



Owner's Manual

Original Instructions

Wired Controller XE73-23/HC

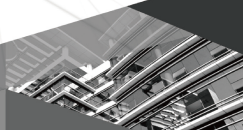


GREE+

Thank you for choosing this product. Please read this Owner's Manual carefully before operation and retain it for future reference.

If you have lost the Owner's Manual, please contact the local agent or visit www.gree.com or send an email to global@cn.gree.com for the electronic version.

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI



To Users

Thank you for selecting Gree product. Please read this instruction manual carefully before installing and using the product, so as to master and correctly use the product. In order to guide you to correctly install and use our product and achieve expected operating effect, we hereby instruct as below:

- (1) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- (2) This instruction manual is a universal manual; some functions are only applicable to particular product. All the illustrations and information in the instruction manual are only for reference, and control interface should be subject to actual operation.
- (3) In order to make the product better, we will continuously conduct improvement and innovation. If there is adjustment in the product, please subject to actual product.
- (4) If the product needs to be installed, moved or maintained, please contact our designated dealer or local service center for professional support. Users should not disassemble or maintain the unit by themselves, otherwise it may cause relative damage, and our company will bear no responsibilities.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Special Functions and Instructions

Sensor	Function
Temperature sensor	Detect the indoor ambient temperature.
Humidity sensor	Detect the indoor ambient humidity.

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1 Safety Notices (Please be sure to abide them)



WARNING: If not abide them strictly, it may cause severe damage to the unit or the people.



NOTE: If not abide them strictly, it may cause slight or medium damage to the unit or the people.



This sign indicates that the items must be prohibited. Improper operation may cause severe damage or death to people.



This sign indicates that the items must be observed. Improper operation may cause damage to people or property.



WARNING!

This product can't be installed at corrosive, inflammable or explosive environment or the place with special requirements, such as kitchen. Otherwise, it will affect the normal operation or shorten the service life of the unit, or even cause fire hazard or serious injury. As for the above special places, please adopt special air conditioner with anti-corrosive or anti-explosion function.

2 Operation Notices

- (1) The power supply for all indoor units must be unified.
- (2) Prohibit installing the wired controller at wet or sunshine places.
- (3) Do not knock, throw or frequently disassemble the wired controller.
- (4) Do not operate the wired controller with wet hands.
- (5) Functions with “*” are optional for indoor units. If a function is not included in an indoor unit, wired controller can't set the function, or setting of this function is invalid to the indoor unit.

- (6) Please pay attention to below items when matching with VRF unit:
- 1) When the system mode priority is the master-slave mode, in one system network, you must set one indoor unit as the master indoor unit, other indoor units are slave indoor units.
 - 2) When the system mode priority is the master-slave mode, the operation mode of the system is basing on that of the master indoor unit. The master indoor unit can be set to any mode (including auto mode), while the slave indoor unit can't set to the mode that conflicts with the system mode.
 - 3) When the system mode priority is: Cooling mode is prioritized, heating mode is prioritized, first-set mode is prioritized, or last-set mode is prioritized. The indoor unit can be set to any mode (excluding auto mode). The indoor unit will automatically switch to the system mode, when the operation mode of the indoor unit conflicts with the system operation mode.
 - 4) When the system mode priority is the voting mode (indoor unit's capacity is prioritized / number of indoor units is prioritized). The indoor unit can be set to any mode (excluding the auto mode). The indoor unit will be stopped, when the operation mode of the indoor unit conflicts with the system operation mode after voting.
 - 5) System mode priority defaults to master-slave mode, and only certain units have other system mode priorities.

3 Installation and Commissioning

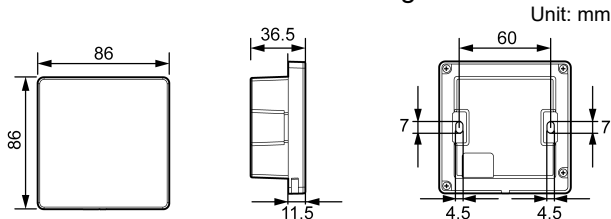


Fig. 3.1 Dimension of Wired Controller

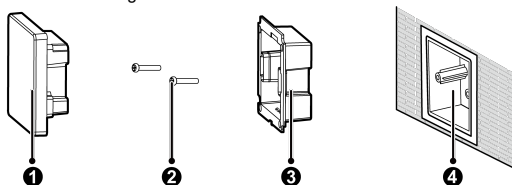


Fig. 3.2 Parts and Components of Wired Controller

No.	1	2	3	4
Name	Panel of wired controller	Screw M4×25	Soleplate of wired controller	Wiring box
QTY	1	2	1	Prepared by the user

3.1 Instruction of Wired Controller

3.1.1 Requirements for Model Selection of Communication Wire

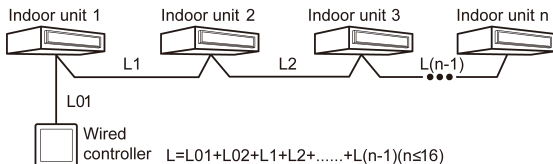


Fig. 3.3 Length of communication wire

Wire material type	Total length L (m/feet)	Wire size (mm ² /AWG)	Material standard	Remarks
Light/ Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	$L \leq 100\text{m}$ ($L \leq 328$ feet)	2×0.75 $\text{mm}^2 \sim 2 \times$ 1.25 mm^2 ($2 \times \text{AWG}18 \sim$ $2 \times \text{AWG}16$)	IEC 60227- 5:2007	(1) Total length of communication line can't exceed 100m (328 feet). (2) The cord shall be Circular cord (the cores shall be twisted together). (3) If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

3.1.2 Requirements for Installation

- (1) It is not allowed to install the wired controller in the wet place.
- (2) It is not allowed to install the wired controller in the place with direct sunlight.
- (3) It is not allowed to install the wired controller near the high-temperature object or the place is likely to be spattered with water.
- (4) The wired controller can only be installed indoors and the operating temperature ranges from 0°C(32°F) to 45°C(113°F).

3.1.3 Requirements for Wired Connection

Network connecting methods between wired controller and indoor unit are as below:

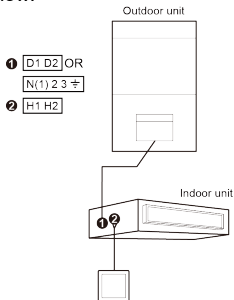


Fig. 3.4 one wired controller controls one indoor unit

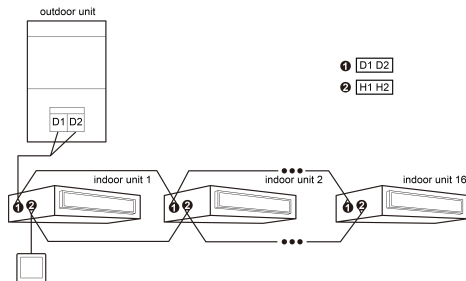


Fig. 3.5 one wired controller controls multiple VRF indoor units simultaneously

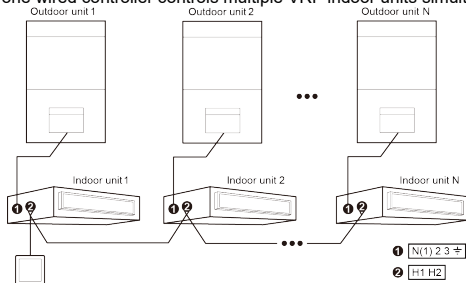


Fig.3.6 one wired controller controls multiple Packaged indoor units simultaneously

Instructions for wiring:

- (1) When the wired controller is connected to the Packaged unit, the wiring method of Figure 3.4 and Figure 3.6 can be adopted, and the recommended length of communication wire between the units is 8m.
- (2) When the wired controller is connected to VRF units, the wiring method of Figure 3.4 and Figure 3.5 can be adopted, and the recommended length of communication wire between the units is 15m.
- (3) When the wired controller is connected to the Big Duct Type unit, the wiring method of Figure 3.4 can only be used, that is, only one wired controller can be connected to one indoor unit, and one wired controller cannot be connected to multiple indoor units of different systems.
- (4) When a wired controller controls multiple indoor units at the same time, the wired controller can be connected to any indoor unit, but the connected indoor unit must be of the same series and cannot exceed 16 at most. The wired controller needs to be set for the "Number of IDUs", and the setting method is referred to 3.2.2 parameter setting.
- (5) When a wired controller controls multiple indoor units at the same time, the settings of the indoor units controlled are the same.
- (6) The wired controller interface is non-polar, but it cannot be connected to strong current.

3.1.4 Interface Introduction

Table 3.1 Interface Introduction

Interface	H1/H2
Meaning	Communication Interface
Parameter	18VDC Input (From indoor unit)

3.1.5 Installation

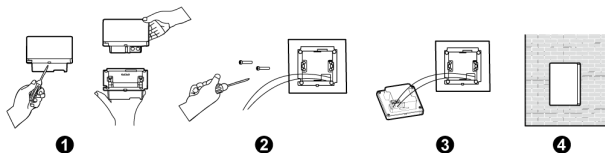


Fig. 3.7 Installation of Wired Controller

Fig. 3.7 shows a simple installation course of wired controller, and the following points should be noted:

- (1) Before installation, please cut off the power supply of indoor unit, it is not allowed to operate with power supply.
- (2) Use a flat-head screwdriver to separate the panel of the wired controller from the base plate, as shown in picture①.
- (3) Use screw M4×25 to fix the base plate onto the junction box, pay attention to the installation direction, the arrow direction  UP as shown in the base plate of figure ② shall be upward.
- (4) Connect the two-core twisted pair cable to terminals H1 and H2 of the base plate and tighten the screws. Ensure that the length

of the stripped sheath is not over 10mm; otherwise, the cores of the cable may come into contact after wiring and cause short circuit.

- (5) Fasten the panel and the base plate of the wired controller together to complete the installation.

3.1.6 Disassembly

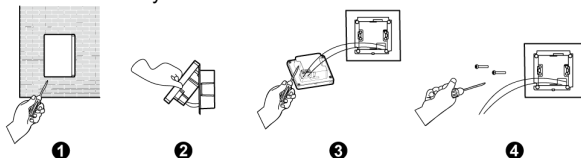


Fig. 3.8 Disassembly of wired controller

NOTE:

Please use slotted screwdriver to disassemble the wired controller as shown in Figure ①, so as to pry the panel from the base plate of wired controller.

3.2 Commissioning

3.2.1 Parameter View

Press the menu button “” on the home page to enter the menu page, and then select “Set” to enter the setting page. On the setting page, select “Project Parameter” to enter the project parameter page, and select “Parameter View” to enter the project parameter view page.

3.2.2 Parameter Setting

Press the menu button “” on the home page to enter the menu page, and then select “Set” to enter the setting page. On the setting page, select “Project Parameter” to enter the project parameter page, and select “Parameter Setting” to enter the project parameter setting page.

4 Status Bar Icons

The status bar on the home page displays the enabled functions and status icons. If there are too many icons on display, the right side of the status bar will display “...”. You may tap the status bar to see all the enabled functions and status.

Table 4.1 Status Bar Icons

Icons	Instructions	Icons	Instructions
	Up and down swing function.		Air status, Indoor unit optional function.
	Left and right swing function.		Health function, Indoor unit optional function.
	Current wired controller connects master indoor unit.		Absence function.
	One wired controller controls multiple indoor units.		Auto quiet function.
	Slave wired controller.		Quiet function.

Icons	Instructions	Icons	Instructions
	Shielding status.		Save function.
	Gate-control function.		Sleep function.
	Child lock status.		X-fan function.
	Outdoor unit defrosting status.		Fresh air control function of AHU-KIT.
	Schedule function.		WiFi status.
	I-Demand function		DRED function
	Independent swing		

5 Operation Instructions

5.1 On/Off Setting

Press “” button to turn on the unit. Press “” button again to turn off the unit. The interfaces of On/Off status are shown in fig. 5.1 ~ 5.2.



Fig. 5.1 Interface of On status

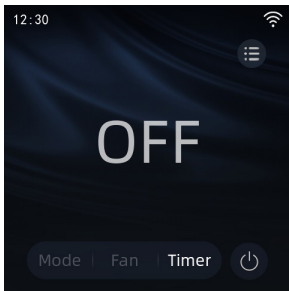


Fig. 5.2 Interface of Off status

NOTE:

The figures is only a dark theme as an example, the same below.

5.2 Mode Setting

In the On state, press the “Mode” button on the home page, slide left and right in the pop-up window or click the corresponding mode to select cooling, heating or other modes, and press the “Mode”

button again or press other buttons to cancel the mode popup window.

NOTES:

- ① Different models have different modes. The wired controller will define the mode setting range according to the model of indoor unit.
- ② The VRF unit can only be set to Auto mode by the master indoor unit in master-slave mode (this condition is not applicable to heat recovery units).
- ③ The slave indoor unit cannot set the mode that conflicts with the system mode, and when switching to the first or last mode, it prompts “cooling or heating mode can't be selected by the slave unit”.
- ④ For heat recovery unit, any indoor unit can be converted to any mode.

5.3 Temperature Setting

In the On state, slide the arc on the home page or click the “+/-” button can adjust the set temperature.

NOTES:

- ① After turning on the absence or 12-Drying(low temperature drying) functions, the set temperature cannot be adjusted.
- ② When the wired controller controls VRF unit, you cannot adjusted the set temperature under Auto mode on the home page, and you can only set the cooling and heating temperature under the Auto mode in the parameter setting.
- ③ When the “Dry Mode Humidity Control” setting is enabled, you

can set the humidity value. "Dry Mode Humidity Control" can be set only for units with this function. For details, see 3.2.2 User Parameter Settings.

- ④ When the wired controller is connected with a Fresh Air Indoor Unit, "Fresh Air" will be displayed on the Set Temperature area. Setting temperature won't be displayed and can't be adjusted. The air outlet temperature in cooling or heating can only be set in the parameter setting.

5.4 Fan Setting

Press the "Fan" button on the home page when the unit is turned on. Slide left and right in the pop-up window or click the corresponding fan speed, select the fan speed, and press the "Fan" button again or press other buttons to cancel the fan speed pop-up window. The fan speed that can be set includes: auto, low, medium and low, medium, medium and high, high.

NOTES:

- ① Under Dry mode, fan speed is low and can't be adjusted.
- ② When the wired controller is connected with a Fresh Air Indoor Unit, fan speed of indoor unit will be high fan speed only. Fan speed of indoor unit can't be adjusted via "Fan" button.
- ③ If indoor unit's fan speed is set auto, indoor unit will change fan speed automatically according to room temperature in order to make the room temperature more stable and comfortable.
- ④ When adjusting fan speed, quiet or auto quiet is turned off.

5.5 Timer Setting

Under On status, Timer Off can be set; Under Off status, timer On can be set.

Under the home page, press the “Timer” button and a window will pop up. Slide left and right or tap the time figure in the pop-up window to set the time; Press the “Timer” button again or any other button to hide the pop-up window; When the Timer function is enabled, press the “Timer” button to cancel the timer and no window will show up.

Range of the countdown timer: 0.5~24 hours.

5.6 Function Setting

Under the home page, press the menu button “” to enter the menu page. Select “Function” to enter the page of function setting.

Press the option with “” (Quiet, Air, Clean Remind, Left&Right Swing, Up&Down Swing, Independent Swing, Save) to enter the setting page of the corresponding function.

Function introduction:

Sleep: It will enable the indoor unit to run in sleep mode. The indoor unit can run according to the preset sleep temperature curve to provide a comfortable sleeping environment and improve the quality of sleep. The sleep function can be enabled in cooling, drying, heating, 3D heating or space heating. When the sleep function is turned on, the auto quiet function will also be turned on.

Child lock: When the child lock function is enabled, the controller

will directly return to the home page and all buttons are inoperable. Follow the prompt to unlock the buttons.

Absence: It is used to maintain the indoor temperature and ensure rapid heating after the unit is turned on. The absence function is available only in heating mode.

X-fan: It is used to blow off the water on the evaporator of the indoor unit after power is off. It can prevent mildew growth and can be enabled only in cooling or drying mode.

Health*: It is used to control the air purification module for sterilization. This function cannot be turned on in floor heating mode.

12-Drying(Low temperature drying): It can be turned on only in drying mode. After this function is turned on, the set temperature in drying mode defaults to 12°C(54°F).

Turbo: The unit runs at the highest fan speed. After this function is turned on, turbo will be displayed on the home page.

I-Demand*: The unit will operate in the SE mode to save energy. I-Demand function can be only be used under cooling mode. It is only applicable to Packaged unit.

5.6.1 Swing Function*

On the function page, select “UD Swing” or “LR Swing” to enter the page of Up&Down or Left&Right swing setting. Press the corresponding swing icon to select the swing mode. Press “Enter” to save the setting and return to the previous page.

On the function page, select “Independent Swing” to enter the independent swing setting page can set the swing status of different

air outlets. Press “Enter” to save the setting and return to the previous page.

5.6.2 Quiet Function

Quiet function: It is used to lower the operating noise of the indoor unit. Quiet function includes two modes: quiet mode and auto quiet mode, which can be effective in auto, cooling, drying, fan, heating, 3D heating and space heating modes.

On the function page, select “Quiet” to enter the page of quiet function setting. Press the button “<” or “>” to switch between “Quiet” and “Auto Quiet”. Press “Enter” to save the setting and return to the previous page.

NOTES:

- ① When the quiet function is enabled, the indoor unit runs in quiet fan mode. The fan speed is lowered to reduce the noise of the indoor fan.
- ② When the auto quiet function is enabled, the indoor unit will automatically change the fan speed according to the indoor ambient temperature. When the indoor ambient temperature reaches the set temperature, the unit will run in quiet fan mode.

5.6.3 Air Function*

Air function: It is used to adjust the fresh air volume of the room, improve indoor air quality and keep the indoor air fresh.

On the function page, select “Air” to enter the page of air change setting. Press the button “<” or “>” to adjust the level of air change from 1 to 10. Press “Enter” to save the setting and return to the previous page.

NOTES:

- ① The air change function is available in models designed with air change function and equipped with an electric fresh air damper (fresh air valve) during engineering installation.
- ② The level of air change corresponds to the time period that the fresh air valve is open per unit time (60 minutes), as shown in the table below. The opening time of the fresh air valve is the first N minutes of the unit time. For example: If the level of air change is set to 1, the unit starts to time and the fresh air valve is open simultaneously. 6 minutes later, the fresh air valve is closed and the unit continues to run. After 60 minutes of timing, the cycle repeats, that is, the unit restarts timing and the fresh air valve is open for 6 minutes and then closed.

Level	Opening Time of Fresh Air Valve
1	60/6
2	60/12
3	60/18
4	60/24
5	60/30
6	60/36
7	60/42
8	60/48
9	60/54
10	Open at all times

NOTE: The time in the table indicates the operating time of the unit (min) / the opening time of the fresh air valve during operation (min).

5.6.4 Save Function

Save function: By setting the lower limit of the set temperature in cooling and drying modes and the upper limit of the set temperature in heating, 3D heating and space heating modes, this function allows the air conditioner to run in a smaller temperature range, so as to save energy.

On the function page, select “Save” to enter the page of save function setting. Select a mode and set the temperature lower limit or upper limit under the corresponding mode. Press “Enter” to save the setting and return to the previous page.

If save function is enabled in cooling and drying modes, the set temperature on the home page cannot be lower than the lower limit; If save function is enabled in heating, 3D heating and space heating modes, the set temperature on the home page cannot be higher than the upper limit; otherwise, the buzzer will beep twice with a pop-up window indicating invalid operation.

5.6.5 Filter Clean Remind

Filter clean remind: The air conditioner will record the operating time and remind user to clean the filter when it reaches the time set by the user, so as to avoid problems such as poor cooling and heating effect, abnormal protection and bacterial breeding caused by the dirty and blocked filter after a long period of use without cleaning.

On the function page, select “Clean Remind” to enter the page of filter clean reminder setting. The current environment cleanliness (A, B ,C) and cleaning cycle (0-9) can be set. Press “Enter” to save the setting and return to the previous page.

The cleaning reminding time is determined according to the current environment cleanliness and cleaning cycle.

Current Environment Cleanliness	Cleaning Cycle
A	When the cleaning cycle is 0, the cumulative operating time is 5,500 hours. For each increase of 1, the cumulative operating time increases by 500 hours. When the cleaning cycle is 9, the cumulative operating time is 10,000 hours.
B	When the cleaning cycle is 0, the cumulative operating time is 1,400 hours. For each increase of 1, the cumulative operating time increases by 400 hours. When the cleaning cycle is 9, the cumulative operating time is 5,000 hours.
C	When the cleaning cycle is 0, the cumulative operating time is 100 hours. For each increase of 1, the cumulative operating time increases by 100 hours. When the cleaning cycle is 9, the cumulative operating time is 1,000 hours.

NOTE:

When it reaches the cleaning time, an alert will pop up on the home page to remind the user to clean the filter. Press “Done” or “Ignore” to cancel the display. At the same time, the cumulative operating time of the “Clean Remind” is cleared and reset.

5.6.6 Auto Clean Function*

On the function page, press the switch “Auto Clean” and enable the auto clean function as prompted. After entering the auto clean function, it will return to the home page with a pop-up window displaying the auto cleaning status. Press “Exit” and follow the

prompts to exit the auto cleaning function.

NOTES:

- ① This setting is only applicable to units with auto clean function.
- ② When there is a fault, the auto clean function cannot be enabled by the wired controller.
- ③ When the indoor unit is in cleaning process, it will generate frost on the evaporator, liquid flow sound, and fluctuations of indoor temperature and humidity, which will affect the comfort level. It is recommended to use this function when nobody is in the room. To ensure the cleaning effect, please turn on the auto clean function every three months.
- ④ If the indoor humidity is too low, the auto cleaning effect will be weakened.
- ⑤ It is recommended to use the auto clean function when the outdoor ambient temperature is within the range of 10°C ~40°C (50°F~104°F). If the temperature is out of this range, the auto clean function may exit in advance, which is normal.
- ⑥ In a VRF system, if one indoor unit enters the auto clean function, all units in the system will run in auto clean mode.
- ⑦ The Packaged unit can only enter auto clean function when the unit is off.

5.6.7 DRED Function*

Under On status, DRED function can be turned on or off on the function page. Press the setting value to enter the page of DRED setting, which can switch between two modes: DRED 2 and DRED 3.

Press “Enter” to confirm the setting and return.

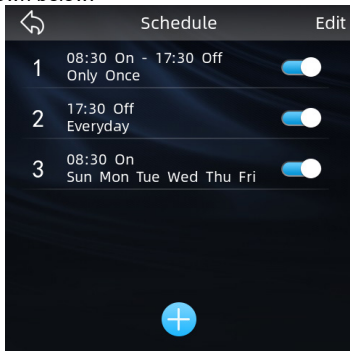
The DRED function can only be set in cooling, heating, auto or drying mode.

The DRED function and the I-Demand function are mutually exclusive, that is, turning on one function will turn off the other.

This function is available only on Packaged unit.

5.7 Schedule Setting

Under the home page, press the menu button “⋮” to enter the menu page. Then select “Schedule” to enter the page of schedule setting, as shown below:



Tap the plus button to add up to 14 schedule entries.

Tap the “Edit” button in the upper right corner and select the corresponding entry, or tap “All” to select or cancel all of the selection. Tap “Delete” to delete the corresponding entry.

Tap the corresponding entry to enter the specific setting page, which includes the settings of mode, temperature, fan speed, On/Off time and repeat, as shown below:

	Schedule Set	Done
☒ On		
☒ Mode	06	28
☒ Temp	07	29
☒ Fan	08	30
☒ Off	09	31
	10	32
Repeat		

Mode, temperature, fan speed, On/Off time can be enabled through the check boxes on the left. When a setting is enabled, it will be effective when the time is up.

NOTES:

- ① If the time format is a 12-hour clock, the schedule setting page is displayed in a 12-hour format.
- ② To ensure time accuracy, please check whether the system displays the current date and time before setting the schedule. If the date or time is incorrect, please reset the date and time on the page of date and time.
- ③ “Mode”, “Temperature” and “Fan” can only be selected when “Timer On” is enabled.

5.8 WiFi Connection

This product can be controlled by the “GREE+” App, please scan the QR code on the home page of the manual to download the “GREE+” App, and follow the following steps for WiFi connection:

Click “WiFi Connection” on the setting page, and follow the prompts to reset the WiFi. After that, use the mobile phone to connect to the WiFi, turn on the Bluetooth of the mobile phone, open the “GREE+” App, put the mobile phone close to the wired controller, click the “+” in the upper right corner of the “Home” page, select the device that searches for the corresponding MAC, and then configure the network according to the prompts of the mobile phone.

NOTES:

- ① When the device is offline or the name and password of the router are changed, you can reset the WiFi and reconfigure the network.
- ② If you encounter any problems in the process of network

connection, you can seek help through the “Help” of the App.

- ③ This WiFi connection function is to set the WiFi of the controller itself. On the “Parameter Setting” page, “Reset Unit WiFi” is used to set the WiFi gateway of the unit system.

5.9 Remote Shield Function

Remote Shield Function: Remote monitor or central controller can disable the relevant functions of wired controller so as to realize the function of remote control.

When the remote monitor or central controller activates Remote Shield on the wired controller, “” icon will show. If user wants to control through the wired controller, “Remote shielding” will display to remind that these controls are disabled.

5.10 Gate-Control Function

When there is Gate-control System, user can insert a card to turn on the unit or pull off a card to turn off the unit. When the card is re-inserted, the unit will recover the operation as state in memory. When the card is pulled off (or improperly inserted), “” icon will show, operation of wired controller will be invalid.

5.11 Setback Function

In unit off status with Setback function activated, the unit will operate in heating mode automatically when indoor temperature is lower than temperature lower limit for Setback function and operate in cooling mode automatically when indoor temperature is higher than temperature upper limit for Setback function, so as to keep indoor temperature within the temperature upper and lower limit range for

Setback function.

When the Setback function is on, the Setback icon " " is always on. If the cooling or heating mode under the Setback function is running, the Setback icon " " flashes.

NOTES:

- ① Setback Function is forbidden as defaulted, you can activate or forbid Setback Function through parameter setting (refer to 3.2.2).
- ② When the slave indoor unit is operating in Setback Function, it cannot operate in the mode which is in conflict with that of master indoor unit.
- ③ When All Shield function of remote monitor or central controller is turned on, the wired controller can't enter or exits from Setback Function.

5.12 Other Settings

On the setting page, you can alter the setting of display, theme, language, sound, date & time, temperature unit and version updating, etc.

6 Error Display

If an error occurs during operation, the status bar on the home page of the wired controller will display the error code and the project number of the faulty indoor unit. If there are multiple errors, the error codes will be displayed cyclically.

NOTE: If error occurs, please turn off the unit and send for professionals to repair.

6.1 Table of Display Codes for VRF and Big Duct Unit

6.1.1 Table of Error Codes for Outdoor Unit

Error Code	Content	Error Code	Content
E0	Outdoor Unit Error	J9	System Pressure Under-Ratio Protection
E1	High Pressure Protection	JA	Protection of Abnormal Pressure
E2	Discharge Low Temperature Protection	JC	Protection of Water Flow Switch
E3	Low Pressure Protection	JL	Protection of Low High-pressure
E4	Excess Discharge Temperature Protection of Compressor	JE	Oil Return Pipe is Blocked
Ed	Low Temperature Protection of Driver Module	JF	Oil Return Pipe is Leaking
F0	Bad Performance of the Outdoor Mainboard	JJ	Low Water-in Temperature Protection
F1	High Pressure Sensor Error	b1	Outdoor Ambient Temperature Sensor Error
F2	Inlet Tube Temperature Sensor Error of Plate Type Heat Exchanger	b2	Defrosting Temperature Sensor 1 Error

Error Code	Content	Error Code	Content
F3	Low Pressure Sensor Error	b3	Defrosting Temperature Sensor 2 Error
F4	Outlet Tube Temperature Sensor Error of Plate Type Heat Exchanger	b4	Subcooler Liquid-out Temperature Sensor Error
F5	Compressor 1 Discharge Temperature Sensor Error	b5	Subcooler Gas-out Temperature Sensor Error
F6	Compressor 2 Discharge Temperature Sensor Error	b6	Gas-liquid Separator Inlet Temperature Sensor Error
F7	Compressor 3 Discharge Temperature Sensor Error	b7	Gas-liquid Separator Outlet Temperature Sensor Error
F8	Compressor 4 Discharge Temperature Sensor Error	b8	Outdoor Humidity Sensor Error
F9	Compressor 5 Discharge Temperature Sensor Error	b9	Heat Exchanger Gas-out Temperature Sensor Error
FA	Compressor 6 Discharge Temperature Sensor Error	bA	Oil-return Temperature Sensor Error
FC	Compressor 2 Current Sensor Error	bH	System Clock Malfunction
FL	Compressor 3 Current Sensor Error	bE	Malfunction of Entry Tube Temperature Sensor of Condenser
FE	Compressor 4 Current Sensor Error	bF	Malfunction of Exit Tube Temperature Sensor of Condenser

Error Code	Content	Error Code	Content
FF	Compressor 5 Current Sensor Error	bJ	High and Low Pressure Sensors are Connected Inversely
FJ	Compressor 6 Current Sensor Error	bP	Oil-return 2 Temperature Sensor Error
FP	Malfunction of DC motor	bU	Oil-return 3 Temperature Sensor Error
FU	Compressor 1 Top Temperature Sensor Error	bb	Oil-return 4 Temperature Sensor Error
Fb	Compressor 2 Top Temperature Sensor Error	bd	Air-in Temperature Sensor Error of Subcooler
Fd	Mode Exchanger Outlet Pipe Temperature Sensor Error	bn	Liquid-in Temperature Sensor Error of Subcooler
Fn	Mode Exchanger Inlet Pipe Temperature Sensor Error	by	Water-out Temperature Sensor Error
Fy	Water-in Temperature Sensor Error	P0	Compressor Drive Board Error
J1	Compressor 1 Over-current Protection	P1	Compressor Drive Board Malfunction
J2	Compressor 2 Over-current Protection	P2	Protection of Compressor Drive Board Power Supply
J3	Compressor 3 Over-current Protection	P3	Protection of Compressor Drive Board Module Reset
J4	Compressor 4 Over-current Protection	H0	Error of Fan Drive Board

Error Code	Content	Error Code	Content
J5	Compressor 5 Over-current Protection	H1	Malfunction of Fan Drive Board
J6	Compressor 6 Over-current Protection	H2	Protection of Fan Drive Board Power Supply
J7	4-way Valve Blow-by Protection	GH	PV DC/DC Protection
J8	System Pressure Over-Ratio Protection	—	—

6.1.2 Table of Error Codes for Indoor Unit

Error Code	Content	Error Code	Content
L0	Indoor Unit Error	dL	Outlet Air Temperature Sensor Error
L1	Indoor Fan Protection	dE	Indoor Unit CO ₂ Sensor Error
L2	E-heater Protection	db	Special Code: Field Debugging Code
L3	Water Full Protection	dn	Swing Assembly Error
L4	Wired Controller Power Supply Error	dy	Water Temperature Sensor Error
L5	Anti-Frosting Protection	y1	Inlet Pipe Temperature Sensor 2 Error
L6	Mode Conflict	y2	Outlet Pipe Temperature Sensor 2 Error
L7	No Master Indoor Unit Error	y3	Middle Tube Temperature Sensor 2 Error

Error Code	Content	Error Code	Content
L8	Power InsufficiencyProtection	y7	Fresh Air Inflow Temperature Sensor Error
L9	Quantity Of Group Control Indoor Units Setting Error	y8	Indoor Air Box Sensor Error
LA	Indoor Units Incompatibility Error	y9	Outdoor Air Box Sensor Error
LH	Low Air Quantity Warning	yA	IFD error
LC	Outdoor-Indoor Incompatibility Error	yH	Fresh Air-out Sensor Error
LF	Shunt Valve Setting Error	yC	Air-return Inlet Sensor Error
LJ	Wrong Setting of Function DIP Switch	yL	Air-return Outlet Temperature Sensor Error
LP	Zero-crossing Malfunction of PG Motor	yE	High Liquid Level Switch Error
LU	Inconsistent Branch of Group-controlled Indoor Units in Heat Recovery System	yF	Low Liquid Level Switch Error
Lb	Inconsistency of Group-controlled Indoor Units in Reheat Dehumidification System	o0	Motor Drive Error
Ld	Indoor Fan 2 Error	o1	Low Voltage of IDU Bus Bar
Ln	Lift Panel Return Air Frame Reset Exception	o2	High Voltage of IDU Bus Bar

Error Code	Content	Error Code	Content
d1	Indoor Unit PC-Board Error	o3	IDU IPM Module Protection
d3	Ambient Temperature Sensor Error	o4	IDU Startup Failure
d4	Inlet Pipe Temperature Sensor Error	o5	IDU Overcurrent Protection
d5	Malfunction of Middle Tube Temperature Sensor	o6	IDU Current Detective Electric Circuit Error
d6	Outlet Pipe Temperature Sensor Error	o7	IDU Losing Step Protection
d7	Humidity Sensor Error	o8	IDU Driver Communication Error
d8	Water Temperature Abnormality	o9	Communication Error of IDU Master Controller
d9	Jumper Cap Error	oA	High Temperature of IDU Module
dA	Indoor Unit Hardware Address Error	oC	IDU Charging Circuit Error
dH	Wired Controller PC-Board Error	ob	Temperature Sensor Error of IDU Module
dC	Capacity DIP Switch Setting Error	—	—

6.1.3 Table of Debugging Codes

Error Code	Content	Error Code	Content
U2	Outdoor Unit Capacity Code/Jumper Cap Setting Error	C0	Communication between indoor unit and outdoor unit and the communication between indoor unit and wired controller have malfunction
U3	Phase Sequence Protection of Power Supply	C1	Communication error of expansion board
U4	Protection of Lack of Refrigerant	C2	Communication error between master control and inverter compressor drive
U5	Wrong Address of Compressor Drive Board	C3	Communication error between master control and inverter fan motor drive
U6	Valve Abnormal Alarm	C4	Error of Lack of Indoor Unit
U7	Grid DRED0 Response Protection	C5	Alarm of Indoor Unit Project Number Collision
U8	Indoor Unit Tube Malfunction	C6	Alarm of Wrong Number of Outdoor Unit
U9	Outdoor Unit Tube Malfunction	C7	Mode Exchanger Communication Error
UA	Overvoltage Protection of DC Bus Bar in Power Grid Side	CH	Rated capacity is too high

Error Code	Content	Error Code	Content
UH	Under voltage Protection of DC Bus Bar in Power Grid Side	CC	No master control unit error
UC	Master indoor unit is successfully set	CL	Rated capacity is too low
UL	Emergency Operation DIP switch setting of the compressor is wrong	CE	Communication Failure Between Mode Exchanger and Indoor Unit
UE	Refrigerant Charging is ineffective	CF	Error of Multiple Master Indoor Unit
UF	Indoor Unit Identification Error of Mode Exchanger	CJ	System addresses is incompatible
UJ	PV module F0 protection	CP	Error of Multiple Master Wired Controller
UP	Protection shutdown error of thermal storage module	CU	Communication Error between Indoor Unit and Remote Receiver
UU	Electronic expansion valve leak error of thermal storage module	Cb	Outflow of Units IP Address
Ub	Protection without shutdown error of thermal storage module	Cd	Communication Failure Between Mode Exchanger and Outdoor Unit
Ud	Grid-connection driver board error	Cn	Indoor and Outdoor Network Error of Mode Exchanger

Error Code	Content	Error Code	Content
Un	Communication error between grid-connection driver board and master controller	Cy	Communication Error of No Master in Mode Exchanger
Uy	PV module overheating protection	—	—

6.1.4 Table of Status Codes

Error Code	Content	Error Code	Content
A0	Unit is waiting for debugging	Ay	Shielding status
A1	Check the compressor operation parameters	n3	Compulsory defrosting
A2	After-sales Refrigerant Reclaim	q5	Setting of ordinary units and high sensible heat units
A3	Defrosting	q7	Select degree Celsius or Fahrenheit
A4	Oil return	q8	Discharge low temperature protection revision value b
A5	Online Testing	q9	Setting of defrosting mode
A8	Vacuum-pumping Mode	qL	Setting of static pressure
A9	Operate in Setback Function	qE	EVI Operating Mode
AH	Heating	qF	System compulsory cooling mode

Error Code	Content	Error Code	Content
AC	Cooling	qP	PV GMV Unit export area setting
AF	Fan	qU	Grid voltage system configuration
AJ	Filter Clean Reminder	qb	Anti-condensation temperature setting
AU	Remote Urgent Stop	qd	Setting of target degree of super-cooling of ODU
Ab	Emergency Stop	qn	PV grid-connected settings
Ad	Operation Restriction	qy	Working mode of compressor heating belt
An	Lock status	—	—

6.2 Table of Display Codes for Packaged Unit

6.2.1 Table of Error Codes of Outdoor Unit

Error Code	Content	Error Code	Content
E4	Discharge Protection	LA	Outdoor Fan 2 Error
H4	Overload Protection	L3	Outdoor Fan 1 Error
PA	ODU AC Current Protection	E3	System Low Pressure Protection
H5	Module Current Protection	E1	System High Pressure Protection
P8	Module Temperature Protection	U3	DC Bus Voltage Drop Error

Error Code	Content	Error Code	Content
E2	Freeze Protection	U5	Current Detecting Error of Complete Unit
L9	High Power Protection	PU	Capacitor Charging Error
U2	Compressor Phase Loss/Phase Reversal/Out of Phase	U1	Compressor Phase Current Circuit Detecting Error
HC	PFC Overcurrent Error	H7	Compressor Non-synchronism
PH	High Voltage Protection of DC Bus	HE	Compressor Demagnetization Protection
PL	Low Voltage Protection of DC Bus	LE	Compressor Stalling
Lc	Startup Failure	P6	Drive Board Communication Error
P0	Drive Module Reset	P5	Overcurrent of Compressor Phase Current
LF	Overspeed	PP	DC Input Voltage Error
C8	Compressor DIP Switch/Jumper Cap Error	Uo	Abnormal Outdoor Ambient Temperature (heating at too high ambient temperature or cooling at too low ambient temperature)
PF	Drive Board Ambient Temperature Sensor Error	b5	Liquid Valve Temperature Sensor Error
P9	AC Contactor Protection	b7	Gas Valve Temperature Sensor Error

Error Code	Content	Error Code	Content
PE	Temperature Shifting Protection	A5	Outdoor Condenser Inlet Pipe Temperature Sensor Error
Pd	Sensor Connection Protection (current sensor hasn't been connected to corresponding U phase or V phase)	A7	Outdoor Condenser Outlet Pipe Temperature Sensor Error
e3	Low Pressure Sensor Error	A4	Refrigerant Temperature Sensor Error
C7	Outdoor Pipe Middle Sensor Error	A3	ODU Refrigerant Heater Failure
E1	High Pressure Switch 2 Error	A2	ODU Refrigerant Heater Relay Adhesion Error
C9	Compressor Drive Storage Chip Error	E6	Communication Error between ODU and IDU
Ad	Outdoor Fan Out-of-phase Protection	C4	ODU Jumper Cap Error
AE	Outdoor Fan Current Detecting Circuit Error	dJ	AC Phase Sequence Protection (phase loss or phase reversal)
Ac	Outdoor Fan Startup Failure	e1	High Pressure Sensor Error
AJ	Outdoor Fan Non-synchronism Protection	UL	Outdoor Fan Overcurrent Protection

Error Code	Content	Error Code	Content
EL	Emergency Operation Stop	A1	Outdoor Fan IPM Module Protection
oE	Other Error of Compressor	C6	Discharge Temperature Sensor Error
dc	Compressor Suction Temperature Sensor Error	C3	Outdoor Condenser Middle Pipe Temperature Sensor Error
P7	Module Temperature Sensor Circuit Error	U7	4-way Valve Commutation Error
U8	Zero-crossing Signal Error	Cd	Abnormal Electrical Level of Selected Port
F3	Outdoor Ambient Temperature Sensor Error	EE	Memory Chip Read and Write Error
E3	Refrigerant Lacking Protection	—	—

6.2.2 Table of Error Codes of Indoor Unit

Error Code	Content	Error Code	Content
E0	Indoor Fan Error	L1	Indoor Humidity Sensor Error
qA	Inverter Indoor Fan Drive Current Detecting Circuit Error	qC	Main Control and Inverter Indoor Fan Drive Communication Error
C1	Indoor Ambient Temperature Sensor Error	qd	Inverter Indoor Fan Drive Module High Temperature Protection

Error Code	Content	Error Code	Content
C2	Indoor Evaporator Middle Temperature Sensor Error	qE	Inverter Indoor Fan Drive Module Temperature Sensor Error
E9	IDU Water Full Protection	qF	Inverter Indoor Fan Drive Storage Chip Error
CJ	IDU Jumper Cap Error	qH	Inverter Indoor Fan Drive Charging Circuit Error
q3	Inverter Indoor Fan Drive IPM Module Protection	qL	Inverter Indoor Fan Drive AC Input Voltage Abnormal Protection
q0	Low Voltage Protection or Voltage Drop Error of Inverter Indoor Fan Drive DC Bus	qo	Inverter Indoor Fan Drive Electric Box Temperature Sensor Error
q1	High Voltage Protection of Inverter Indoor Fan Drive DC Bus	qp	Inverter Indoor Fan Drive AC Input Zero-crossing Protection
q2	Inverter Indoor Fan AC Current Protection (input side)	C0	Communication Error between Indoor Unit and Wired Controller
q4	Inverter Indoor Fan Drive PFC Protection	qb	Inverter Indoor Fan Non-synchronism Protection
q5	Inverter Indoor Fan Startup Failure	CP	Multiple Master Wired Controllers Error

Error Code	Content	Error Code	Content
q6	Inverter Indoor Fan Out-of-phase Protection	L5	Wired Controller Power Supply Overcurrent Protection
q7	Inverter Indoor Fan Drive Module Reset	L7	Group-controlled IDU Series Inconsistency
q8	Inverter Indoor Fan Overcurrent Protection	CE	Wired Controller Temperature Sensor Error
q9	Inverter Indoor Fan Power Protection	dH	Wired Controller Circuit Board Error
L4	Wired Controller Power Supply Circuit Failure	Lb	Group-controlled IDU Inconsistency of Reheat Dehumidification System
L6	Group-controlled IDU Quantity Inconsistency	—	—

6.2.3 Table of Status Codes

Status Code	Content	Status Code	Content
CL	Auto clean	d1	DRED operation mode 1
Fo	Refrigerant recycle mode	d2	DRED operation mode 2
H1	Ordinary defrosting status	d3	DRED operation mode 3



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