene" and edit the scene name, for example, "Back home". Add execution devices.
Tap [+] to add commands. On the page "Select execution device", select the air conditioner named "babyroom". Then select "ON" or "OFF".

Technical Information
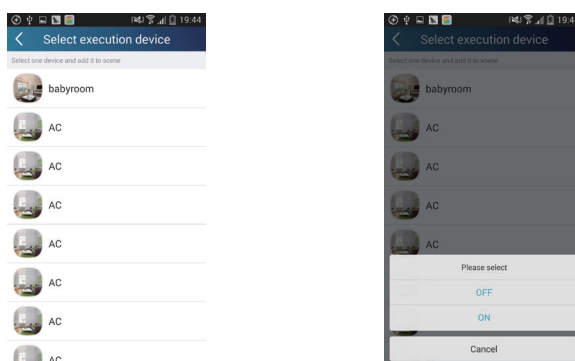
Continue to select the next execution device as instructed above. Tap [0.5s] to set the interval.

Tap "Save". Tap the scene picture displaye d in "Home control" home page to send the command. Then the scene "Back home" will be in execution. You may view the execution condition of the scene.
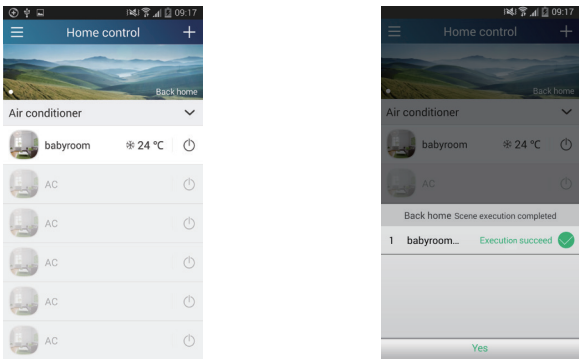
(3) Preset includes single-device preset and multi-device preset Single-device preset: This can preset a certain device to be On/Off at a specific time.
On the homepage "Device", take air conditioner "babyroom" as an example.
Tap [ ] at the bottom of the page "babyroom". Then you will enter the page "Preset edit".
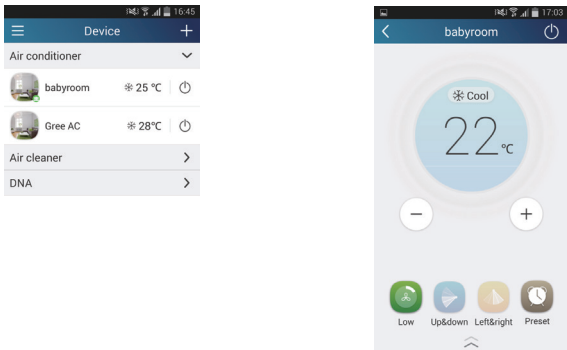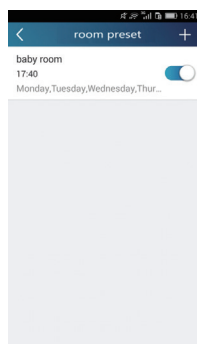
Slide up and down to set the time. If you need to synchronize the time, tap " synchronize".
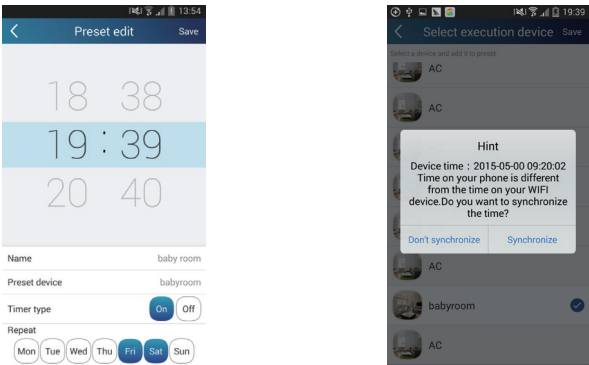
Tap "Name" to customize the preset name.
Preset device can't be selected and it will default to "babyroom". Select "On" for the timer type. Select repeating days to complete the preset.

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".
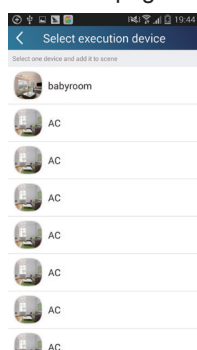
(4) Link(only for the mode with this function)
Select a master device. When the environment has satisfied the parameters as set in the master device, slave devices will execute commands to realize devices linkage.
Step 1: Set the parameters of master device (Select master device, select environment parameters, select master device status).
Tap [+] at the top right corner of the homepage "Device". Select "Link" and enter the page "Add linkage". Tap "Device parameter" to enter the page "Select device". Take "baby room" as an example. Tap "babyroom".
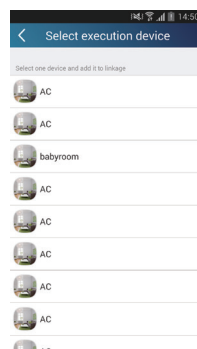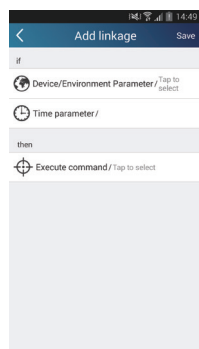
Enter the page "Select environment parameters".
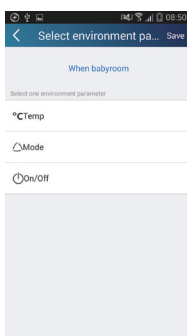
Tap "Temperature" to enter the page "Select temperature parameter". Slide up or down to adjust temperature. Tap "Upper limit" or "Lower limit".
Tap "Mode" and "On/Off" to select the status of master device. Then tap "Save".
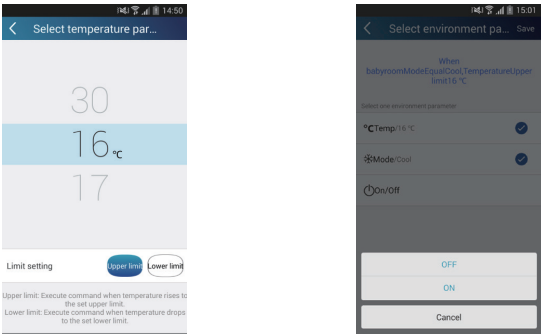

Step 2: Set time parameter for linkage. Tap "Time parameter" to enter the page "Set time". Slide ⬤ rightwards to turn on the setting time.
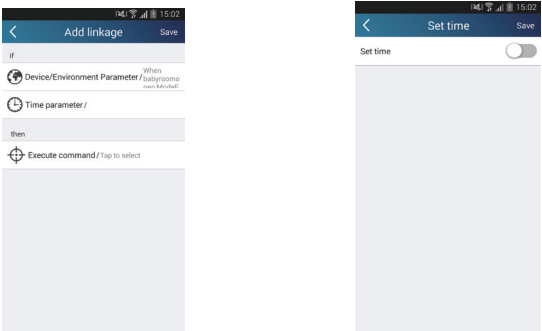
Tap "Execution time"; Then tap "Start" and "Stop" to set start time and stop time respectively. Tap "OK" at the top right corner to save the setting.
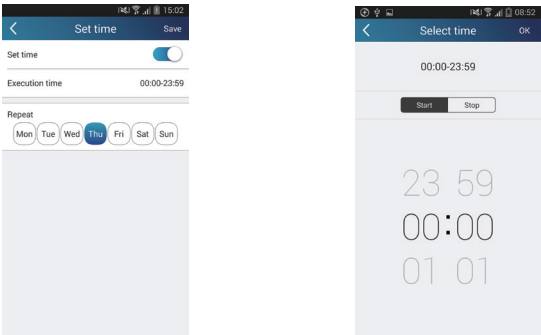
Tap the days below "Repeat" to select the repeating days. Then tap "Save".
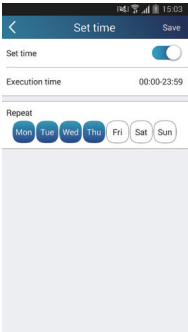
Step 3: Select "Execute command"
Tap "Execute command" and enter the page "Select device".
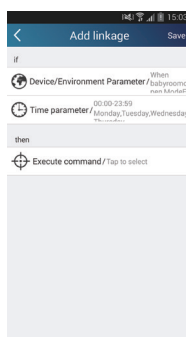
Tap the name of device that you want to control. Tap "ON" or "OFF" and then tap "Save" to complete the linkage.
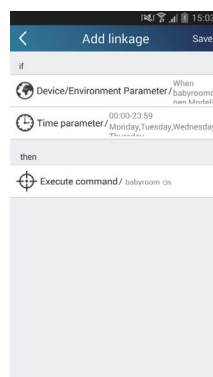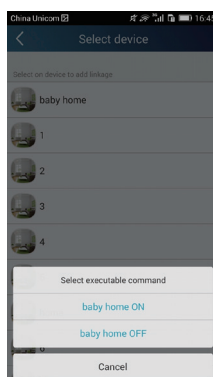
Tap "Save" and then repeat the above steps to set linkage of several scenes.
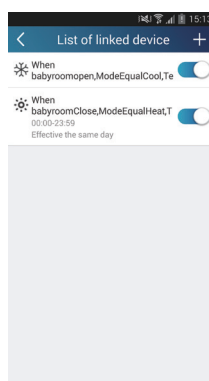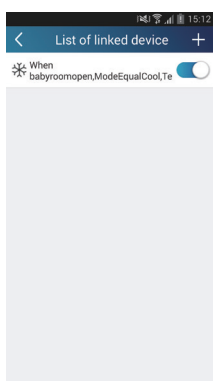
(5) Infrared control (only applicable to smart phone with infrared emitter).
Function: Smart phone can be used as a r emote controller.
Tap ➕ at the top right corner of the homepage "Home control". Select "Infrared" and enter the page "Remote controller". Tap and slide up to enter the page of advanced functions.

Technical Information
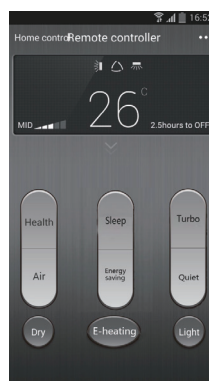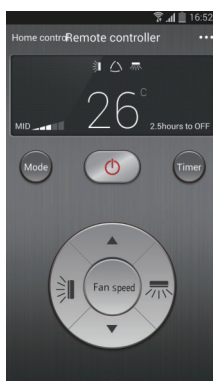
Tap to turn on the device. Tap to select mode. Tap to adjust fan speed . Tap "Health", "Energy saving", "Sleep" etc. to setadvanced functions.

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.
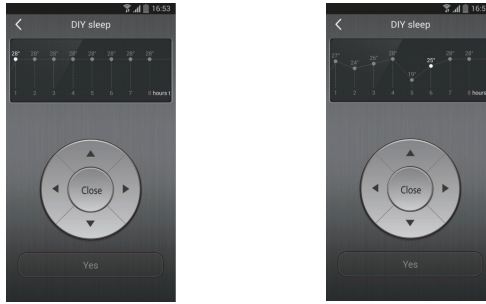
4.Menu functions

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".
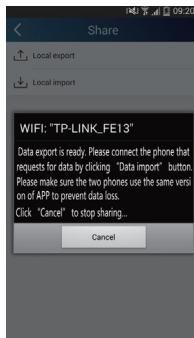
Step 2: Another smart phone to be imported.

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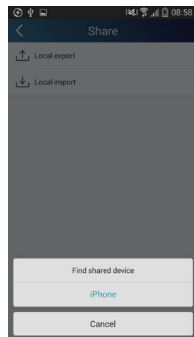
(2) Backup: To keep backup of the quick configuration information and unit's information, including backup to cloud and backup list on the cloud.

Backup to cloud

Enter the "Menu" on the left and tap "Backup".
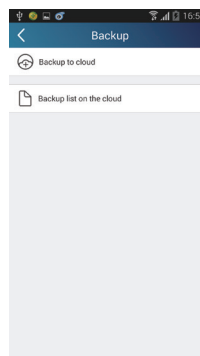
Tap "Backup to cloud" and then tap "Yes". Then wait for the data download.
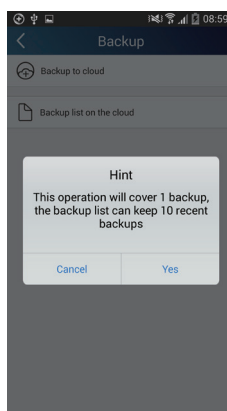
Select "Backup list on the cloud". Then backup records will appear. Tap "Record" to download data and recover data to local unit.
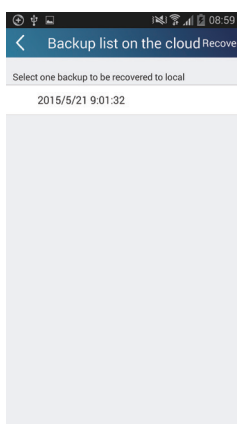
(3) Settings

User can set vibration, message alerts, gesture password (usable only after registration), etc.
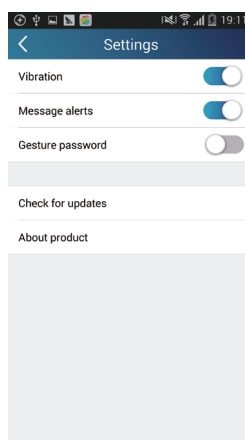
(4) Feedback

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

Tap "Feedback". Enter your suggestions and then submit it.
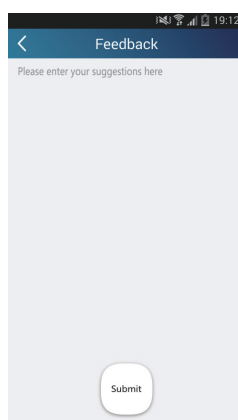
6.4 Brief Description of Modes and Functions

1. Cooling mode
(1) Under this mode, the fan and the up swing will operate at setting status. The temperature setting range is 16~30ºC.
(2) The unit is stopped because of malfunction of outdoor unit or protection. The indoor unit keeps original operation status and the error code is displayed.
(3) Indoor unit is stopped due to mode shock.

2. Drying mode
(1) Under this mode, the fan operates at low speed and the swing operates at setting status. The temperature setting range is 16~30ºC.
(2) The unit is stopped because of malfunction of outdoor unit or protection. The indoor unit keeps original operation status and the error code is displayed.

3. Heating mode
(1) Under this mode, the temperature setting range is 16~30ºC.
(2) Working condition and process for heating
When the unit is turned on under heating mode, the indoor unit turns to cold air prevention status. When the unit is turned off and the indoor unit has been started up before, the indoor unit blows the residual heat.
(3) Protection function: When the compressor is stopped due to malfunction under heating mode, the indoor unit blows the residual heat.
(4) Blow residual heat
When the unit stops operation as it reaches the temperature point, indoor unit will continue to run for 60s. The fan speed cant be switched during blowing residual heat period. The upper horizontal louver will turn to the defaulted position in cooling. When the unit operates under heating mode or auto heating mode, compressor will be turned on and the corresponding electric expansion valve is more than 65 and the unit stops operation during the operation status of indoor unit. The upper horizontal louver will turn to the defaulted position in heating mode. The indoor unit operates at low speed for 10s and then the unit stops operation.
(5) Defrosting, oil-returning
As it received the signal of defrosting and oil-returning from outdoor unit, the upper horizontal louver will turn to the minimum angle in cooling. 10s later, the in door fan stop operation. During defrosting and oil-returning process and they are quitted within 5mins, all malfunctions for indoor tube temperature sensor wont be detected.

4. Working process for AUTO mode (Mode judgment will be performed every 30s)
Under AUTO mode, standard cooling Tpreset=25ºC (77ºF), standard heating Tpreset=20ºC (68ºF), and standard fan Tpreset= 25ºC (77ºF).
(1) When Tamb≥26ºC (79ºF), the unit operation in cooling mode;
(2) Heating pump unit: When Tamb≤19ºC (66ºF), the unit operates in heating mode;
(3) Cooling only unit: Tamb≤19ºC (66ºF), the unit operates in fanmode;
(4) When 19ºC<Tindoor amb.<26ºC, if it turns to auto mode as the unit is turned on for the first time the unit will operates at auto fan mode. If it switch to auto mode from other modes, the unit will keep previous operation mode (when it turns to dry mode, the unit operates at auto fan mode).
(5) Protection function
Protection function is the same as that in cooling or heating mode.

5. Fan mode
Under fan mode, only indoor fan and swing operates. When it operates at auto fan speed, it will operate according to auto fan speed condition in cooling.

6. Mode shock
If the mode shock is 1 which is received by indoor unit from outdoor unit, the loads of indoor unit (indoor unit, auxiliary heating,swing) stop operation and the error code is displayed. The mode sent to outdoor unit is still remote control receiving mode. The unit will be turned off during mode shock.
If timer ON is reached, and the mode shock is 1 which is received by indoor unit from outdoor unit, the loads of indoor unit (indoor unit,auxiliary heating, swing) stop operation and the error code is displayed. The mode sent to outdoor unit is still remote control receiving mode.

7. Other control
7.1 Buzzer
Upon energization or availably operating the unit or remote controller, the buzzer will give out a beep.
7.2 Auto button
If this button is pressed, the unit will operate in AUTO mode and indoor fan will operate at auto speed; meanwhile, the swing motor operates. Press this button again to turn off the unit.
7.3 8 ºC heating function
Under heating mode, press TEMP+CLOCK buttons simultaneously. Under this mode, "cold air prevention protection" will be shielded.

7.4 I FEEL function

When I FEEL command is received, the controller will operate according to the ambient temperature sent by the remote controller (For defrosting and cold blow prevention, the unit operates according to the ambient temperature sensed by the air conditioner). The remote controller will send ambient temperature data to the controller every 10min. When the data has not been received after 11mins,the unit will operate according to the temperature sensed by the air conditioner. If I FEEL function is not selected, the ambient temperature will be that sensed by the air conditioner. I FEEL function will not to be memorized.

7.5 Timer function

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

(1)General Timer

Timer ON can be set at unit OFF. If selected ON time is reached, the unit will start to operate according to previous setting status. Time setting range is 0.5-24hr in 30-minute increments.

Timer OFF can be set at unit ON. If selected OFF time is reached, the unit will stop operation. Time setting range is 0.5-24hr in 30-minute increments.

(2)Clock Timer

Timer ON

 If timer ON is set during operation of the unit, the unit will continue to operate. If timer ON is set at unit OFF, upon ON time reaches the unit will start to operate according to previous setting status.

Timer OFF

If timer OFF is set at unit OFF, the system will keep standby status. If timer OFF is set at unit ON, upon OFF time reaches the unit will stop operation.

Timer Change

Although timer has been set, the unit still can be turned on/off by pressing ON/OFF button of remote controller. You can also set the timer once again, and then the unit will operate according to the last setting. If timer ON and timer OFF are set at the same time during operation of the unit, the unit will keep operating at current status till OFF time reaches. If timer ON and timer OFF are set at the same time at unit OFF, the unit will keep stop till ON time reaches. In the future's every day, the system will operate according to presetting mode till OFF.

7.6 Sleep function

This mode is only valid in cooling and heating modes. The unit will select proper sleep curve to operate according to different set temperature.

7.7 Compulsory defrosting function

When the unit is turned on in heating by remote controller and the set temperature is 16°C, press "+,-,+,-,+,-"continuously within 5s, the indoor unit turns to compulsory defrosting setting and it will send compulsory defrosting mode to outdoor unit.

When indoor unit received the compulsory defrosting signal from outdoor unit, the indoor unit will quit from the compulsory defrosting setting and it will cancel to send compulsory defrosting mode to outdoor unit.

7.8 Refrigerant recovery function

Turn to Freon recovery mode: After the unit is energized for 5min, and the unit is turned on at 16ºC under cooling mode, press light button on remote controller for 3 times successively within 3s to turn to Freon recovery mode. Fo is displayed and it will send Freon recovery mode to outdoor unit.

Quit from Freon recovery mode:After it turns to Freon mode, if it receives any signal from remote controller or it turns to Freon recovery mode for 25 mins, it will quit from Freon recovery mode.

Turn to the action for Freon recovery mode: indoor unit will be turned on in cooling mode. The fan speed is super-high fan speed and the set temperature is 16°C. The horizontal louver will turn to the minimum operation angle.

Quit the action for Freon recovery mode: The indoor fan operates at the previous set status by remote controller.

7.9 Pilot run function

When the set temperature is 30°C under cooling mode, press "+,-,+,-,+,-"continuously within 5s, the indoor unit turns to pilot run setting mode and it will send pilot run mode to outdoor unit.

Pilot run mode: it operates under cooling mode and "dd" is displayed.

Quit the pilot run mode and indoor unit cancels "dd" display. If it receives "wrong wire connection of malfunction of expansion valve" from outdoor unit, "dn" will be displayed.