daitsu

USER MANUAL

WIRED CONTROLLER

WIFI APP

Android IOS

Series

Compact 4

Model

DS-80GMV-COMPACT-4_DOS-80GMV-COMPACT-4
DS-100GMV-COMPACT-4_DOS-100GMV-COMPACT-4

To Users

Thank you for selecting Daitsu 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 responsibility 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.
Infrared receive	Receive the infrared signal sent from the remote controller.

Contents

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

- The power supply for all indoor units must be unified.
- Prohibit installing the wired controller at wet or sunshine places.
- Do not knock, throw or frequently disassemble the wired controller.
- Do not operate the wired controller with wet hands.
- When two wired controllers control one (or more) indoor unit(s), the address of wired controller should be different.
- 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.

◆ Please pay attention to below items when matching with VRF unit:

- 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.
- 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.
- 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.
- 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.
- System mode priority defaults to master-slave mode, and only certain units have other system mode priorities.

◆ Hereby, Our company, declares that this product is in compliance with the essential requirement and other relevant provisions of RE Directive 2014/53/EU. Wireless frequency range: 2412MHz - 2472MHz. Maximum Transmit Power: 18dBm.

3 Display

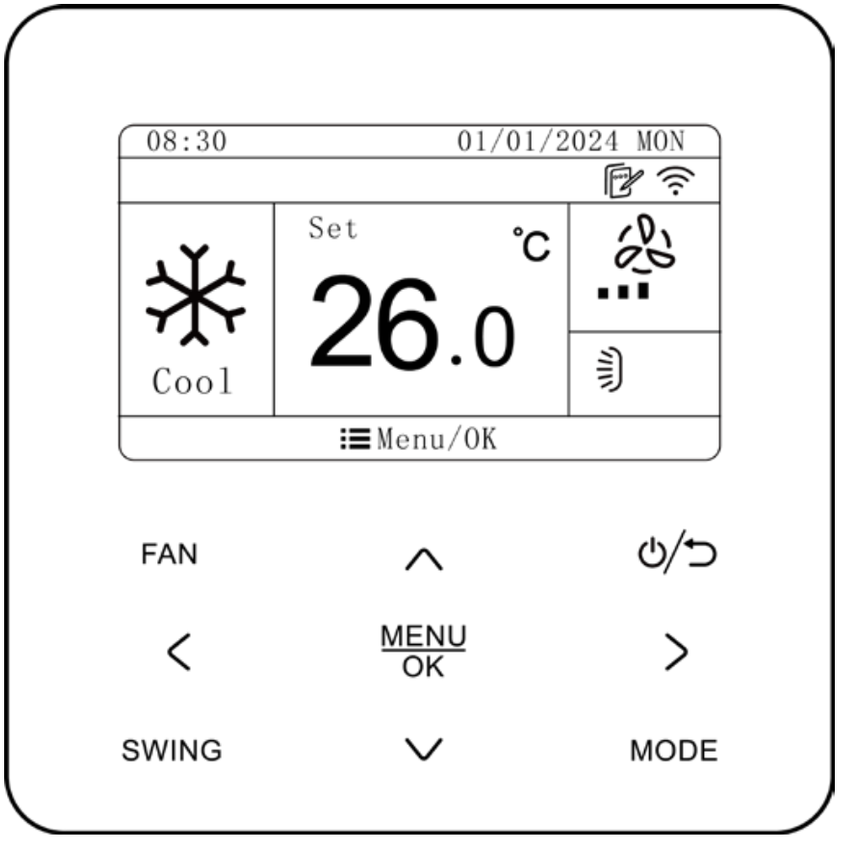


Fig. 3.1 Appearance of wired controller

3.1 LCD of Wired Controller

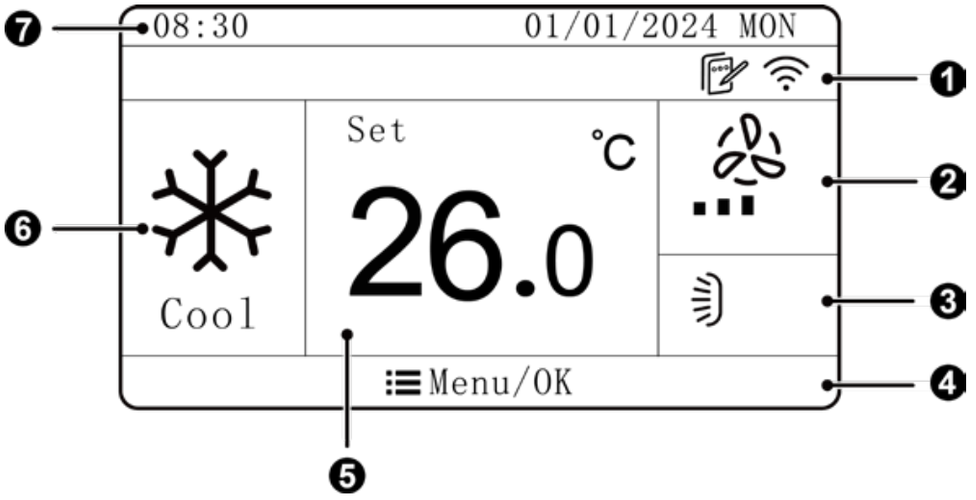


Fig. 3.2 LCD graphics of wired controller

3.2 LCD Display Instruction

Table 3.1 LCD display instruction

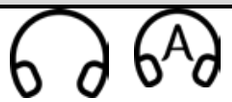
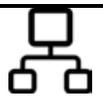
No.	Name	Instruction
4	Button prompt	Display the function of MENU/OK button at
5	Temperature display	It shows the value of temperature (If the wired controller is controlling a fresh air indoor unit,
7	Clock display	It display the date and the time. When it's locating the indoor unit, it displays the project

No.	Name	Instruction
NOTE: When wired controller is connected with different indoor units, some functions will be different.		

3.3 Instruction of Status Column Icons

Table 3.2 Instruction of Status Column Icon

No.	Symbols	Name	Instructions
1		Air *	Air status(indoor unit optional function)
2		Remove card	The card for access control is removed
3		Clean	Remind to clean the filter
4		Child lock	Child lock status
5		Error	There are errors for the unit
6		Health *	Health function (indoor unit optional function)
7		Defrosting	Defrosting status of outdoor unit
8		Master	Current wired controller connects the master indoor unit.
9		Power off memory	Memory status (when power recovered, indoor unit will resume previous setting status)
10		Absence	Absence is displayed when this function is turned on.

No.	Symbols	Name	Instructions
11		Quiet status	Quiet status (including quiet and auto quiet modes)
12		Energy-saving	Energy-saving status of indoor unit
13		Shield	Shielding status
14		Slave wired controller	Slave wired controller (address of wired controller is 02).
15		Sleep	Sleep status
16		Time	Timer status is displayed
17		X-fan	X-fan is displayed when this function is set.
18		Group control	One wired controller controls multiple indoor units.
19		Valid operation	It's displayed for valid operation
20		WiFi	WiFi status(If the wired controller has no WiFi function, it displays only when the unit connected to "Unit WiFi").
21		Independent swing*	Independent swing status
22		Auto clean *	Auto clean status

No.	Symbols	Name	Instructions
23	T	Setback	Setback function status
24	!	Warning	Warning status
25	AUX	Aux. Heat*	Aux. Heat is available
26	AUX ON		Aux. Heat operating
NOTE: When wired controller is connected with different indoor units, some functions will be different.			

4 Button

4.1 Button Silk Screen

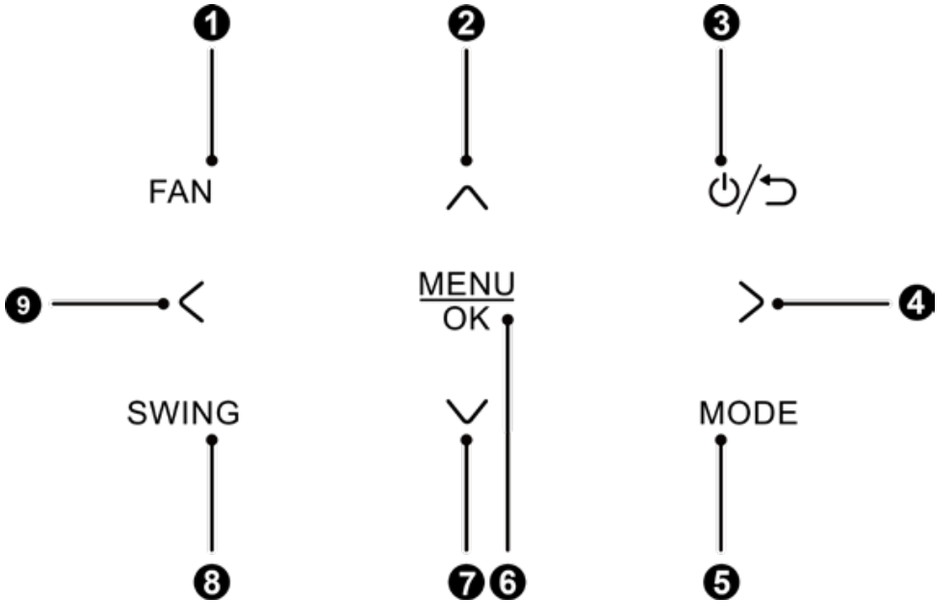


Fig. 4.1 Button silk screen

4.2 Buttons Function Instruction

Table 4.1 Buttons function instruction

No.	Name	Function
1	FAN	Switch fan speeds: auto, low, medium-low, medium, Medium-high and high
2		(1) Set operation temperature for the indoor unit. (2) Move cursor. (3) Set and check parameters.
7		
3		On/off button for turn on or turn off the unit; back button for return to previous page.
9		(1) Turn pages, and switch and select the target; (2) Move the cursor; (3) Set and check parameters.
4		
5	MODE	Switch operating modes: Auto, Cool, Dry, Fan, Heat, Floor, 3D Heat, etc.
6	MENU/OK	Select mode and confirm parameters.
8	SWING	Set the swing status of central air conditioners.

5 Installation and Commissioning

Unit: mm

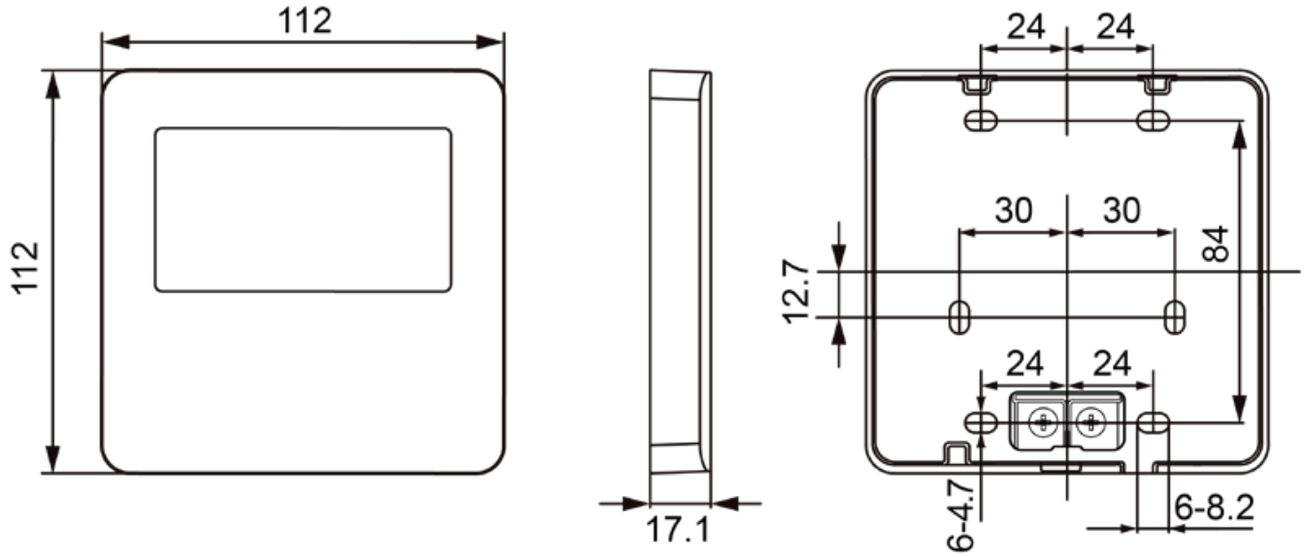


Fig. 5.1 Dimension of Wired Controller

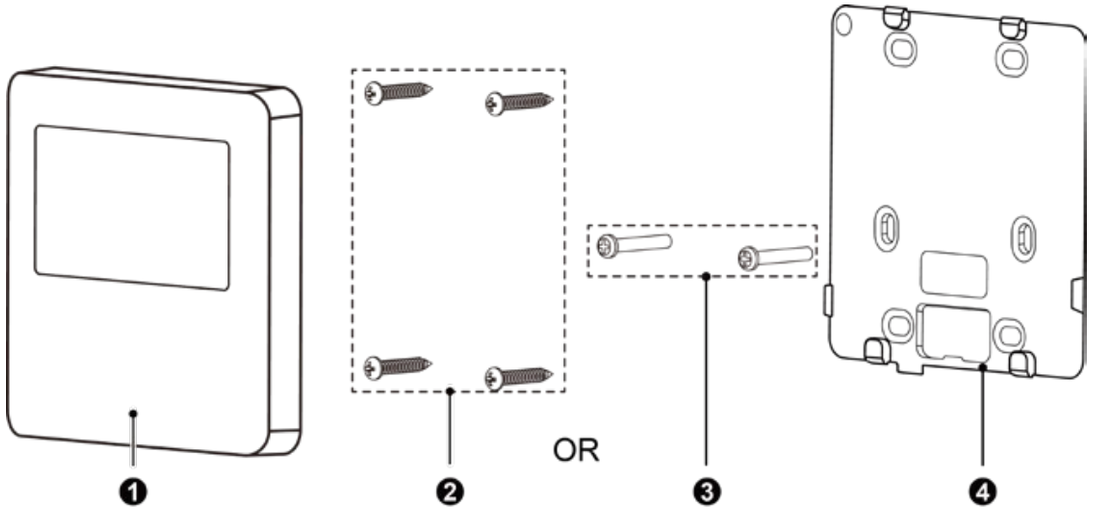


Fig. 5.2 Parts and Components of Wired Controller

No.	1	2	3	4
Name	Panel of wired controller	Self-tapping screw ST3.9×25 MA	Screw M4×25	Soleplate of wired controller
QTY	1	4	2	1

5.1 Instruction of Wired Controller

5.1.1 Requirements for Model Selection of Communication Wire

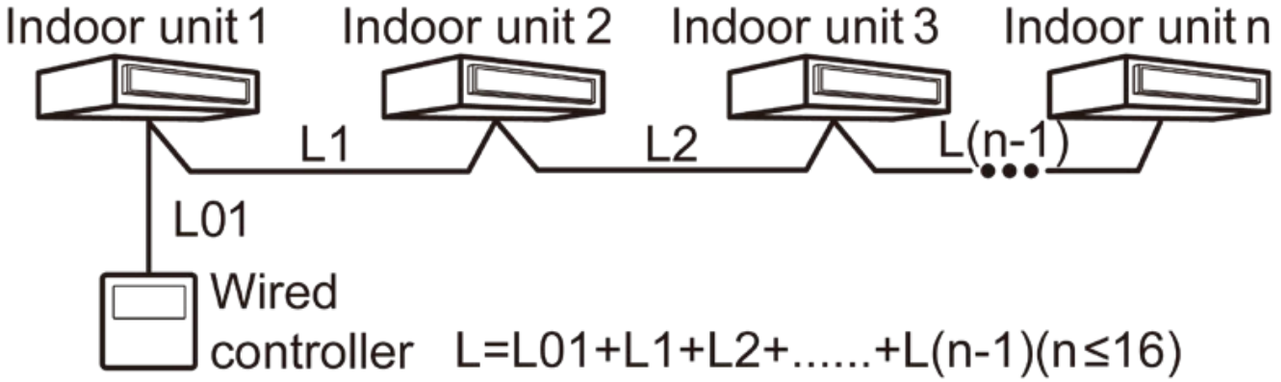


Fig. 5.3 Length of communication wire

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≤250m (L≤820-1/5 feet)	2×0.75mm^2 ~2×1.25mm^2 (2×AWG18~ 2×AWG16)	IEC 60227-5:2007	(1) Total length of communication line can't exceed 250m (820-1/5feet). (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.

5.1.2 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.

5.1.3 Requirements for Wired Connection

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

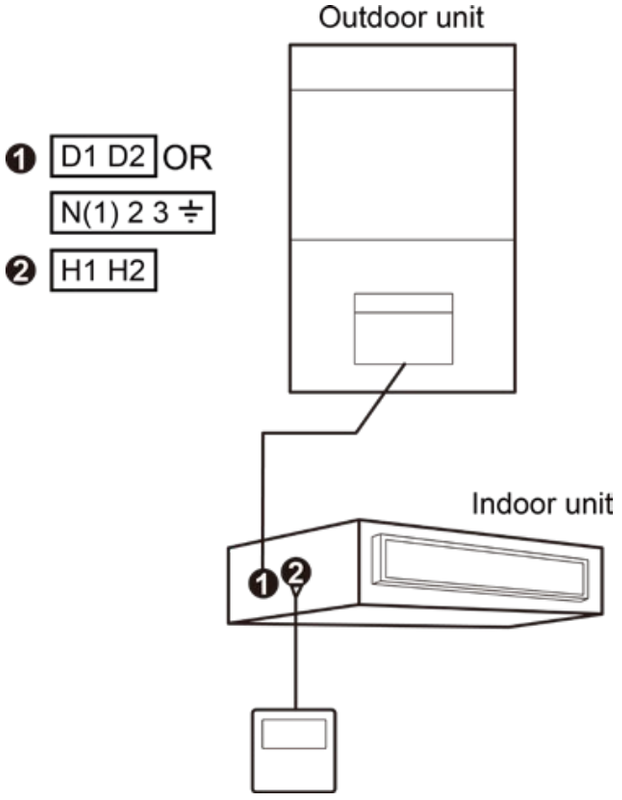


Fig. 5.4 One wired controller controls one indoor unit

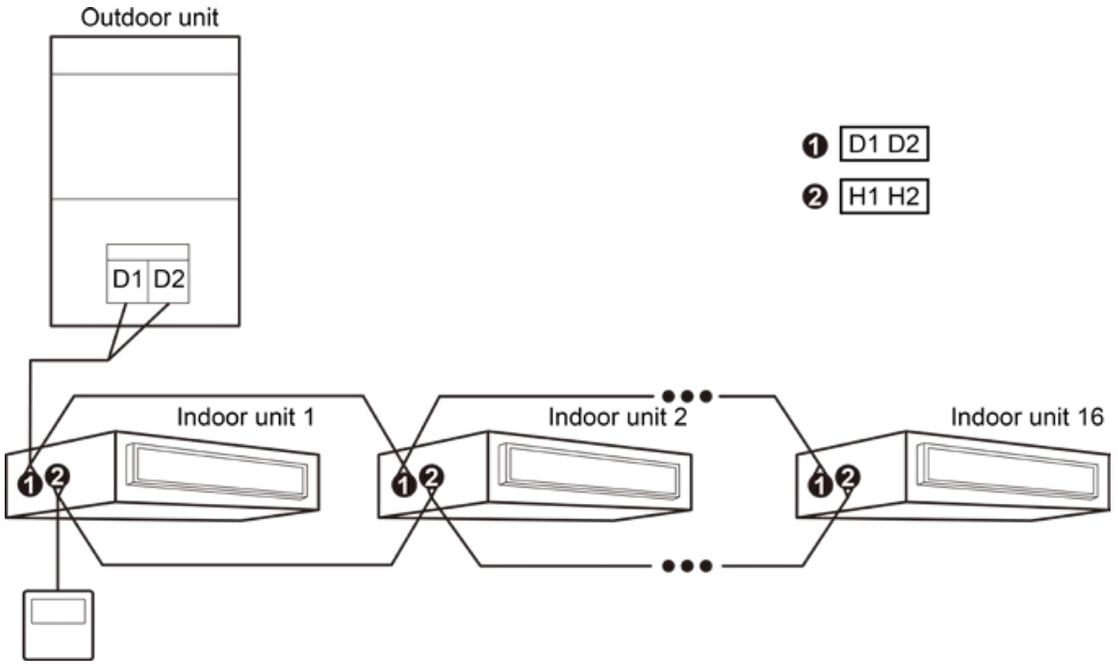


Fig. 5.5 One wired controller controls multiple VRF indoor units simultaneously

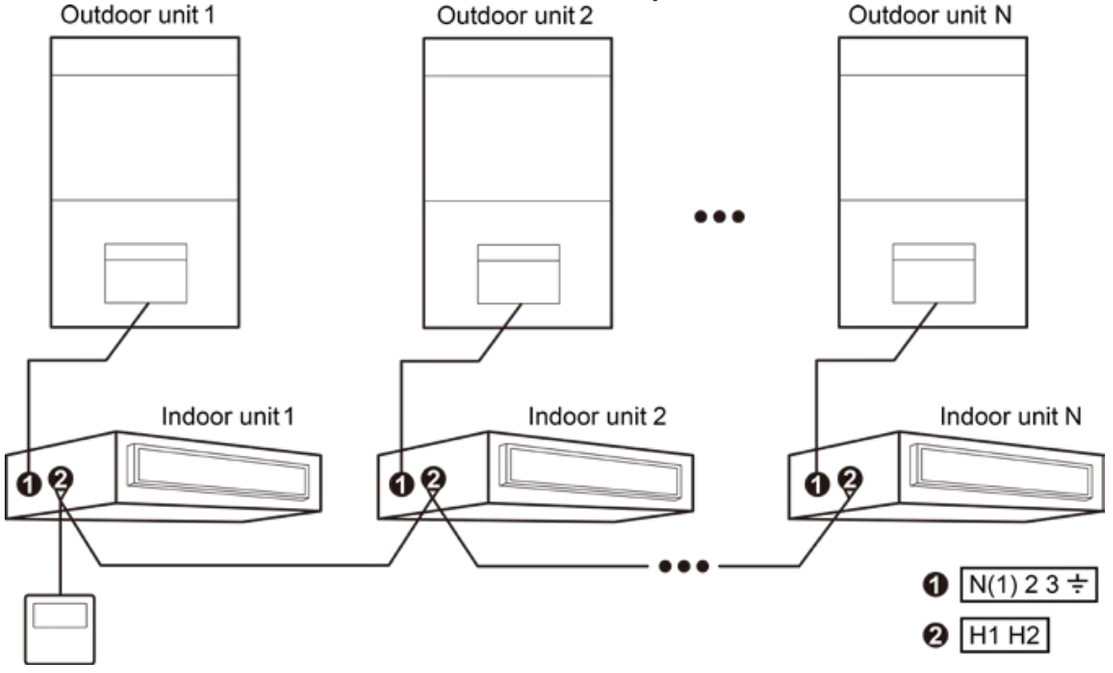


Fig. 5.6 One wired controller controls multiple Packaged Unit simultaneously

Instruction for wire connection:

(1) The wiring methods in fig. 5.4 and fig. 5.6 can be adopted for the wired controller connecting Packaged Unit. It's suggested that the length of communication wire between devices should be 8m.

(2) The wiring methods in fig. 5.4 and fig. 5.5 can be adopted for the wired controller connecting VRF unit. It's suggested that the average length of communication wire between devices should be 15m.

(3) Only the wiring methods in fig. 5.4 can be adopted for the wired controller connecting Compact Type unit or Air-cooled Packaged unit, that is, one wired controller can control only one indoor unit, cannot control multiple indoor units of different systems.

(4) When one wired controller controls multiple indoor units simultaneously, the wired controller can connect to any one indoor unit, but the connected indoor unit must be the same series indoor unit. The total quantity of indoor unit controlled by wired controller can't exceed 16 sets, and the connected indoor unit must be within the same indoor unit's network. Wire controller must set quantity of group control indoor units. Please refer to 5.2.2 Parameter Setting.

(5) The terminal of the wire controller is non-polarized and cannot be connected to strong electric.

NOTE: Wired controller XE7C-23/HC and wired controller XE7C-23/HC1 only supports one (or more) indoor unit(s) controlled by one wired controller.

5.1.4 Installation

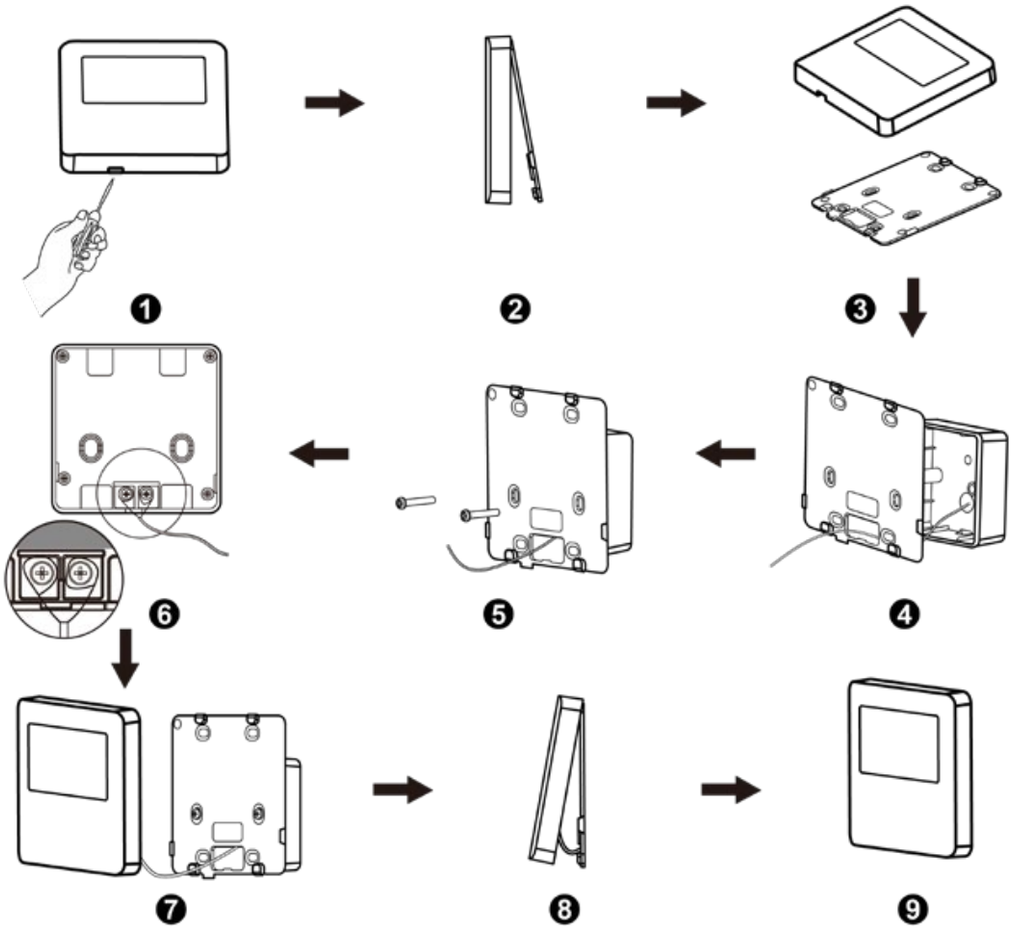


Fig. 5.7 Installation of Wired Controller

Fig. 5.7 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) Pull out the 2-core twisted pair inside the installation hole in the

wall, and thread the wire through the hole in the back of soleplate of wired controller;

(3) Stick the soleplate of wired controller on the wall, and use Self-tapping Screw ST3.9×25 MA or screw M4×25 to fix the soleplate with the installation hole of wall;

(4) Connect the 2-core twisted pair to wiring terminal H1 and H2, and then tighten the screw;

(5) Arrange the wires in the back of panel, and then buckle the panel of wired controller with the soleplate of wired controller.

5.1.5 Disassembly

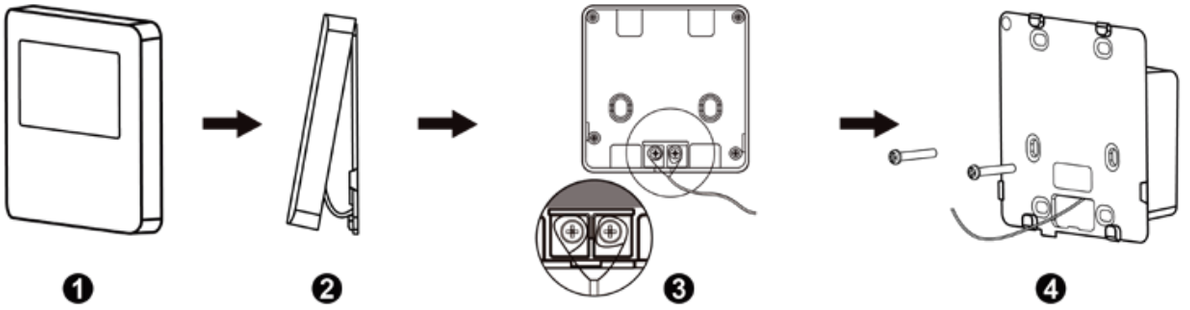


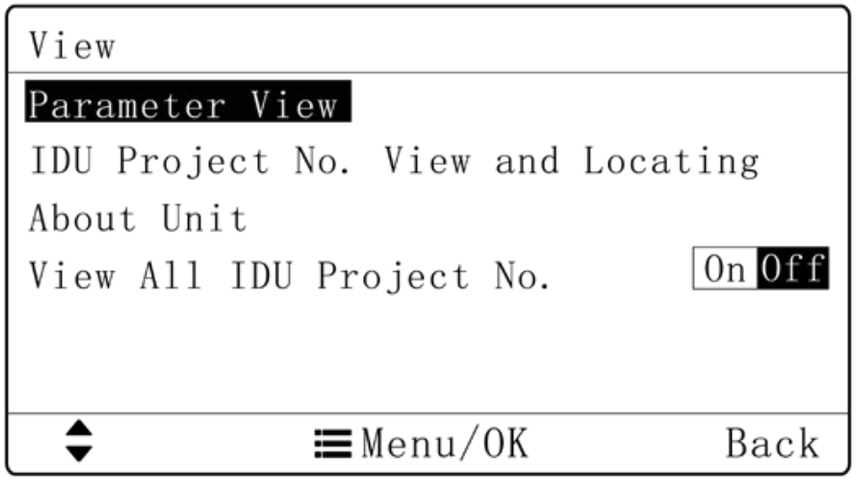
Fig. 5.8 Disassembly of wired controller

5.2 Engineering Debugging

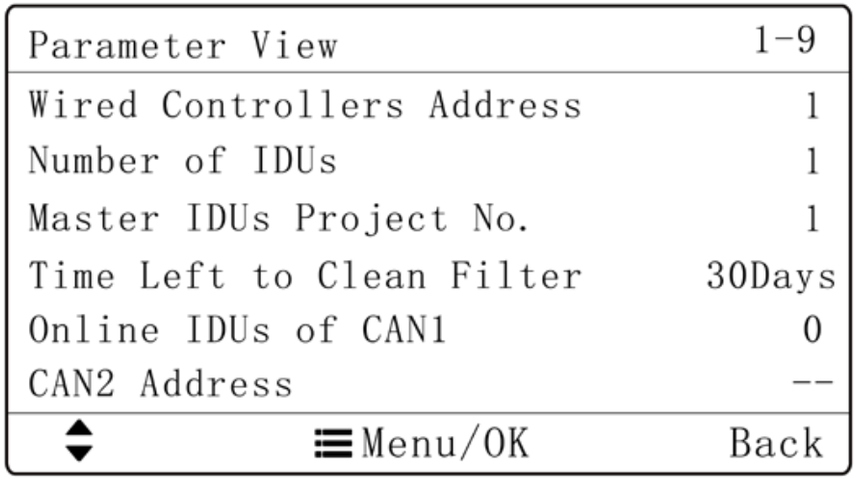
5.2.1 Parameter View

Under on or off status, view unit's parameters.

Press "MENU/OK" button on the home page to enter into the menu page to select "View" to go to view page shown as below:



Select "Parameter View" at the view page to enter into parameter view page shown as below.



NOTES:

① Under parameter viewing status, the signal from remote controller is invalid.

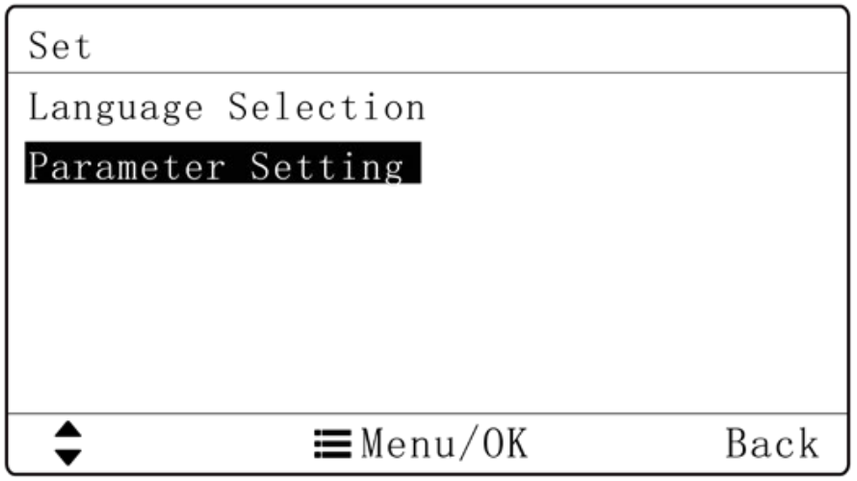
② When the parameter is invalid, it will display "--".

5.2.2 Parameters Setting

Parameters can be set under on or off status.

Press "MENU/OK" button on the homepage to enter into menu

page to select "Set" to go to set page. Select "Parameter Setting" at the set page to go into parameter setting page. See the figure as below.



After that, press "∧" or "∨" button to switch the items. Hold it can switch it quickly.

When selecting the parameter, press "<" or ">" to switch the setting value. Press "MENU/OK" button to save corresponding setting items. If the setting can't be confirmed, switching the item can restore the previous setting value.

NOTES:

Under parameter setting status, the signal from remote controller is invalid.

6 Operation Instruction

6.1 ON/OFF

Press "⏻/⮌" button to turn on the air conditioner.

Press "⏻/⮌" button again to stop operation.

ON and OFF interfaces are shown as below:

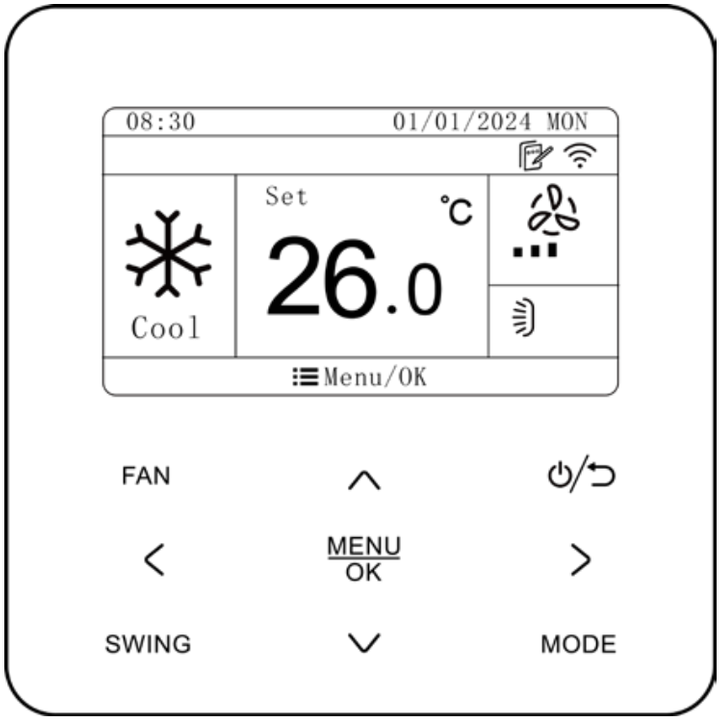


Fig. 6.1 ON interface

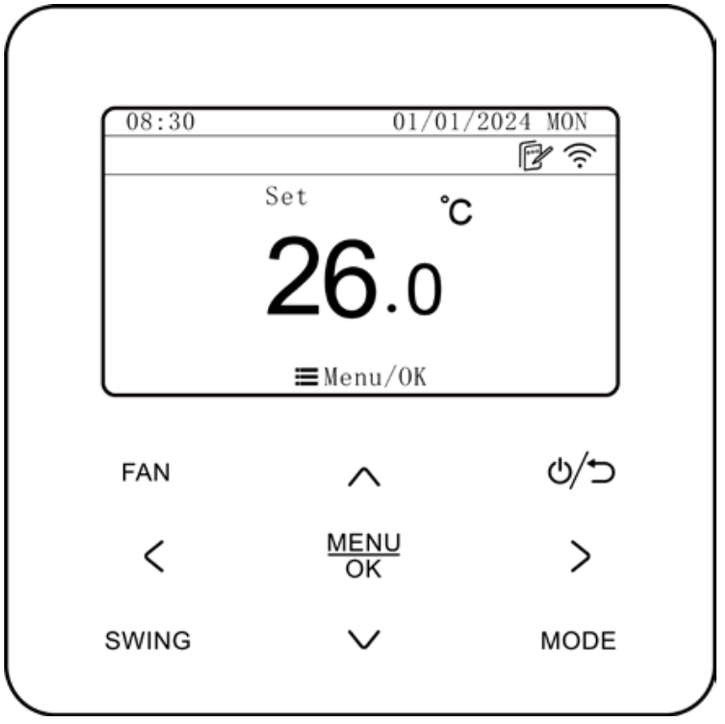
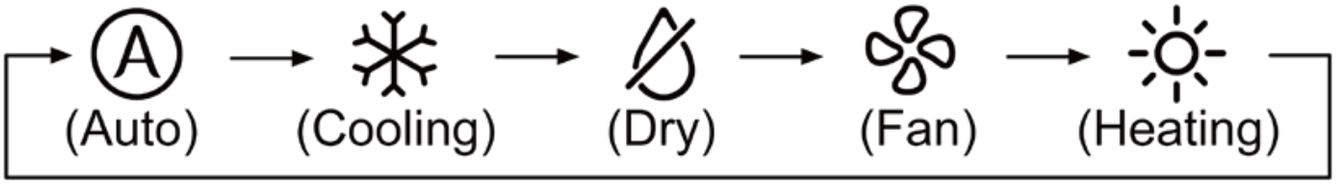


Fig. 6.2 OFF interface

6.2 Mode Setting

Under On status, pressing "MODE" button can set modes circularly:



NOTES:

① The available modes are different for different models. The wired controller will automatically select mode setting range according to the model of indoor unit.

② When the wired controller controls VRF unit and the system

mode priority is the master-slave mode, only the master indoor unit can set the auto mode.

③ Under Auto mode, if the indoor unit is cooling, the icons " Ⓐ " and "❄" will light up; if the indoor unit is Heating, the icons " Ⓐ " and "☼" will light up.

6.3 Temperature Setting

Press " ∧ " or " ∨ " button under on status to increase or decrease set temperature by 0.5°C/1°C or 1°F; hold "∧" or "∨" button to increase or decrease set temperature by 0.5°C/1°C or 1°F every 0.3s. Please refer to 6.7.4 for the setting method of the temperature setting interval in Celsius.

Under Dry mode, when temperature is 16°C or 61°F, continuously press " ∨ " button twice to decrease temperature to 12°C or 54°F (when save function is activated, the temperature under Dry mode can't be adjusted to 12°C or 54°F).

When the control method under Dry mode is humidity control, press "∧" or "∨" button to adjust the set humidity at 5% intervals. The humidity setting range is 45%~75%, and the default value is 65%. The humidity control method under Dry mode can only be set for the unit with this function. Please refer to 5.2.2 Parameter Setting for the setting method.

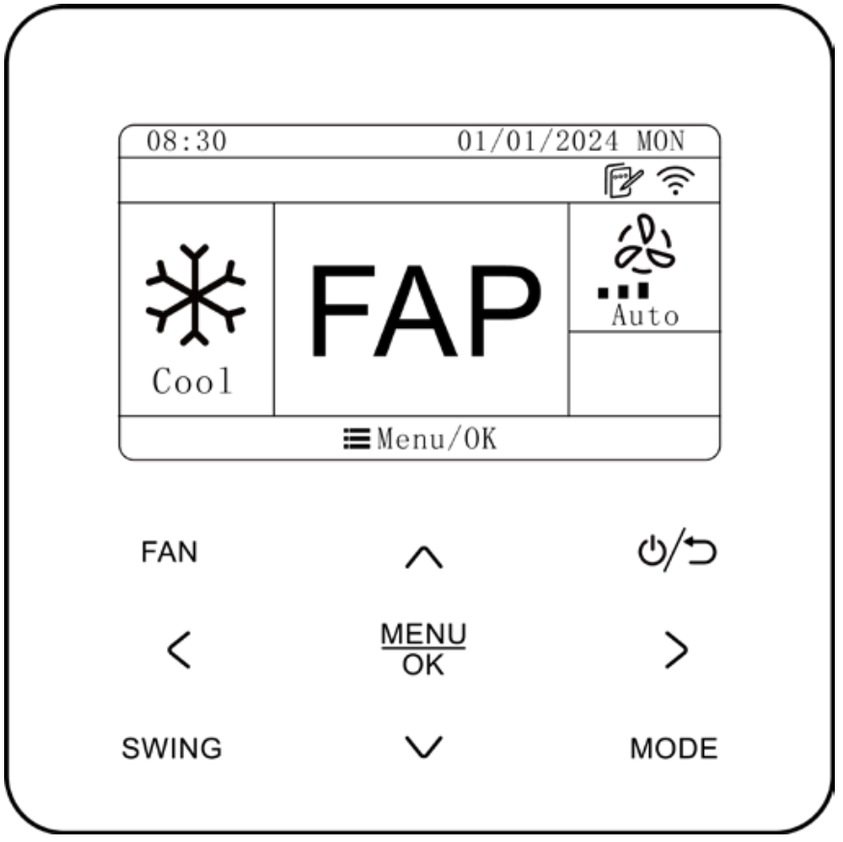
NOTES:

① Only when the wired controller controls Packaged Unit indoor units, the setting temperature can be adjusted by pressing "∧"

or "∨" under Auto mode.

② When Absence function is activated, the setting temperature cannot be adjusted by pressing "∧" or "∨".

③ When the wired controller is connected with a Fresh Air Indoor Unit, fresh air indoor unit code "FAP" will be displayed as shown below. Setting temperature won't be displayed and can't be adjusted via "∧" or "∨" button. The air outlet temperature in cooling or heating can only be set in the parameter setting status.



6.4 Fan Setting

Under On status, pressing "FAN" button can set fan speeds circularly as:

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.

6.5 Swing Setting

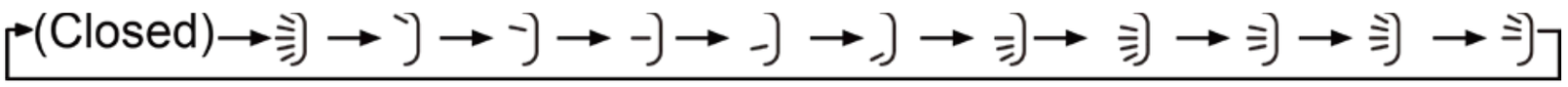
(1) Up&down Swing :

The up&down swing has two modes: simple swing and fixed-angle swing. Select the fixed-angle swing on the function page, and press "〈" or "〉" buttons to turn on or turn off the fixed-angle swing. Simple swing and fixed-angle swing can be switched.

Under on status, press "SWING" button on the homepage to enter into swing setting:

1) When the simple swing is set, press "SWING" button to turn on or turn off the up&down swing.

2) When the fixed-angle swing is set, press "SWING" button to switch swing statuses circularly as below:

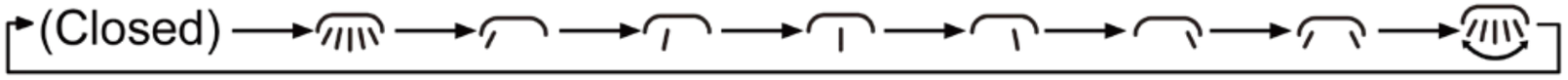


(2) Left&right swing*:

The left&right swing has two modes: simple swing and fixed-angle swing. Select the fixed-angle swing on the function page, and press "<" and ">" buttons to turn on or turn off the fixed-angle swing. Simple swing and fixed-angle swing can be switched.

Under on status, press "SWING" button on the homepage to enter into swing setting, and then press "<" and ">" button to switch to the left&right swing setting:

1) When the simple swing is set, press "SWING" button to turn on or turn off the left&right swing.
2) When the fixed-angle swing is set, press "SWING" button to switch swing statuses circularly as below:



6.6 Function Setting

Press "MENU/OK" button on the homepage to enter menu page and then select "Function" to go to function page. See the figure as below.

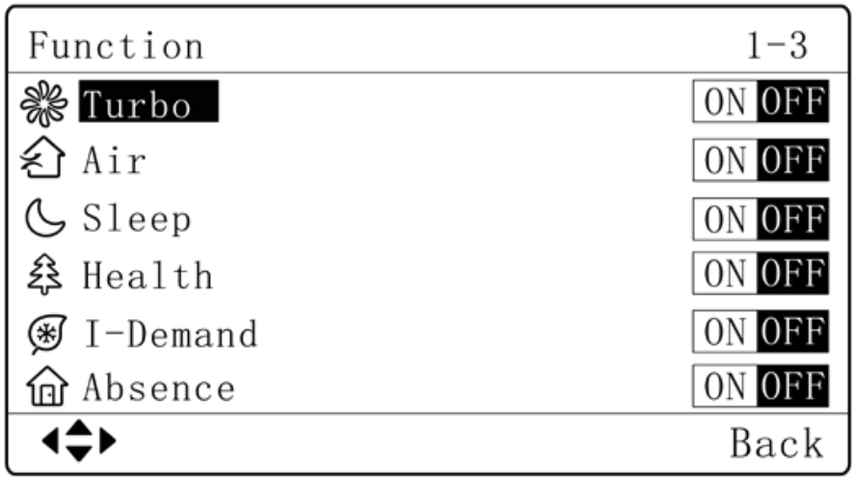


Fig. 6.3 Function page

Press "∧" or "∨" button to switch the items; press "<" and ">" button to turn on or turn off corresponding function. "ON" indicates the function is turned on; "OFF" indicates the function turned off; press "⏻/⮌" button to turn back to previous page.

Some functions are with more parameters and "MENU/OK" button can be used for setting detailed parameters.

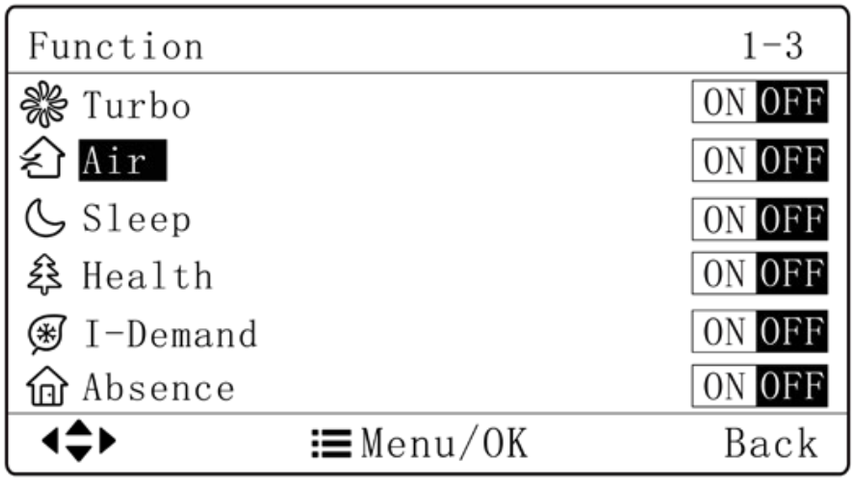


Fig. 6.4 Function with detailed setting

As for some functions, only the on/off status is displayed at the switch button. It needs to press "MENU/OK" button to enter into detailed setting:

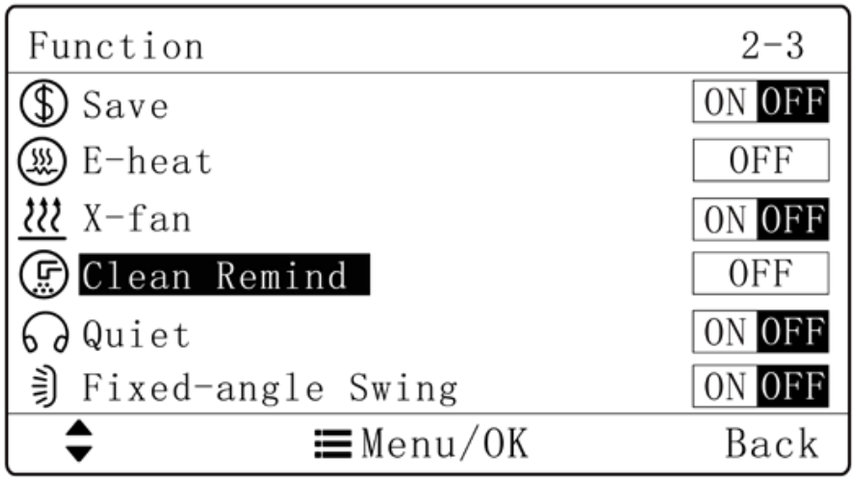


Fig. 6.5 Functions whose on/off status is only displayed

NOTE:

The function under some circumstances is invalid and displayed in grey. Press "∧" or "∨" button to skip this function.

6.6.1 Turbo Setting

Turbo fan Function: Turn on the highest fan speed, and then turbo fan will be displayed on the homepage.

Turn on turbo fan Function: Under on status, select turbo fan on the function page and press "<" or ">" button to turn on or turn off the turbo fan. When turbo fan is turned on, "turbo fan" will be displayed at the fan speed area on the homepage.

Cancel turbo fan Function: Same as the method used for turning on the turbo Fan Function.

You can also press "FAN" button on the home page to cancel the turbo fan and then switch to the auto fan.

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.

6.6.2 Save Setting

Save function: Air conditioner can be operated in small temperature range by setting the minimum temperature under Cooling and Dry modes and setting maximum temperature under Heating, 3D Heating and Space Heating modes. Thus, energy saving can be realized.

Turn on save mode: Under on status, select save function on the function page and press "<" or ">" button to turn on or turn off the save function.

Cancel save mode: Same as the method used for turning on the save function.

When selecting save function on the function page, press "MENU/OK" button to set temperature for save function. The display is as below:

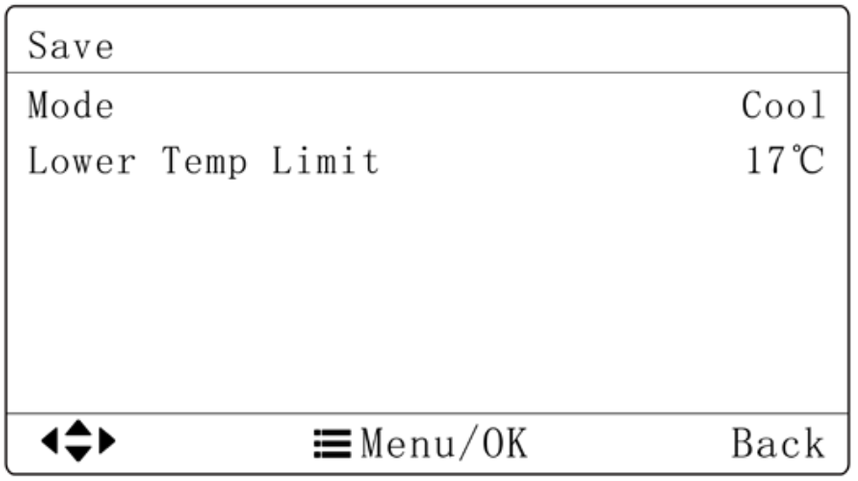


Fig. 6.6 Temperature setting for save function

Press "∧" or " ∨" button to switch items. When selecting the first item, press "<" or " >" button to switch modes; when selecting the second item, press "<" or ">" button to switch temperature lower limit and upper limit value. Press "MENU/OK" button to save the setting and then turn back to the previous page.

When save function is turned on, icon "$" is displayed under all modes at on and off statuses.

NOTE:

When the save function is turned on and then set temperature exceeds the limit value for save function, "$" icon blinks three times and then buzzer will give out two sounds successively.

6.6.3 Filter Clean Reminder Setting

Filter Clean Reminder Function: The unit will remember its own operating time. When the setting time is over, this function will remind you to clean the filer. A dirty filter will result in bad heating and cooling

performance, abnormal protection, bacteria gathering, etc.

Select "Clean Remind" on the function page and press "MENU/OK" button to go to filter clean reminder setting page. Refer to the figure as below:

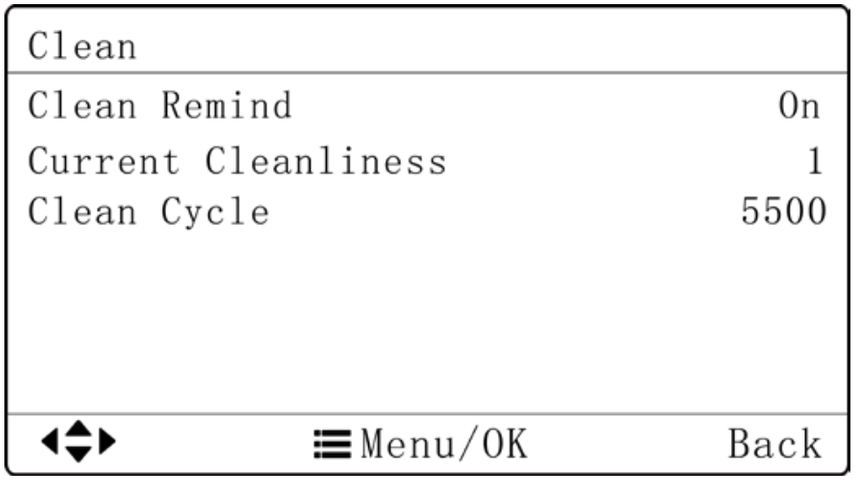


Fig. 6.7 Filter clean reminder setting

Press "∧" or "∨" button to switch items. When selecting the first item, press "<" or ">" button to turn on or turn off this function; when selecting the second item, press "<" or ">" button to switch current environmental cleanliness (switch among level 1, level 2 and level 3. There are for good, general and bad cleanliness); when selecting the third item, press "<" or ">" button to adjust the cleaning period . Press "MENU/OK" button to save the setting and then turn back to the previous page.

There are four circumstances while cleaning period Setting:

Turn off clean reminder;

Light pollution: When current cleanliness is "1", the setting range for the clean cycle is 5500h-10000h. After each pressing of ">" button,

the accumulated time will increase 500h. When the time exceeds the maximum value, it will turn back to the minimum value.

Medium pollution: When current cleanliness is "2", the setting range for the clean cycle is 1400h-5000h. After each pressing of "" button, the accumulated time will increase 400h. When the time exceeds the maximum value, it will turn back to the minimum value.

Serious pollution: When current cleanliness is "3", the setting range for the clean cycle is 100h-1000h. After each pressing of "" button, the accumulated time will increase 100h. When the time exceeds the maximum value, it will turn back to the minimum value.

NOTE:

When clean time is reached, icon "" at the status column will be displayed. The reminding will pop up at the home page to remind users to clean the filter. Click "Done" or "Skip" to cancel the display. At the same time, the accumulated time for "filter clean reminder" will be cleared and the time will be counted again.

6.6.4 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 turning on the setback function, the icon "" will be

displayed on the homepage.

Under off status, when setback function is operating, the icon "T" blinks.

As for setting related parameters of setback, it needs to go to user parameters page. Please refer to 5.2.2 parameters setting for the method.

Turn on setback function: Under on or off status, select setback function on the user parameter page, and press "<" or ">" button to turn on or turn off the setback function. Press "MENU/OK" button to save the setting.

Cancel setback function: Same as the method used for turning on the setback.

Set setback temperature:

Setback Upper Temp Limit: select "Upper Temp Limit of Setback" on the user parameters page, and press "<" or ">" button to adjust the upper temperature limit of setback function. Press "MENU/OK" button to save the setting.

Setback Lower Temp Limit: select "Lower Temp Limit of Setback" on the user parameter page, and press "<" or ">" button to adjust the lower temperature limit of setback function. Press "MENU/OK" button to save the setting.

NOTES:

① Setback function is forbidden as defaulted;

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 If you want to activate setback function, you cannot use the wired controllers of other models as the master wired controller or slave master controller.

④ When all shield function of remote monitor or central controller is turned on, the wired controller can't enter or exits from the setback function.

⑤ When the unit is operating at setback function, the slave wired controller cannot set save function and doesn't display or receive save setting.

6.7 Universal Setting

Press "MENU/OK" button on the homepage to go to the menu page and then select "Set" to enter into set page; please refer to the figure as below:

Fig. 6.8 Set page

Below parameters can be set on the set page.

6.7.1 WiFi Function Setting

"EWPE SMART" App can be used to control wired controller and wired controller. Please scan the QR code or search "EWPE SMART+" in the application market to download and install it. When "EWPE SMART+" App is installed, register the account and add the device to achieve long-distance control and LAN control of Daitsu smart home appliances.

App can only set some common functions of wired controller: ON/OFF, mode, set temperature, fan speed, etc.

When using the App for the first time, please reset the WiFi function of wired controller (Reset WiFi to ex-factory setting):

Reset WiFi:

Press "MENU/OK" button on the homepage to go to menu page to select "Set" to go to the set page; Select "Reset WiFi" on the set page to go to WiFi reset page. Please refer to the figure as below:

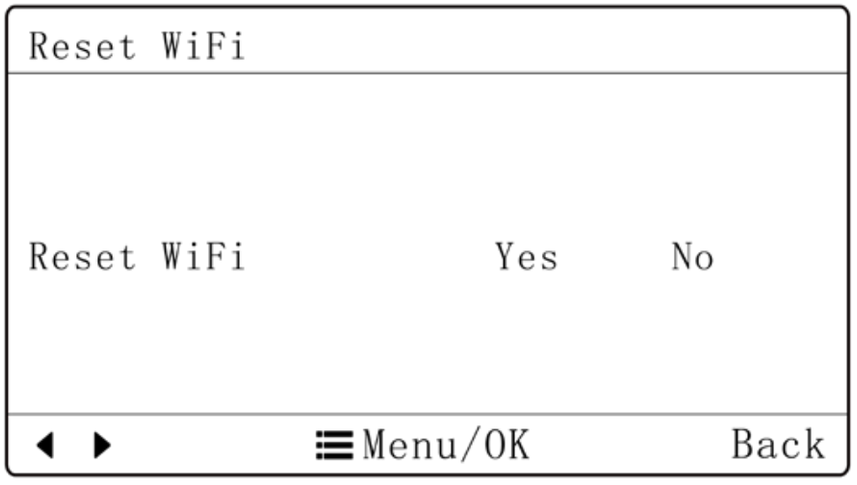


Fig. 6.9 WiFi set page

Press "<" or ">" button to select it: "yes" indicates WiFi resetting.

When "Reset WiFi" on the setting page has changed to "reset succeeded" or WiFi icon on the homepage flashes at the interval of 0.5s, WiFi resetting is succeeded. After that, add devices to the App.

NOTES:

① This function is only applicable to wired controller XE7C-23/HC .

② If the device is offline or router's name and password have been changed, please reset WiFi and add the device again.

③ WiFi networking performance is related to the distance between the wired controller and the router and the obstacles between them. During the installation process, the distance between the wired controller and the router should be as close as possible, and the obstacles should be as little as possible. If the WiFi signal is not good, use the WiFi signal enhanced router. The specific situation depends on the actual installation.

④ For more information, please refer to "Help" in App.

⑤ This function only supports 2.4GHz frequency WiFi.

⑥ 6.7.2 Time Format Setting

Users can set 12-hour time format or 24-hour time format. Press "∧"or "∨" button on the setting page to select "Time Format" and then press "<" or ">" button to select 12-hour time format or 24-hour time format.

6.7.3 System Time Setting

Select "Clock" item on the setting page and then press "MENU/OK" button to go to time setting page. See the figure as below:

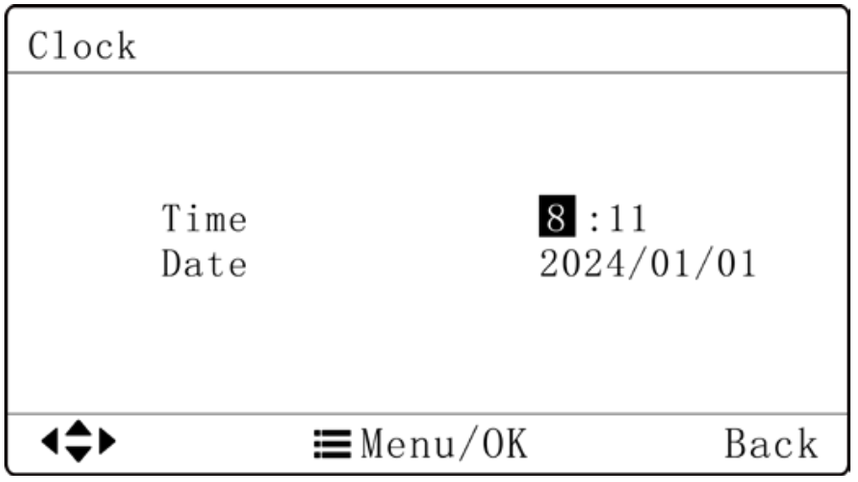


Fig. 6.10 Clock setting page

Press "<" or ">" button to select setting items: hour, minute, year, month and day; press "∧" or "∨" button to set the value. When setting is finished, press "MENU/OK" button to save the setting.

6.7.4 Temperature Setting Precision(°C)

Users can set the temperature precision as 0.5°C or 1°C. Press "∧"or "∨" button to select "Temp Setting Precision(°C)" on the setting page and then press "<" or ">" button to select two different temperature precision.

6.7.5 Temperature Unit Setting

Users can set the temperature unit on the wired controller as °C or °F. Press "∧"or "∨" button to select "°C/°F" on the setting page; press "<" or ">" button to select °C or °F.

6.7.6 Display Language Setting

Users can select the language on the setting page. Press "∧" or " ∨ " button to select "Language Selection"; press "MENU/OK" button to go to language setting page. Press "∧"or "∨" button to select the required language item. Finally, press "MENU/OK" button to save the setting.

6.8 Timer Setting

The wired controller can set four times of timer: daily timer, weekly timer, two-week timer and timer off. Users select the timer icon on the menu page and then press "∧" or "∨" button to select the timer. Press "<" or ">" button to turn on or turn off this timer. Press "MENU/OK" button to go to corresponding timer setting page. The figure is as below:

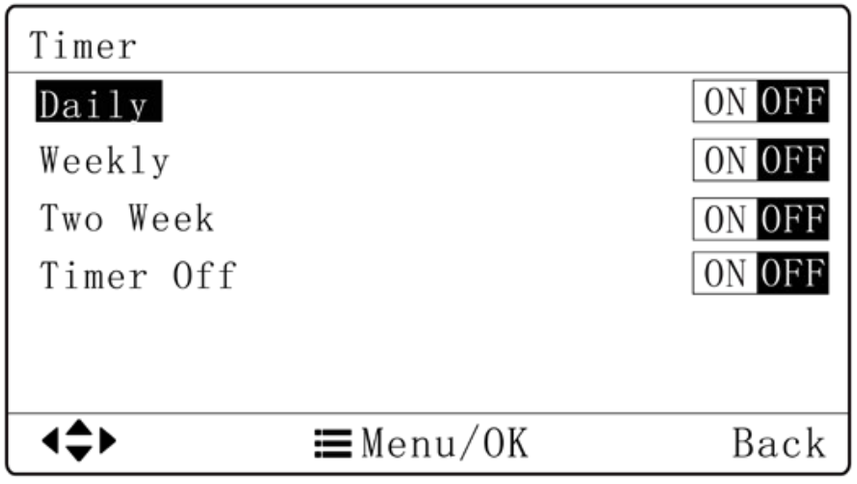


Fig. 6.11 Timer setting page

6.8.1 Daily Timer Setting

As for the daily timer setting, users can set four independent timer periods. Only when the timer period is turned on, it is valid. As

for each timer period, it can set time, on/off, working mode, set temperature and fan speed. See the figure as below:

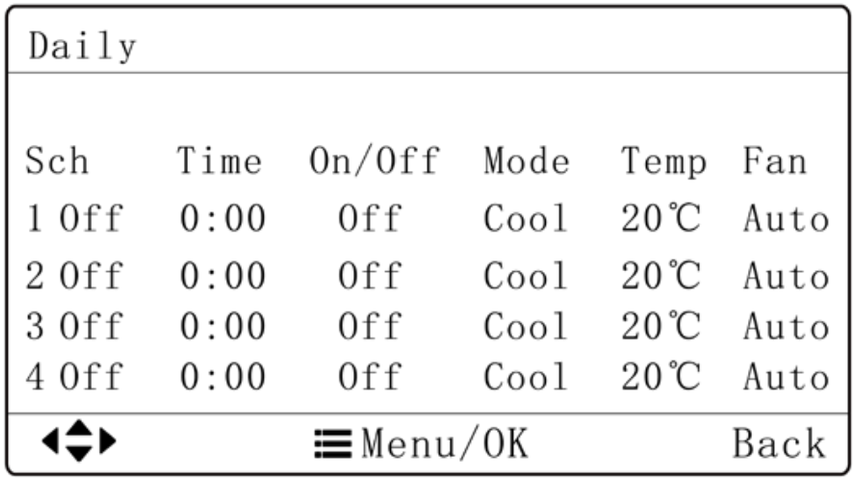
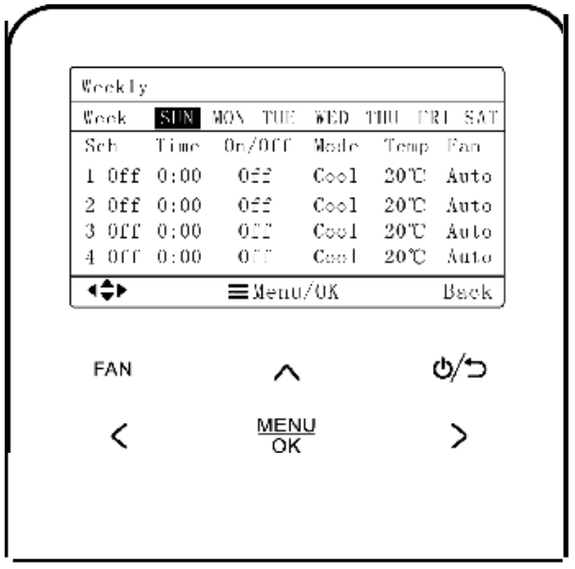


Fig. 6.12 Daily timer setting page

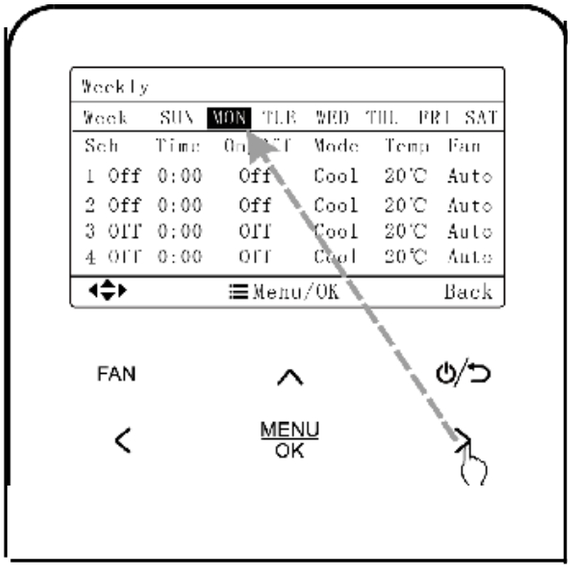
When entering to daily timer setting page, press "<" or ">" button to select the setting item, press "∧" or "∨" button to set the value and then press "MENU/OK" button to save the setting.

6.8.2 Weekly Timer Setting

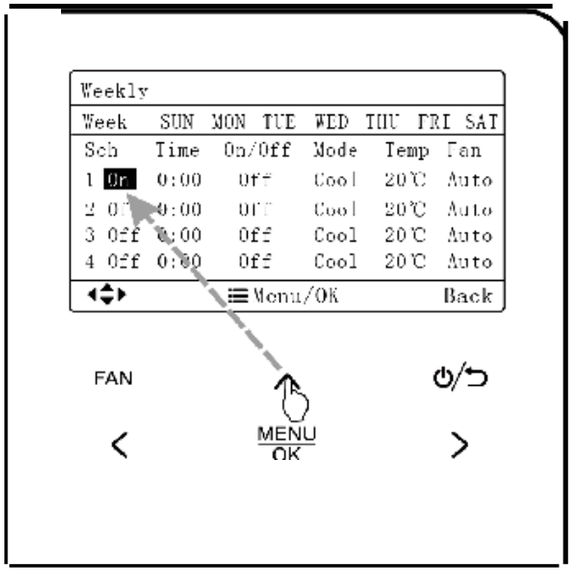
Users can set the timer for each day in a week, and they can also set 4 timer periods for each day. The unit will execute corresponding timer setting on weekly basis circularly. When entering weekly timer setting page, press "<" or ">" button to select one day in a week, press "MENU/OK" button to go to its timer setting, press "<" or ">" button to select the item, press "∧" or "∨" button again to adjust the setting content and then press "MENU/OK" button to save the setting. When all timer settings have been saved, press "⏻/⮌" button to exit from this page. Please refer to the figure as below:



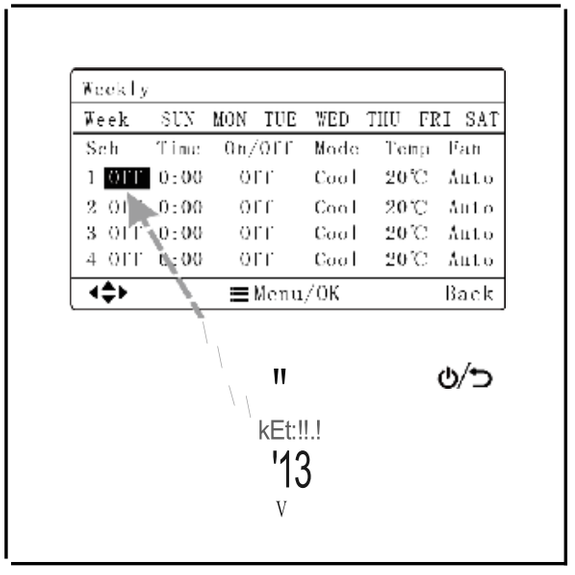
Enter weekly timer setting page



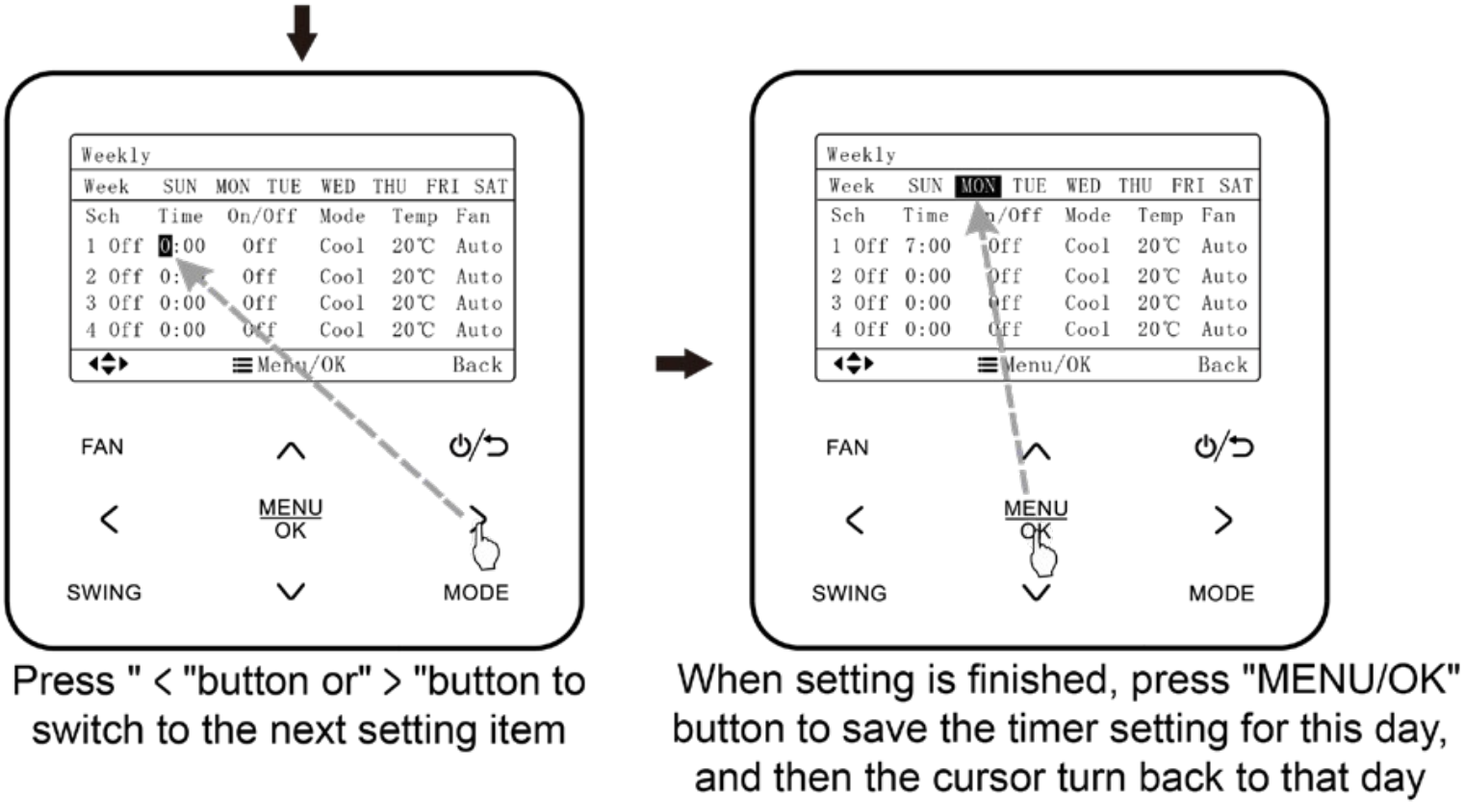
Press "< "button or" > "button
to select one day in a week to set timer



Press "A"button or"v" button to
adjust the setting content



Press "MENUIOK" button to enter
timer setting of this day



Press " < "button or" > "button to switch to the next setting item

When setting is finished, press "MENU/OK" button to save the timer setting for this day, and then the cursor turn back to that day

Fig. 6.13 Weekly timer setting

When entering to weekly timer setting page, press "<" or ">" button to select the setting item, press "∧" or "∨" button to set the value and then press "MENU/OK" button to save the setting.

6.8.3 Two-week Timer Setting

Users can set the timer for each day in two weeks and they can also set 4 timer periods for each day. The unit will execute corresponding timer setting on two-week circularly. Select "two week" on the timer interface and then press "MENU/OK" button to enter into two-week timer menu. Please refer to the figure as below.

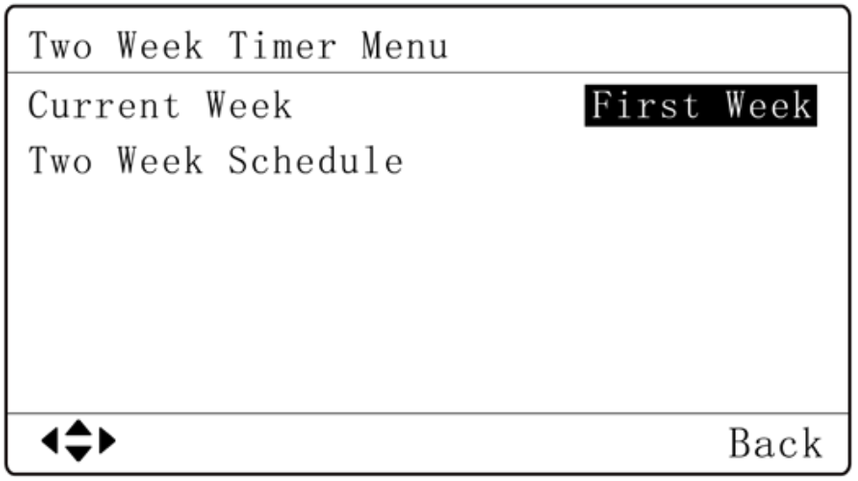


Fig. 6.14 Two-week timer menu

Select the item of "two week schedule", press "MENU/OK" button to enter into its setting page, select the item of "current week" and then press "<" or ">" button can set the current week as the first week or the second week.

When entering two-week timer page, users can press "∧" or "∨" button to select the setting items for two-week time, and then press "MENU/OK" button to go to two-week timer setting page. When entering two-week timer setting page, press "<" or ">" button to select one day in two weeks, press "MENU/OK" button to go to its timer setting, press "<" or ">" button to select the item, press "∧" or "∨" button again to adjust the setting content and then press "MENU/OK" button to save the setting. Press "⏻/⮌" button to exit from this page. Please refer to the figure as the Fig. Weekly timer setting.

6.8.4 Timer OFF Setting

As for timer OFF, the unit will be turned off after operating for "x" hours. If the timer off has been set, when the unit has been turned on every time, it will be turned off automatically after operation for "x" hours.

When entering timer OFF page, press "∧" or "∨" button to set the time for timer OFF, set the time change at the interval of 0.5h and then press "MENU/OK" button to save the setting. If not save the setting, press "⏻/⮌" button turn it back. Please refer to the figure as below.

Fig. 6.15 Timer OFF Setting Page

NOTE: The time is 12-hour format. The time on the timer setting page is displayed by 12-hour format.

7 Error Display

When there is error during operation, the temperature display zone on the wired controller will show the error code. If several errors happen at the same time, error codes will show on the display repeatedly.

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

Fig.7.1 shows the display of outdoor unit high pressure protection when unit is on.

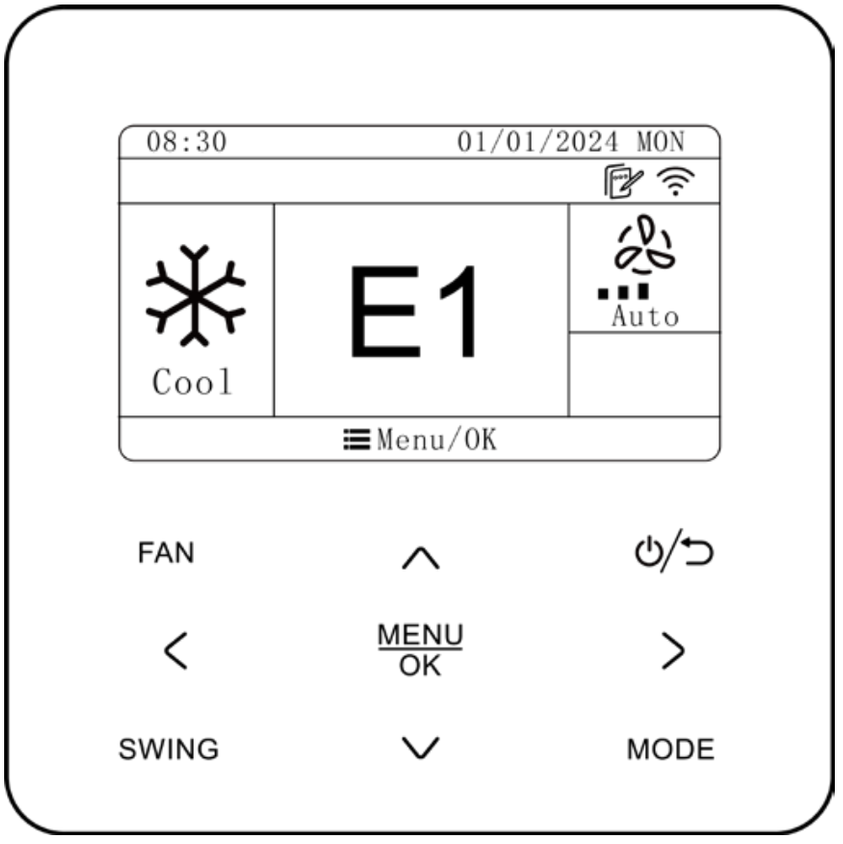


Fig. 7.1 Display of Outdoor Unit High Pressure Protection

7.1 Table of Error Codes for VRF and Compact Unit

7.1.1 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
F3	Low Pressure Sensor Error	b3	Defrosting Temperature Sensor 2 Error

Error Code	Content	Error Code	Content
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
FF	Compressor 5 Current Sensor Error	bJ	High and Low Pressure Sensors are Connected Inversely

Error Code	Content	Error Code	Content
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
J5	Compressor 5 Over-current Protection	H1	Malfunction of Fan Drive Board

Error Code	Content	Error Code	Content
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	—	—

7.1.2 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
L8	Power Insufficiency Protection	y7	Fresh Air Inflow Temperature Sensor Error

Error Code	Content	Error Code	Content
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 Quanlity 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 between IDU Main Control and IDU Drive Board
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	yb	Refrigerant Leakage
yd	Malfunction of Refrigerant Sensor	—	—

7.1.3 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

Error Code	Content	Error Code	Content
UA	Overvoltage Protection of DC Bus Bar in Power Grid Side	CH	Rated capacity is too high
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

Error Code	Content	Error Code	Content
Ud	Grid-connection driver board error	Cn	Indoor and Outdoor Network Error of Mode Exchanger
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	—	—

7.1.4 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

Error Code	Content	Error Code	Content
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
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	—	—

7.2 Table of Display Codes for Packaged Unit

7.2.1 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	Refrigerant Lacking Protection or System Low Pressure Protection
H5	Module Current Protection	E1	System High Pressure Protection
P8	Module Temperature Protection	U3	DC Bus Voltage Drop Error
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

Error Code	Content	Error Code	Content
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
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

Error Code	Content	Error Code	Content
C7	Outdoor Pipe Middle Sensor Error	A3	ODU Refrigerant Heater Failure
C9	Compressor Drive Storage Chip Error	A2	ODU Refrigerant Heater Relay Adhesion Error
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
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

Error Code	Content	Error Code	Content
b2	Subcooler Gas Inlet Temperature Sensor Error	b3	Subcooler Gas Outlet Temperature Sensor Error
b4	Subcooler Liquid Outlet Temperature Sensor Error	FJ	Air Outlet Temperature Sensor Error
EH	Electric Heater Operation Error	A6	Malfunction from Fan Driving Part to Main-control Communication
A8	Overheat Protection of Fan Radiator	A9	Fan Radiator Sensor Malfunction
AA	Fan AC Current Protection (input side)	Ab	Fan Drive Board Module Reset
AF	Fan PFC Abnormality	AH	Fan DC Busbar over Voltage Protection
AL	Fan DC Busbar under Voltage Protection	An	Fan Drive Storage Chip Malfunction
AP	Fan AC Input Voltage Abnormality	Ar	Fan Driver Board Environment Temperature Sensor Malfunction
AU	Fan Charge Circuit Malfunction	U9	Fan AC Contractor Protection or Input Zero Crossing Error
UP	Fan Power Protection	—	—

7.2.2 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
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

Error Code	Content	Error Code	Content
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
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	EA	Refrigerant Leakage
FE	Malfunction of Refrigerant Sensor	CA	Inlet Pipe Temperature Sensor of Evaporator Error

Error Code	Content	Error Code	Content
Cb	Outlet Pipe Temperature Sensor of Evaporator Error	—	—

7.2.3 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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