



# VRF SYSTEMS DUCTED UNITS WIRED CONTROLLER

## **User Manual**

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V 01/22

## To Users

Thank you for selecting Gree's 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. We have the right to make necessary revision to the product from time to time due to the reason of sales or production, and reserve the right to revise the contents without further notice.
- (4) For personal injury or property loss and damage caused by improper operation such as improper installation and debugging,

unnecessary maintenance, violation of related national laws and rules and industrial standard, and violation of this instruction manual, etc., we will bear no liability.

- (5) The final right to interpret for this instruction manual belongs to Gree Electric Appliances Inc. of Zhuhai.



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.

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# 1 SAFETY NOTICES (PLEASE BE SURE TO ABIDE )



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



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



This sign indicates that the operation 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 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.
- ◆ In one system network, you must set one indoor unit as the master indoor unit, Other indoor units are slave indoor units .
- ◆ The operation mode of the system is basing on that of master indoor unit. Master indoor unit can switch to any modes, while slave unit can't switch to the mode that is conflicting with master indoor unit.
- ◆ When master indoor unit changes mode which cause operation mode of slave indoor unit conflicts with that of system, the operation mode of slave unit will switch to the operate mode of system automatically.
- ◆ 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.

### 3 DISPLAY



Fig. 3.1 Appearance of wired controller

### 3.1 LCD OF WIRED CONTROLLER

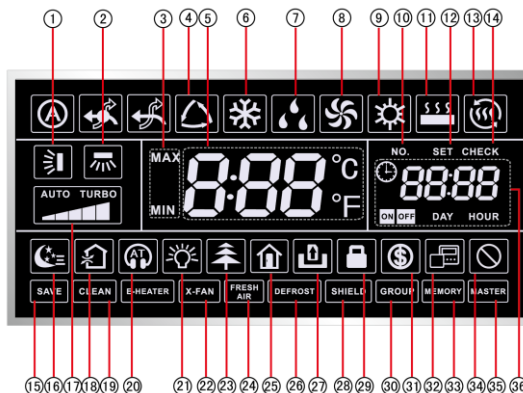

























Fig. 3.2 LCD graphics of wired controller
















## 3.2 LCD DISPLAY INSTRUCTION

Table 3.1 LCD display instruction

| No. | Symbols   | Instructions  |
|-----|---|---|
| 1   |    | Up and down swing function  |
| 2   |  * | Left and right swing function   |
| 3   |    | It's valid under Save mode and displays during setting process.<br>Temperature lower limit for Cooling: Limit the minimum temperature value under Cooling or Dry mode.<br>Temperature upper limit for Heating: Limit the maximum temperature value under Heating, Space Heating or 3D Heating mode. |
| 4   |  * | Auto mode (Under Auto mode, the indoor units will automatically select their operating mode as per the temperature change so as to make the ambient comfortable.)   |
| 5   |    | It shows the setting temperature value(In case the wired controller is controlling a Fresh Air Indoor Unit, then the temperature zone will display FAP)   |
| 6   |    | Cooling mode  |
| 7   |    | Dry mode  |
| 8   |    | Fan mode  |
| 9   |    | Heating mode  |

| No. | Symbols   | Instructions  |
|-----|---|---|
| 10  |  | When inquiring or setting project number of indoor unit, it displays "NO." icon   |
| 11  |  | Floor Heating mode (When Heating and Floor Heating simultaneously shows up, it indicates 3D Heating is activated.)                      |
| 12  |  | Display "SET" icon under parameter setting interface  |
| 13  |  | Space Heating mode  |
| 14  |  | Display "CHECK" icon under parameter view interface   |
| 15  |  | Outdoor unit operates under Save mode/upper limit of system capacitor less 100%/remote Save status                                      |
| 16  |  | Sleep status  |
| 17  |  | Current set fan speed (including auto, low speed, medium-low speed, medium speed, medium-high speed, high speed and turbo seven status) |
| 18  |  | Air status, Indoor unit optional function   |
| 19  |  | Remind to clean the filter  |
| 20  |  | Quiet status (including Quiet and Auto Quiet two status)  |
| 21  |  | Light On/Off function   |
| 22  |  | X-fan function  |
| 23  |  | Health function, Indoor unit optional function  |

## Wired Controller

| No.  | Symbols   | Instructions   |
|--|---|--|
| 24   |  | Reserved function  |
| 25   |  | Absence function   |
| 26   |  | Outdoor unit defrosting status   |
| 27   |  | Gate-control function  |
| 28   |  | Shielding status   |
| 29   |  | Child Lock status  |
| 30   |  | One wired controller controls multiple indoor units  |
| 31   |  | Save status of indoor unit   |
| 32   |  | It indicates the current wired controller is the slave wired controller (address of wired controller is 02)    |
| 33   |  | Memory status (The indoor unit resumes the original setting state after power failure and then power recovery) |
| 34   |  | Invalid operation  |
| 35   |  | Current wired controller connects master indoor unit   |
| 36   |  | Timer zone: Display system clock and timer status  |
| Note: When wired controller is connected with different indoor units, some functions will be different |   |  |

## 4 BUTTONS

### 4.1 BUTTON GRAPHICS

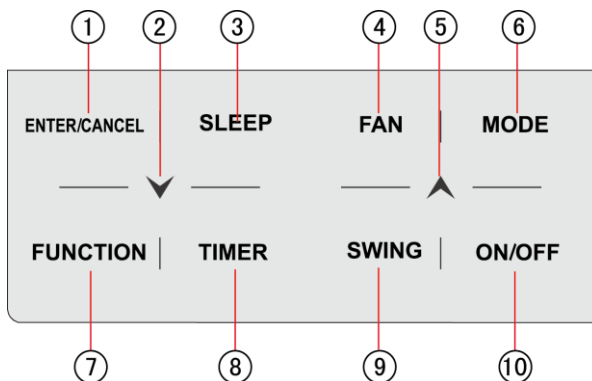






Fig. 4.1 Button graphics

### 4.2 FUNCTION INSTRUCTION OF BUTTONS

Table 4.1 Function instruction of buttons

| No. | Buttons      | Instructions  |
|-----|--------------|---|
| 1   | ENTER/CANCEL | Select and cancel function  |
| 2   | ▼            | (1) Set operating temperature of indoor unit<br>(2) Set Timer   |
| 5   | ▲            | (3) Switch Quiet mode, Air grade, Clean grade, set upper and lower temperature limit under Save mode<br>(4) Set and inquiry parameter |

## Wired Controller

| No. | Buttons   | Instructions  |
|-----|---|---|
| 3   | SLEEP   | Set Sleep mode  |
| 4   | FAN   | Switch among auto, low speed, low-medium speed, medium speed, medium-high speed, high speed and turbo status  |
| 6   | MODE  | Switch Auto, Cooling, Dry, Fan, Heating, Floor Heating, 3D Heating and Space Heating modes for indoor unit. (Note: The Floor Heating, 3D Heating and Space Heating function icon will show up when the unit has those functions.)                       |
| 7   | FUNCTION  | Switch among Air, Quiet, Light, Health, Absence, Save, Clean, and X-fan functions.  |
| 8   | TIMER   | Timer setting   |
| 9   | SWING   | Set up and down swing status  |
| 10  | ON/OFF  | Indoor unit On/Off  |
| 2+5 |  +  | Simultaneously press “  ” and “  ” for 5s to enter or cancel the Child Lock function. |

## 5 INSTALLATION AND COMMISSIONING

There're two editions of wired controller. The parts of wired controller are different.

Edition one :

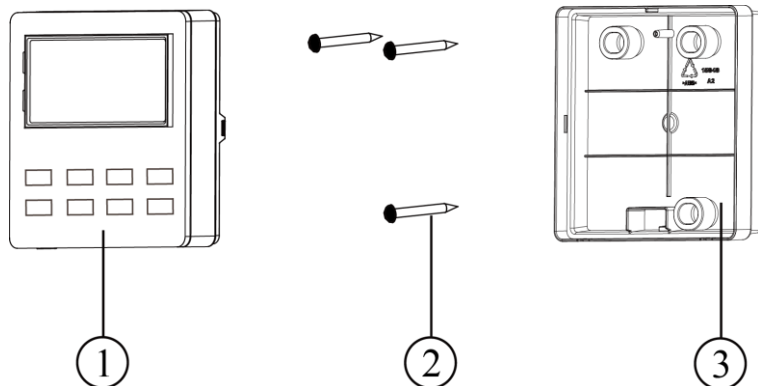
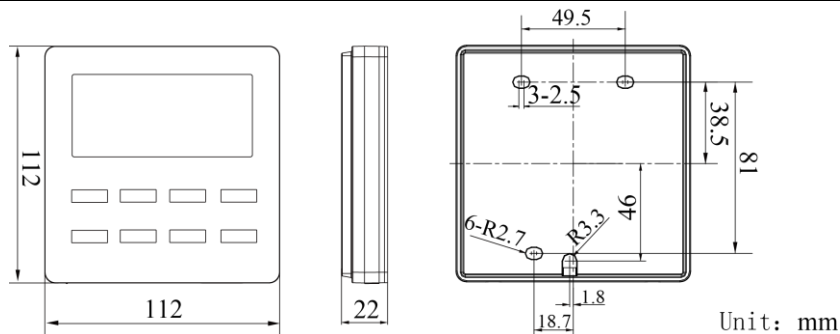


Fig. 5.1.1 Parts of wired controller

| No.  | 1                         | 2                              | 3                             |
|------|---------------------------|--------------------------------|-------------------------------|
| Name | Panel of wired controller | Self-tapping Screw ST3.9X25 MA | Soleplate of wired controller |
| Qty  | 1                         | 3                              | 2                             |

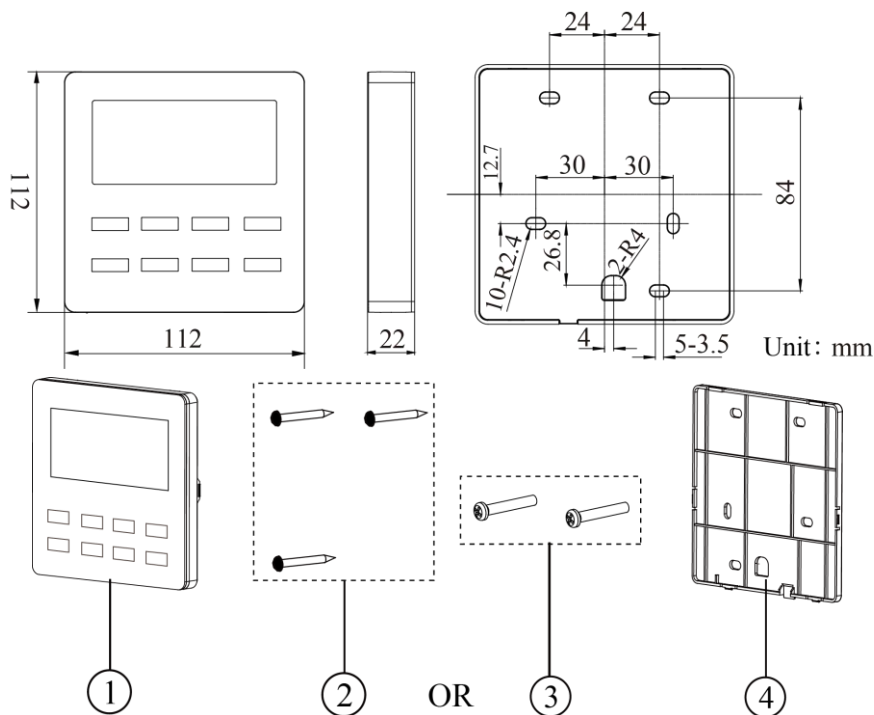


Fig. 5.1.2 Parts of wired controller

| No.  | 1                         | 2                              | 3           | 4                             |
|------|---------------------------|--------------------------------|-------------|-------------------------------|
| Name | Panel of wired controller | Self-tapping Screw ST3.9X25 MA | Screw M4x25 | Soleplate of wired controller |
| Q'ty | 1                         | 3                              | 2           | 1                             |

## 5.1 INSTALLATION OF WIRED CONTROLLER

### 5.1.1 Communication Line Selection

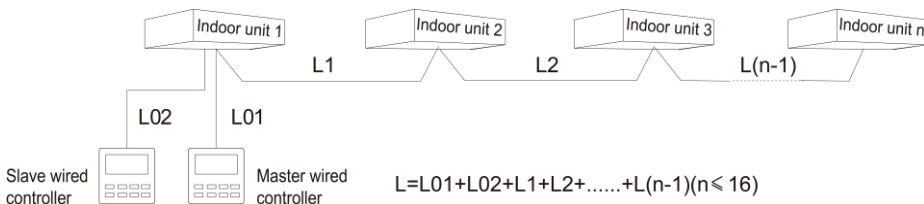


Fig. 5.2 Length of communication line

| Wire material type   | Total length of communication line between indoor unit and wired controller L (m/feet) | Wire size (mm <sup>2</sup> /AWG)   | Material standard | Remarks  |
|--|--|--|-------------------|--|
| Light/Ordinary Polyvinyl chloride sheathed cord.<br>(60227 IEC 52 /60227 IEC 53) | $L \leq 250\text{m}$<br>( $L \leq 820-1/5\text{feet}$ )                                | $2 \times 0.75 \text{ mm}^2 \sim 2 \times 1.25 \text{ mm}^2$<br>( $2 \times \text{AWG}18 \sim 2 \times \text{AWG}16$ ) | IEC 60227-5:2007  | (1)Total length of communication line can't exceed 250m (820-1/5feet).<br>(2)The cord shall be Circular cord (the cores shall be twisted together).<br>(3)If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire. |

Note:

- ① If the air conditioner is installed at the strong electromagnetic interference place, communication line of the wired controller must use shielding twisted pair.



- ② Materials of communication line for wired controller must be selected according to this instruction manual strictly

### 5.1.2 Installation requirements

- (1) Prohibit installing the wired controller at wet places.
- (2) Prohibit installing the wired controller at direct sunshine places.
- (3) Prohibit installing the wired controller at the place near high temperature objects or water-splashing places.
- (4) Prohibit installing the wired controller at the place where faces forward to the window. Prevent abnormal work due to the interference from the other wired controller around.

### 5.1.3 Wiring Requirements

There are four network wiring methods between wired controller and indoor unit:

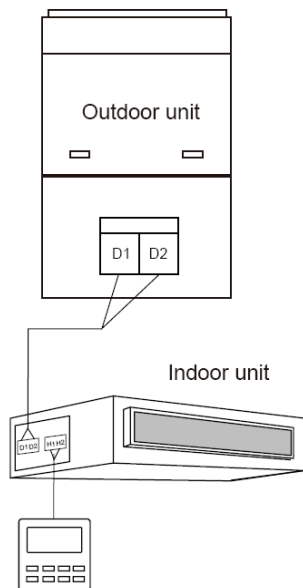


Fig. 5.3 One wired controller controls one indoor unit

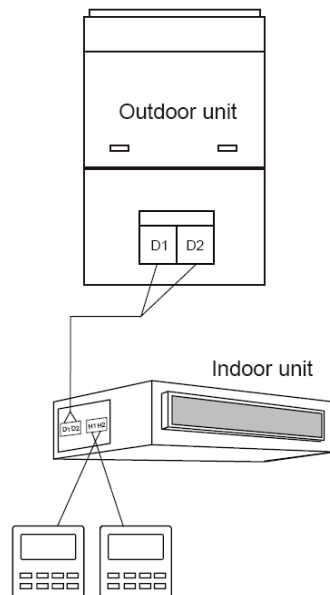


Fig. 5.4 Two wired controllers control one indoor unit

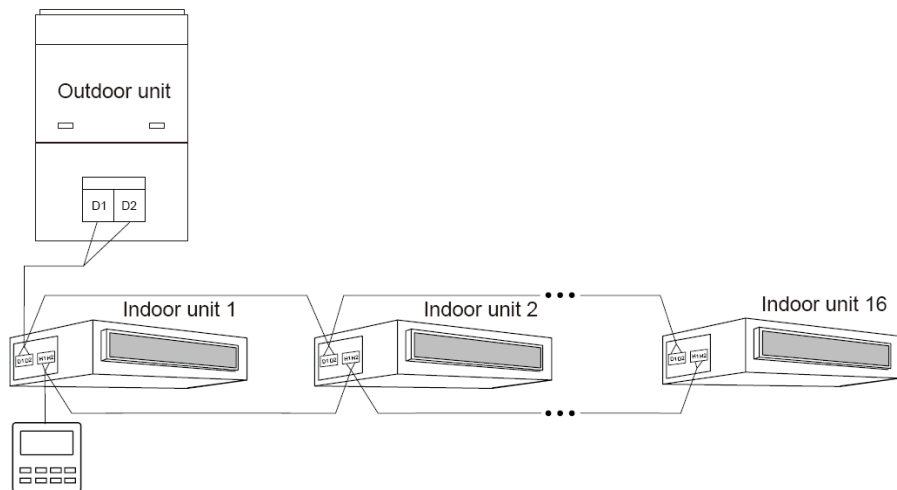


Fig. 5.5 One wired controller controls multiple indoor units simultaneously

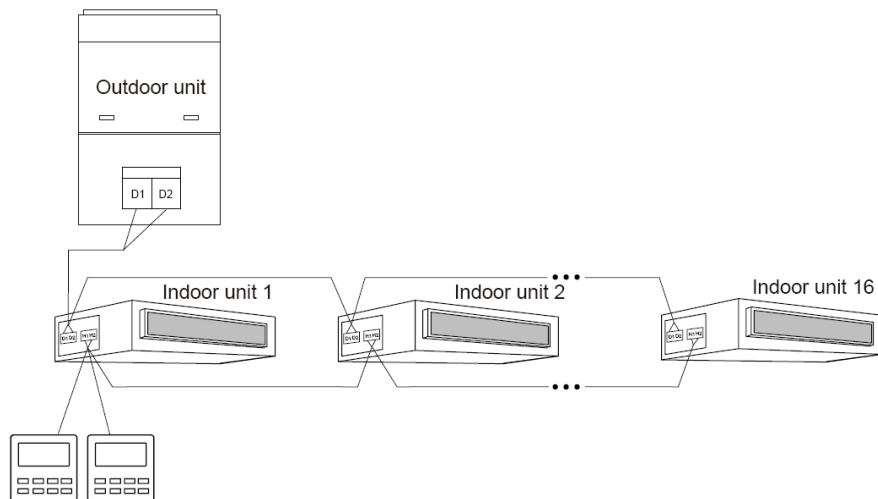


Fig. 5.6 Two wired controllers control multiple indoor units simultaneously

#### Wiring instructions:

- (1) 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 5.2.3 Parameters Setting.
- (2) When two wired controllers control one indoor unit, the addresses of those two wired controllers should be different. Please refer to 5.2.3 parameter setting.

- (3) When two wired controllers control multiple indoor units, wired controller can connected to any one indoor unit, while the connected indoor unit should be the same series indoor unit. The addresses of those two wired controllers should be different. Please refer to 5.2.3 parameter setting. The total quantity of indoor unit controlled by wired controller can't be more than 16 sets and all connected indoor units must be within the same indoor unit network. Wire controller must set quantity of group control indoor units. Please refer to 5.2.3 Parameters Setting.
- (4) When one (or two) wired controller(s) control(s) multiple indoor units at the same time, the controlled indoor unit's setting should be the same.
- (5) Wiring of wired controller and indoor unit network must be according to one of the four wiring method as shown in fig 5.3-5.6. As for the connection method shown in fig 5.4 and 5.6, there should be only one master wired controller (address is 01) and one slave wired controller (address 02). The quantity of wired controller can't exceed two.

### Note:

Series of indoor units include:①Common Multi VRF Units;②Fresh Air Units;③Double-heat Sources Units;④Combined Units; Except for fresh air units, double-heat sources units and combined units, the rest of indoor units belong to common multi VRF units.

## 5.1.4 Installation

There're two editions of wired controller. The Installation way is different.

Installation way one :

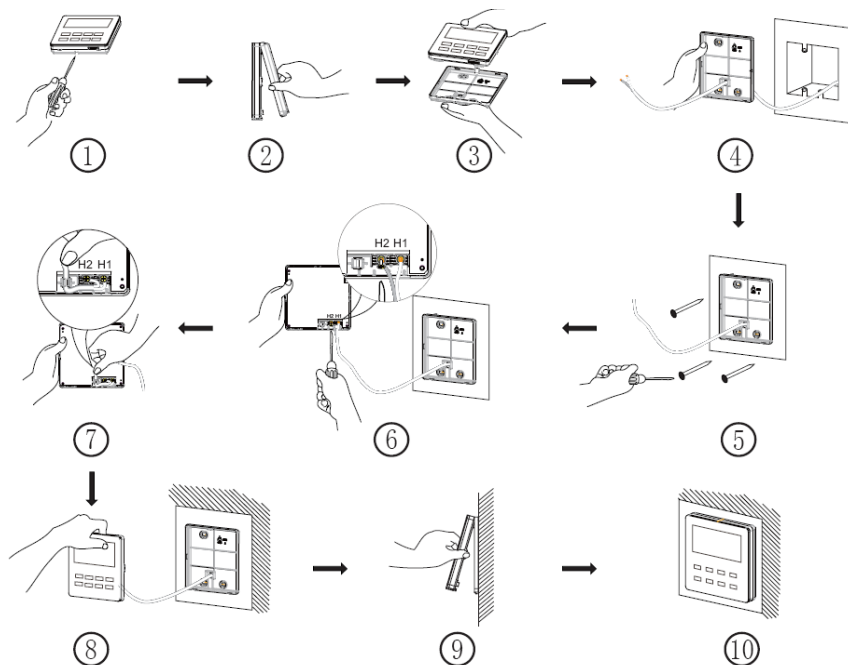


Fig. 5.7 Installation diagram for wired controller

Fig. 5.7 is the simple installation process of wired controller; please pay attention to the following items:

- (1) Before installation, please cut off the power for indoor unit.
- (2) Pull out the two-core twisted pair from the installation hole on wall, and then pull this wire through the "□" shape hole at the rear side of Soleplate of wired controller.
- (3) Stick the bottom plate of wired controller on the wall and then use Self-tapping Screw ST3.9X25 MA to fix Soleplate and installation hole on wall together.
- (4) Connect two-core twisted pair to H1 and H2 wiring column and then fix the screws.
- (5) Set two-core into the groove at left side of wiring column, and then bundle panel and Soleplate of wired controller together.

Note: If the wire size of the selected communication line is too large, you can peel some sheath layer of communication wire to satisfy installation requirements.

Installation way two :

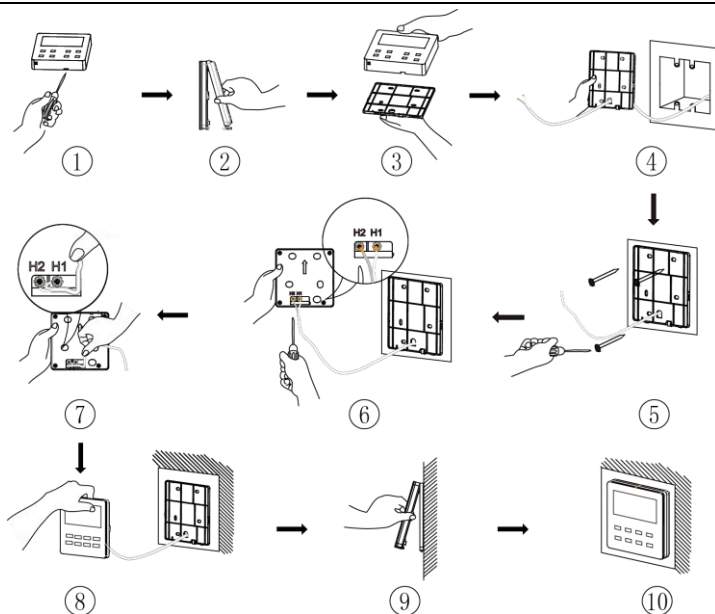


Fig. 5.8 Installation diagram for wired controller

Fig. 5.8 is the simple installation process of wired controller; please pay attention to the following items:

- (1) Before installation, please cut off the power for indoor unit.
- (2) Pull out the two-core twisted pair from the installation hole on wall, and then pull this wire through the "□" shape hole at the rear side of Soleplate of wired controller.



- (3) Stick the bottom plate of wired controller on the wall and then use Self-tapping Screw ST3.9X25 MA or Screw M4×25 to fix Soleplate and installation hole on wall together.
- (4) Connect two-core twisted pair to H1 and H2 wiring column and then fix the screws.
- (5) Tidy up the lines in slot on the back of the panel, and then bundle the front panel of wired controller to its soleplate and the installation is completed.

Note: If the wire size of the selected communication line is too large, you can peel some sheath layer of communication wire to satisfy installation requirements.

### 5.1.5 Disassembly

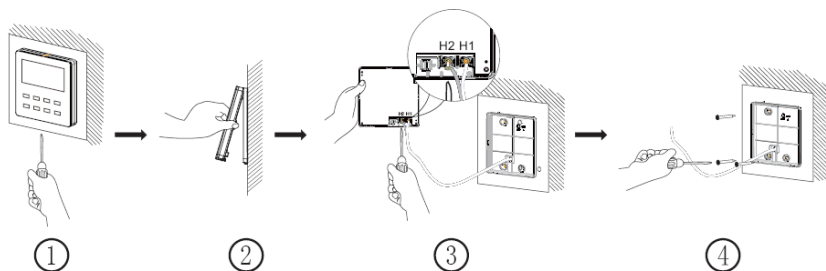


Fig. 5.9 Disassembly diagram of wired controller

## 5.2 COMMISSIONING

### 5.2.1 Set Master Indoor Unit

Under Off status, long press MODE button for 5s to set the corresponding indoor unit of wired controller as master indoor unit. “MASTER” icon will be light after finishing setting.

Note:

- ① There is a master indoor unit in a system, other slave indoor units can be set as master unit, in which case, the original master unit will become a slave unit.
- ② In one system, only one set of master indoor unit is allowed. If system detects that there are several master units, it will designate the unit with the smallest project number as a master unit.

### 5.2.2 Parameter Enquiry

Unit parameters can be checked in unit On or Off status.

- (1) Long press “FUNCTION” button for 5s to enter the interface of viewing unit parameters. “C00” is displayed in temperature zone and “CHECK” icon is light;
- (2) Press “▲” or “▼” button to select parameter code;
- (3) Press “ENTER/CANCEL” button to return to last step until exits viewing parameters.

The parameter enquiry list is as following:

Table 5.1 Parameters viewing list

| Parameter code | Parameter name  | Parameter range                                | Viewing method  |
|----------------|---|--|---|
| C00            | Entrance of adjustable parameter  | --   | In "C00" status, Timer zone shows the current indoor unit project number. When one wired controller is controlling multiple indoor units, then only the smallest project number will be displayed.  |
| C01            | View the project number of indoor unit and locate the faulted indoor unit | 1-255;<br>Project number of online indoor unit | <p>Operation method:<br/>Enter viewing, press MODE button in "C01" status to enter the interface of viewing indoor unit project number. Press "▲" or "▼" button to select the project number of indoor unit.</p> <p>Display method:<br/>Temperature zone: displays error codes of the current indoor unit( The temperature zone will display the error codes in turn with an interval of 3 seconds if there are several malfunctions in one indoor unit.)<br/>Timer zone: displays present indoor unit project number /C5 malfunction of project number conflict</p> <p>Note:<br/>1) If master indoor unit exists in current indoor unit network, "MASTER" icon will be bright under "C01" interface. After entering the interface of viewing project number, "MASTER" icon will be bright only when the project number of master indoor unit is selected.<br/>2) System will not exit "C01" viewing automatically. User has to exit this interface manually.</p> |
| C03            | View the indoor unit quantity of the system network                       | 1-80   | Timer zone: display indoor unit quantity of the system  |

| Parameter code | Parameter name                   | Parameter range                                | Viewing method   |
|----------------|----------------------------------|--|--|
| C06            | View priority operation          | 00: normal operation<br>01: priority operation | <p>Operation method:<br/>Enter viewing: press MODE button in “C06” status to enter the interface of viewing priority operation.<br/>Press “▲” or “▼” button to select indoor unit.</p> <p>Display method:<br/>Temperature zone: displays current indoor unit project number;<br/>Timer zone: displays current priority operation setting value of indoor unit.</p> |
| C07            | View indoor ambient temperature  | --   | <p>Operation method:<br/>Enter viewing: press MODE button in “C07” status to enter the interface of viewing indoor ambient temperature. Press “▲” or “▼” button to select indoor unit.</p> <p>Display method:<br/>Temperature zone: displays current indoor unit project number;<br/>Timer zone: displays indoor ambient temperature.</p>                          |
| C08            | View Filter Clean Reminder time  | 4-416: days                                    | Timer zone: displays Filter Clean Reminder time  |
| C09            | View address of wired controller | 01, 02   | Timer zone: displays the address of wired controller   |

## Wired Controller

| Parameter code | Parameter name   | Parameter range                    | Viewing method   |
|----------------|--|------------------------------------|--|
| C11            | View the indoor unit quantity in the case that one wired controller controls several indoor units at the same time | 1-16                               | Timer zone: displays the indoor unit quantity controlled by the wired controller   |
| C12            | View outdoor ambient temperature   | -                                  | Timer zone: displays outdoor ambient temperature   |
| C17            | View indoor relative humidity  | 20~90 relative humidity<br>20%~90% | <p>Operation method:<br/>Enter into review process and press "MODE" button to enter into the review interface of indoor relative humidity under C17 status. Press "▲" or "▼" button to switch the number of indoor unit.</p> <p>Display method:<br/>Temp area: display current indoor unit's project number<br/>Timer zone: display indoor relative humidity</p> |

| Parameter code | Parameter name                                   | Parameter range                            | Viewing method  |
|----------------|--|--|---|
| C18            | One-button viewing of indoor unit project number | 1-255:Project Number of online indoor unit | <p>Operation method:<br/>Enter viewing, short-press "MODE" button in "C18" status to turn on the function of one-button viewing indoor unit project code, and the wired controller will enter the interface of viewing indoor unit project code. Press "▲" or "▼" button to select the indoor unit.</p> <p>Display method:<br/>Temperature zone: displays number of the current indoor unit<br/>Timer zone: displays project number of indoor unit</p> <p>Note:<br/>1) After turning on the one-button viewing function, each wired controller of the entire system will display the project number of its controlling indoor unit on its timer zone. (The timer zone will display different project numbers in turn with an interval of 3 seconds if one wired controller is controlling multiple indoor units.)<br/>2) Slave wired controller cannot view "C18".</p> <p>Cancel method:<br/>1) If user exits the "C18" interface manually, the one-button viewing function will be immediately turned off.<br/>2) If system exits the "C18" interface due to no action in 20 seconds, user has to press the "ON/OFF" button under on/off status to cancel this function.<br/>3) After the one-button viewing function is turned on, pressing the "ON/OFF" button of any wired controller of the same system network under on/off status will cancel this function.</p> |

## Wired Controller

| Parameter code | Parameter name  | Parameter range | Viewing method  |
|----------------|---|-----------------|---|
| C20            | View the air outlet temperature of Fresh Air Indoor Unit* | --              | <p>Operation method:<br/>Enter viewing, short-press "MODE" button in "C20" status to enter the interface of viewing air outlet temperature of Fresh Air Indoor Unit. Press "▲" or "▼" button to select the indoor unit.</p> <p>Display method:<br/>Temperature zone: displays current indoor unit project number<br/>Timer zone: displays air outlet temperature of Fresh Air Indoor Unit<br/>Note: only applicable to Fresh Air Indoor Unit.</p> |

### Note:

- ① Under parameter viewing status, FAN, TIMER, SLEEP and SWING buttons are invalid. Press "ON/OFF" button to go back to the home page, while not to turn on/off the unit.
- ② Under parameter viewing status, the signal from remote controller is invalid.

## 5.2.3 Parameter Setting

Unit parameters can be set in unit On or Off status.

- (1) Long press FUNCTION button for 5s and the temperature zone displays "C00"; long press FUNCTION button for another 5s to enter the interface of setting wired controller parameters. "P00" is displayed in temperature zone;
- (2) Press "▲" or "▼" button to select parameter code. Press MODE button to enter parameter setting. At that time, parameter value is blinking. Press "▲" or "▼" button to adjust the parameter value and press ENTER/CANCEL button to

finish setting.

- (3) Press ENTER/CANCEL button to return to last step until exists setting parameters.

The parameter setting list is as following:

Table 5.2 Parameter setting list

| Parameter code | Parameter name                            | Parameter range  | Default value | Note   |
|----------------|---|--|---------------|--|
| P10            | Set master indoor unit                    | 00: do not change current master/slave state of indoor unit<br>01: set current indoor unit as master indoor unit | 00            | When set the corresponding indoor unit of wired controller as master indoor unit, "MASTER" icon will be bright after finishing setting.  |
| P11            | Set infrared receiver of wired controller | 00: forbidden<br>01: activated   | 01            | It can be set only through master wired controller. When infrared receiver of wired controller is forbidden, the wired controller can't receive the signal from remote controller and it is operated through buttons.                                |
| P13            | Set address of wired controller           | 01: master wired controller<br>02: slave wired controller  | 01            | When two wired controllers control one indoor unit (or several indoor units), the addresses of the two wired controllers should be different. Assistant wired controller (02) is without unit parameter setting function except setting its address. |



## Wired Controller

| Parameter code | Parameter name                             | Parameter range  | Default value | Note   |
|----------------|--|--|---------------|--|
| P14            | Set quantity of group control indoor units | 00: forbid this function<br>01-16: indoor unit quantity                                | 01            | Set the corresponding value according to the connected indoor unit quantity.   |
| P16            | Set unit of temperature                    | 00:Celsius<br>01:Fahrenheit  | 00            | --   |
| P30            | Set static pressure of indoor fan motor    | 01-09: static pressure level of indoor fan motor                                       | 05            | There are two kinds of static pressure level:<br>5 levels: 03, 04, 05, 06, 07<br>9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09<br>Wired controller can be adapted to the different types of indoor units that it possesses 1-9 level selection for setting static pressure. When the indoor unit with 5 static pressure levels received the level setting sent by wired controller is less than 3, it will be settled as the 3rd level; if it is over 7, it will be settled as the 7th level. |
| P31            | High ceiling installation*                 | 00: installation height of standard ceiling<br>01: installation height of high ceiling | 00            | Only applicable to cassette units  |
| P33            | Set Timer                                  | 00: general timer<br>01: clock timer   | 00            | --   |

| Parameter code | Parameter name                                 | Parameter range  | Default value | Note  |
|----------------|--|--|---------------|---|
| P34            | Clock Timer repetition is valid                | 00: once<br>01: repeat everyday                          | 00            | Available only when timer is set to clock timer.  |
| P37            | Cooling setting temperature under auto mode    | 17°C~30°C(63°F~86°F)                                     | 25°C(77°F)    | When the temperature unit is °C, cooling setting temperature minus heating setting temperature ≥ 1°C. When the temperature unit is °F, cooling setting temperature minus heating setting temperature ≥ 2°F. |
| P38            | Heating setting temperature under auto mode    | 16°C~29°C(61°F~84°F)                                     | 20°C(68°F)    |   |
| P43            | Set priority operation                         | 00: normal operation<br>01: priority operation           | 00            | When power supply is insufficient, the indoor units which are set to priority operation can operate, while other indoor units are forced to be turned off.  |
| P46            | Clear Filter Clean accumulated time            | 00: do not clear<br>01: clear                            | 00            | --  |
| P49            | Opening angle of indoor unit air-return plate* | 01: angle 1(25°)<br>02: angle 2(30°)<br>03: angle 3(35°) | 01            | Only applicable to units with air-return plate  |

## Wired Controller

| Parameter code | Parameter name   | Parameter range                                     | Default value | Note  |
|----------------|--|---|---------------|---|
| P50            | Air outlet temperature setting for Fresh Air Indoor Unit in cooling* | 16°C~30°C(61°F~86°F)                                | 18°C (64°F)   | Only applicable to Fresh Air Indoor Unit  |
| P51            | Air outlet temperature setting for Fresh Air Indoor Unit in heating* | 16°C~30°C(61°F~86°F)                                | 22°C (71°F)   | Only applicable to Fresh Air Indoor Unit  |
| P54            | Union setting of Fresh Air Indoor Unit*                              | 00: without union control<br>01: with union control | 00            | After union function is set, Fresh Air Indoor Unit will be turned on/off following the on/off status of common indoor unit. Besides, Fresh Air Indoor Unit can also be turned on/off manually.<br>Note: only applicable to Fresh Air Indoor Unit. |

### Note:

- ① Under parameter setting status, FAN, TIMER, SLEEP and SWING button are invalid. Press ON/OFF button to go back to home page, but not turning on/off the unit.
- ② Under parameter setting status, the signal from remote controller is invalid.

## 6 OPERATION INSTRUCTIONS

### 6.1 ON/OFF

Press ON/OFF button to turn on the unit. Press ON/OFF button again to turn off the unit. The interfaces of On/Off status are shown in fig. 6.1 ~ 6.4.



Fig. 6.1 Interface of On status in Celsius    Fig. 6.2 Interface of Off status in Celsius



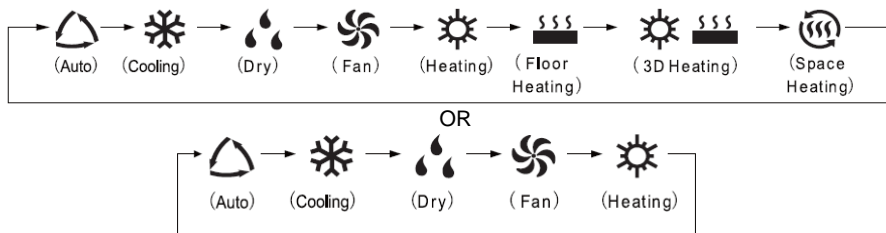
Fig. 6.3 Interface of On status in Fahrenheit







Fig. 6.4 Interface of Off status in Fahrenheit

## 6.2 MODE SETTING





Under On status, pressing MODE button can set mode circularly as:




**Note:**

- 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 The Auto mode can be only set at the master indoor unit.
- ③ Under Auto mode, if the indoor unit is running under Cooling, the icons "" and "" will light up; if the indoor unit is running under Heating, the icons "" and "" will light up.

## 6.3 TEMPERATURE SETTING

Pressing "" or "" button in On status increases or decreases set temperature by 1°C or 1°F; holding "" or "" button increases or decreases set temperature by 1°C or 1°F every 0.3s.

In Cooling, Fan, Heating, Floor Heating, 3D Heating or Space Heating mode, temperature setting range is 16°C~30°C or 61°F ~86°F.

In Dry mode, the temperature setting range is 12°C or 54°F, 16°C~30°C or 61°F~86°F. In 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 in Dry mode can't be adjusted to 12°C or 54°F and the setting range is "lowest temperature in Save mode" ~ 30°C or 86°F).

**Note:**

- ① Under Auto mode or Absence function is activated, the setting temperature

can not be adjusted by pressing “▲” or “▼”.

- ② 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

- (1) Under On status, pressing FAN button can set fan speed circularly as:



## (2) Turbo function setting

Start turbo function: In unit on status, press “FUNCTION” button to switch to Turbo function with Turbo function icon “**TURBO**” blinking, and then press “ENTER/CANCEL” button to start Turbo function. When Turbo function is activated, Turbo function icon “” will be bright.

Cancel Turbo function: When Turbo function is activated, press “FUNCTION” button to switch to Turbo function with Turbo function icon “**TURBO**” blinking, and then press “ENTER/CANCEL” button to cancel Turbo function ; Press “FAN” button to cancel turbo function and start auto speed.

Note:

- ① In 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 TIMER SETTING

The wired controller is equipped with two kinds of timer: general timer and clock timer. General timer is factory defaulted setting. Please refer to Section 5.2.3 for the timer setting way.



## 6.5.1 General Timer

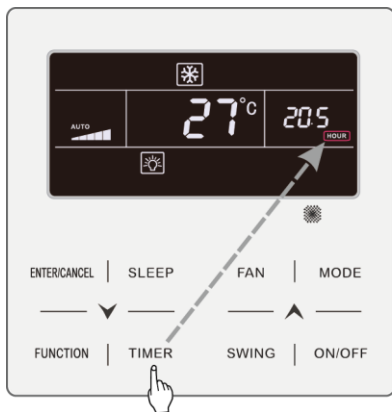
Unit On/Off after a desired hour can be set through general timer.

**Set Timer:** when timer is not set, press TIMER button to enter timer setting and “HOUR” icon is blinking. Press “▲” or “▼” button to adjust timer time. Press TIMER button to save the setting and then exit setting.

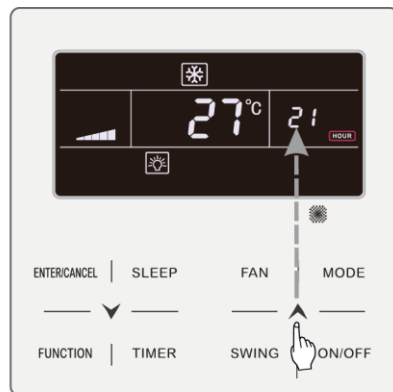
**Cancel Timer:** when timer is set, press TIMER button to cancel it.

**Timer setting range:** 0.5~24h. Pressing “▲” or “▼” button increases or decreases timer time by 0.5h; holding “▲” or “▼” button increases or decreases timer time by 0.5h every 0.3s.

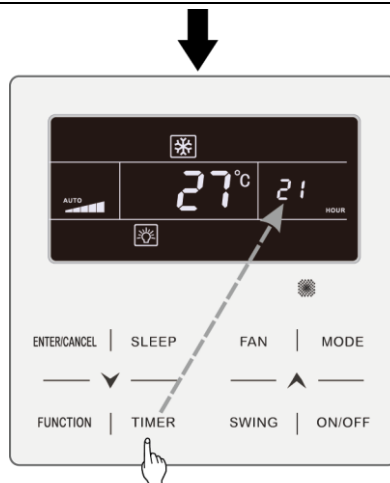
In unit On status, timer Off setting is as shown in fig. 6.5 or 6.6.



Press TIMER button to set timer

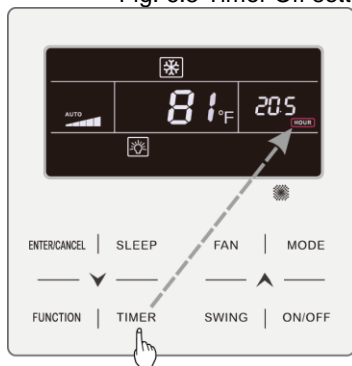


Press “▲” or “▼” button to adjust timer time

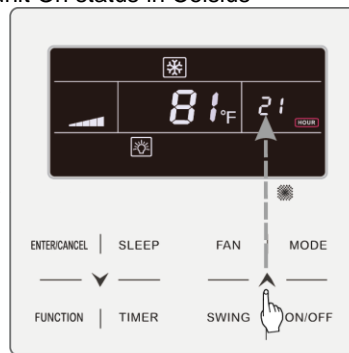


Press TIMER button to finish timer setting

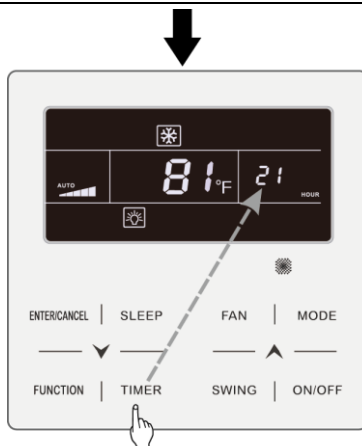
Fig. 6.5 Timer Off setting in unit On status in Celsius



Press TIMER button to set timer



Press "▲" or "▼" button to adjust timer time



Press TIMER button to finish timer setting

Fig. 6.6 Timer Off setting in unit On status in Fahrenheit

## 6.5.2 Clock Setting

Clock display: when the timer setting way is clock timer, timer zone displays system clock in unit On and Off status. “🕒” icon is bright and the clock can be set at this time.

Clock setting: long press TIMER button for 5s to enter clock setting and “🕒” icon is blinking. Pressing “▲” or “▼” button increases or decreases clock time by 1min; holding “▲” or “▼” button for 5s increases or decreases clock time by 10min; Press ENTER/CANCEL button or TIMER button to save the setting and then exit setting.

### 6.5.3 Clock Timer

Unit On/Off at a certain time can be set through clock timer.

Set Timer:

- (1) Press TIMER button to enter timer on setting and the “ON” icon is blinking;
- (2) Press “▲” or “▼” button to adjust unit On time. Press ENTER/CANCEL button to finish setting;
- (3) Before pressing ENTER/CANCEL button, pressing TIMER button can save unit On time and then switch to unit Off time setting with “OFF” icon blinking;
- (4) Press “▲” or “▼” button to adjust unit Off time. Press ENTER/CANCEL button to finish setting;

Cancel Timer:

Press TIMER button to enter timer setting; press TIMER button again to switch to the setting of unit ON time or unit Off time; press ENTER/CANCEL button to cancel timer.

Pressing “▲” or “▼” button increases or decreases timer time by 1min; holding “▲” or “▼” button for 5s increases or decreases timer time by 10min.

Clock Timer setting is as shown in fig. 6.7 or 6.8:

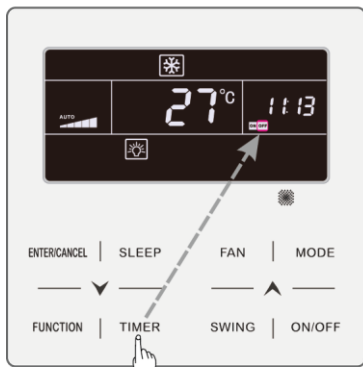
## Wired Controller



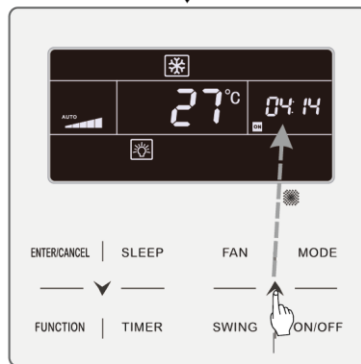
Unit is on and timer is not set



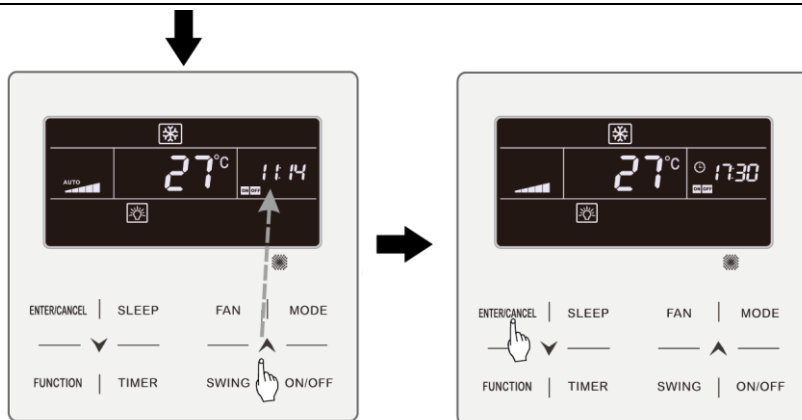
Press TIMER button to set unit On time



Press TIMER button to switch to unit Off time setting



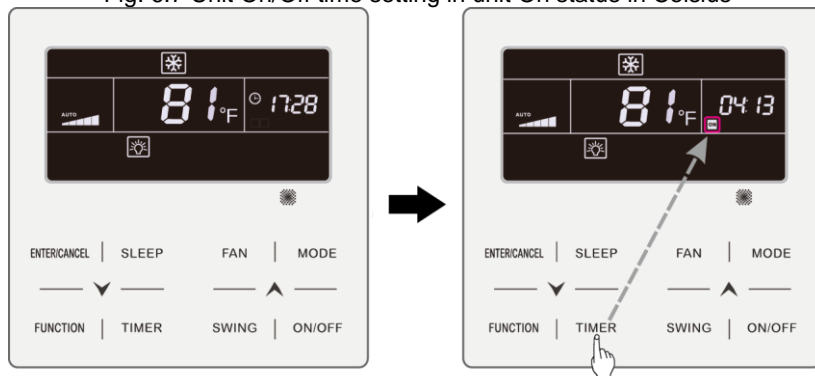
Press “^” or “v” button to adjust unit On time



Press “^” or “v” button to adjust unit Off time

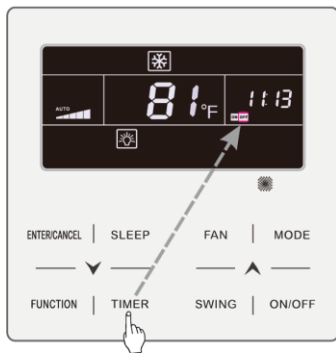
Press ENTER/CANCEL button to finish setting

Fig. 6.7 Unit On/Off time setting in unit On status in Celsius

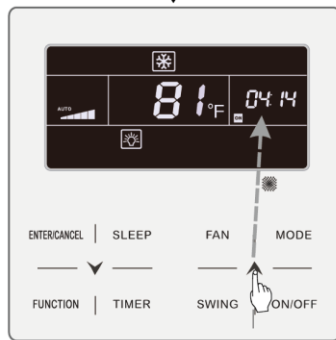


Unit is on and timer is not set

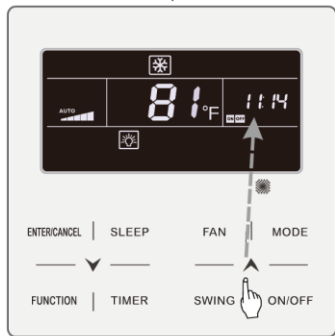
Press TIMER button to set unit On time



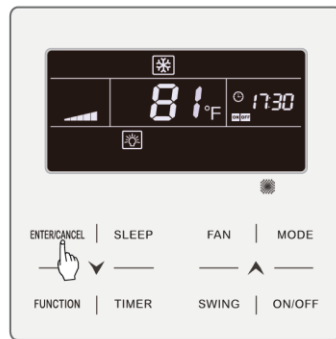
Press TIMER button to switch to unit Off time setting



Press "▲" or "▼" button to adjust unit On time



Press "▲" or "▼" button to adjust unit Off time




Press ENTER/CANCEL button to finish setting

Fig. 6.8 Unit On/Off time setting in unit On status in Fahrenheit

## 6.6 SWING SETTING

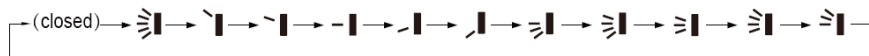
In unit on status, up & down swing function and left & right swing function can be set.

### (1) Up & down swing function



Up & down swing function has two modes: simple swing mode and fixed-angle swing mode. In unit off status, press “SWING” button and “▲” button together for 5 seconds to switch between simple swing mode and fixed-angle swing mode. Up & down swing icon  will blink during switching.


1) When simple swing mode is set in unit on status, press “SWING” button to start or stop up & down swing.

2) When fixed-angle swing mode is set in unit on status, press “SWING” button to adjust swing angle circularly as below:



### (2) Left & right swing function\*:





Start left & right swing: In unit on status, press “FUNCTION” button to switch to left & right swing function with left & right swing icon  blinking, and then press “ENTER/CANCEL” button to start left & right swing. When left & right swing is activated, left & right swing icon  will be bright.

Cancel left & right swing: When left & right swing is activated, press “FUNCTION” button to switch to left & right swing with left & right swing icon  blinking, and then press “ENTER/CANCEL” button to cancel left & right swing.



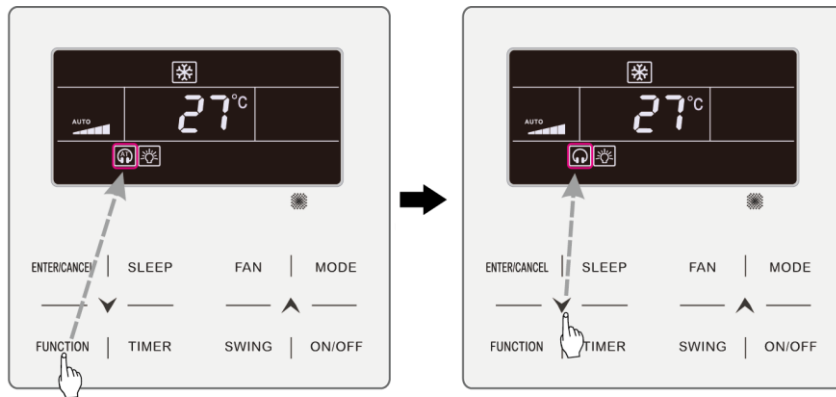
## 6.7 QUIET SETTING

Quiet Function: decrease the noise of indoor unit and achieve the quiet effect. Quiet function has two modes: Quiet mode and Auto Quiet mode. It is available only in Auto, Cooling, Dry, Fan, Heating, 3D heating, Space heating mode.



Turn on Quiet Function: press FUNCTION button to turn to Quiet function and then Quiet icon “” or auto quiet icon “” is blinking. At this moment, press “” or “” button to switch between quiet and auto quiet, and then press ENTER/CANCEL button to activate.

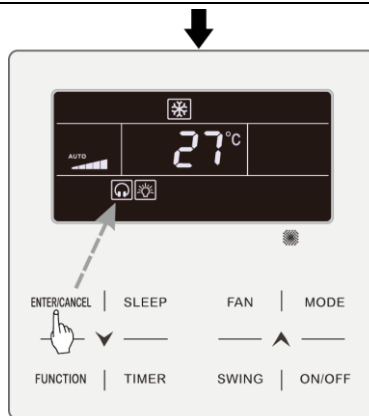
Turn off Quiet Function: press FUNCTION button to turn to Quiet function and then press ENTER/CANCEL button to cancel Quiet function.

The setting of Quiet function is as shown in fig. 6.9 or 6.10:



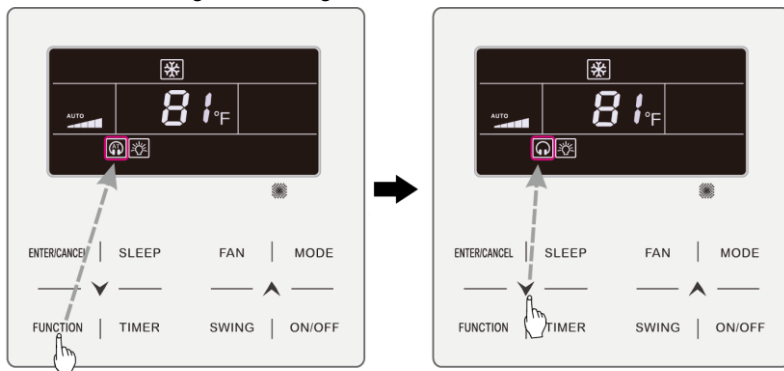
Press FUNCTION button to turn to Quiet function

Press “” or “” button to switch between Quiet and Auto Quiet



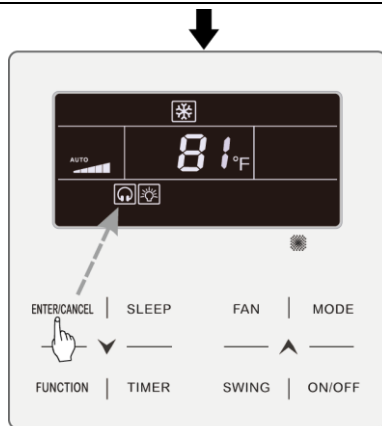
Press ENTER/CANCEL button to activate Quiet function

Fig. 6.9 Setting of Quiet function in Celsius



Press FUNCTION button to turn to Quiet function

Press "▲" or "▼" button to switch between Quiet and Auto Quiet



Press ENTER/CANCEL button to activate Quiet function

Fig. 6.10 Setting of Quiet function in Fahrenheit

**Note:**

- ① When Quiet function is enabled, indoor unit will operate at quiet fan speed. Fan speed is lowered so as to reduce the noise of indoor fan motor.
- ② When Auto Quiet function is enabled, indoor unit will change fan speed automatically according to room temperature. After room temperature reaches a set point, unit will operate at quiet fan speed.

## 6.8 SLEEP SETTING

**Sleep Function:** in this mode, the unit will operate according to the preset sleep curve to provide comfortable sleep environment.

**Turn on/off Sleep Function:** in unit On status, press SLEEP button to activate. or cancel Sleep function.




When Sleep function is activated, “” icon is bright and quiet or auto quiet mode is also activated.

When Sleep function is closed, if quiet function is activated before starting Sleep function, only sleep function is closed while quiet function is still activated;

Under Auto, Fan or Floor Heating mode, this Sleep function is not available.

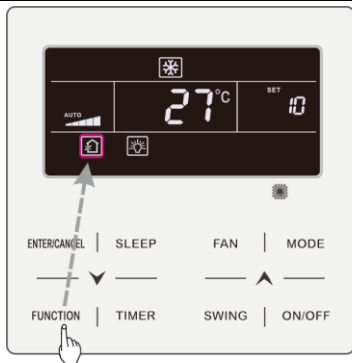
## 6.9 AIR SETTING\*

**Air Function:** Adjust the amount of indoor fresh air to improve air quality and keep indoor air fresh.

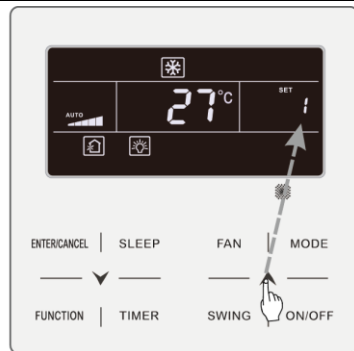
**Turn on Air Function:** When unit is on or off, press FUNCTION button and select Air. “” icon will blink and the unit enters into Air setting. Temperature zone shows the level of Air setting, which can be adjusted by pressing “” or “” button. The adjustment range is 1~10. Press ENTER/CANCEL button to turn on Air function.

**Turn off Air Function:** When Air function is on, press FUNCTION button to select Air, then press ENTER/CANCEL button to cancel this setting.

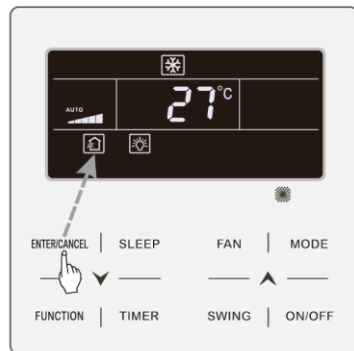
Fig.6.11 or 6.12 Shows how to turn on Air function:



Press FUNCTION button and select Air

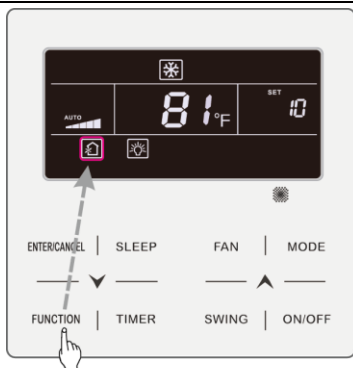


Press "▲" or "▼" button to adjust the level of Air setting

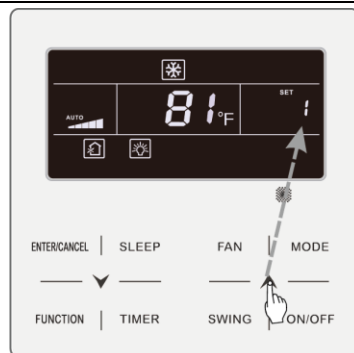


Press ENTER/CANCEL button to turn on Air function

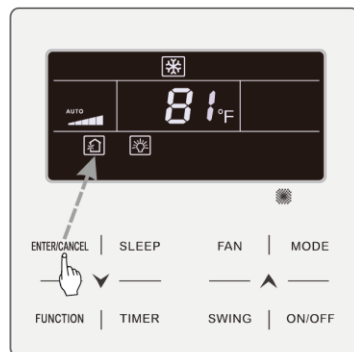
Fig.6.11 Turn on Air Function in Celsius



Press FUNCTION button and select Air



Press "▲" or "▼" button to adjust the level of Air setting



Press ENTER/CANCEL button to turn on Air function

Fig.6.12 Turn on Air Function in Fahrenheit


### Note:

- ① Air function is only effective for units with air function and fresh air motorized air valve (abbr. fresh air valve).
- ② The following table indicates the opening time of fresh air valve per unit of time (60min) corresponding to the level of Air setting. Opening time of fresh air valve is the initial N minutes per unit of time. Example: The level of Air setting is set to 1, then unit starts timing and fresh air valve is open. 6 minutes later, fresh air valve is closed and unit keeps running. After timing for minutes, unit restarts timing and fresh air valve is open again. 6 minutes later, the valve is closed and the cycle repeats.

| Level of Air setting  | 1     | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10        |
|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| Opening time of fresh air valve   | 60 /6 | 60 /12 | 60 /18 | 60 /24 | 60 /30 | 60 /36 | 60 /42 | 60 /48 | 60 /54 | Always on |
| Note: time indicated in the table: unit's operating time (min) / opening time of fresh air valve per operating time (min) |       |        |        |        |        |        |        |        |        |           |

## 6.10 LIGHT ON/OFF SETTING

Light On/Off Function: Light of indoor unit can be turned on or off.

Turn on the Light: When unit is on or off, press FUNCTION button to select Light function. “” icon will blink. Press ENTER/CANCEL to turn on the light

Turn off the Light: When light of indoor unit is on, press FUNCTION button to select Light. Then press ENTER/CANCEL to turn off the light.

### Note:

When there is no button operation on the wired controller or no remote control signal is received for 20s continuously:

- ① If Light function is activated, the back light of LCD will turn to half bright.
- ② If Light function is off, the back light of LCD will be off.

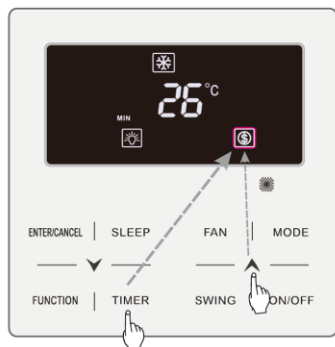
## 6.11 SAVE SETTING

**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.

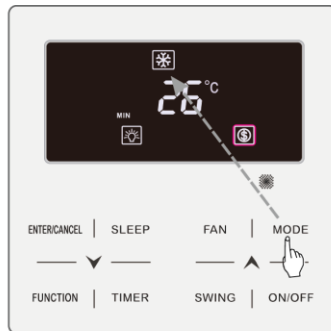
**Start up Save function for Cooling:** When the unit is off, simultaneously press “TIMER” and “▲” buttons for 5s, the buzzer will give out a sound and then unit will enter into Save setting mode. “\$” icon is blinking. “MIN” icon and Mode icon are on. Press “MODE” button to switch to Cooling or Dry mode. Press “▲” or “▼” button to adjust the temperature limit for Save function; press “ENTER/CANCEL” button to start up Save function.

Fig.6.13 or 6.14 Shows how to set Save function for Cooling:

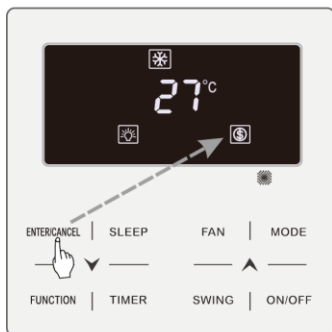




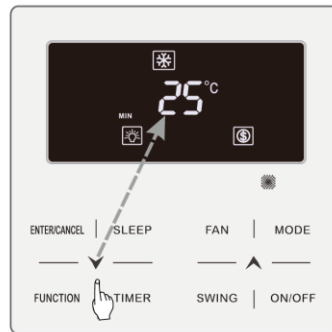
Press TIMER + "▲" button for 5 seconds and set Save in OFF status



Press MODE button and select Cooling or Dry mode

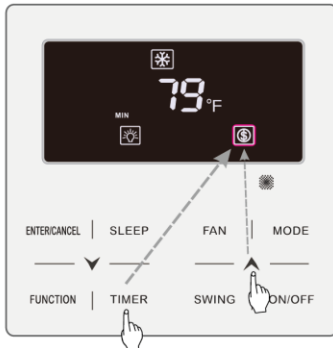


Press ENTER/CANCEL button to activate Save function

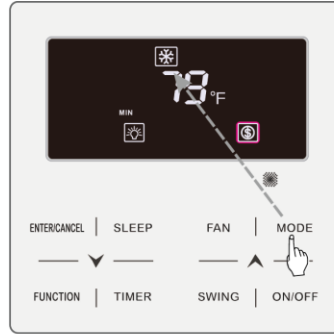


Press "▲" or "▼" button to adjust the minimum temperature

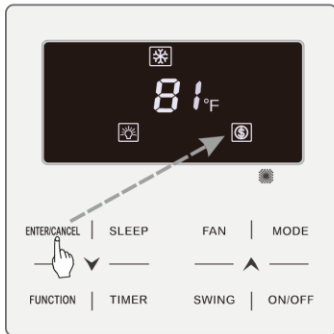
Fig.6.13 Save Setting for Cooling in Celsius



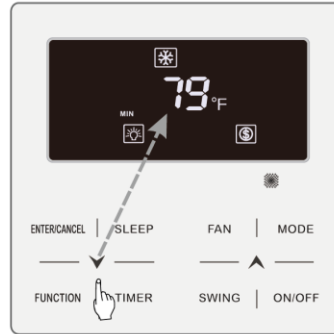
Press TIMER + "▲" button for 5 seconds and set Save in OFF status



Press MODE button and select Cooling or Dry mode



Press ENTER/CANCEL button to activate Save function



Press "▲" or "▼" button to adjust the minimum temperature

Fig.6.14 Save Setting for Cooling in Fahrenheit

Start up Save function for Heating: When the unit is off, simultaneously press “TIMER” and “▲” buttons for 5s, the buzzer will give out a sound and then unit will enter into Save setting mode. “\$” icon is blinking. “MAX” icon and Mode icon are on. Press “MODE” button to switch to Heating or 3D Heating or Space Heating mode. Press “▲” or “▼” button to adjust the temperature limit for Save function. Press “ENTER/CANCEL” button to start up Save function.

After starting up save function, it will display “\$” icon for all modes under on and off status.

Cancel save function:

When the unit is off, press “TIMER” and “▲” buttons for 5s to enter into save setting, press “ENTER/CANCEL” button to cancel Save function of all modes.

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.

## 6.12 FILTER CLEAN REMINDER SETTING

Filter Clean Reminder Function: Unit will remember its own operating time. When the setting time is up, this function will remind you to clean the filter. A dirty filter will result in bad heating and cooling performance, abnormal protection, bacteria gathering, etc.

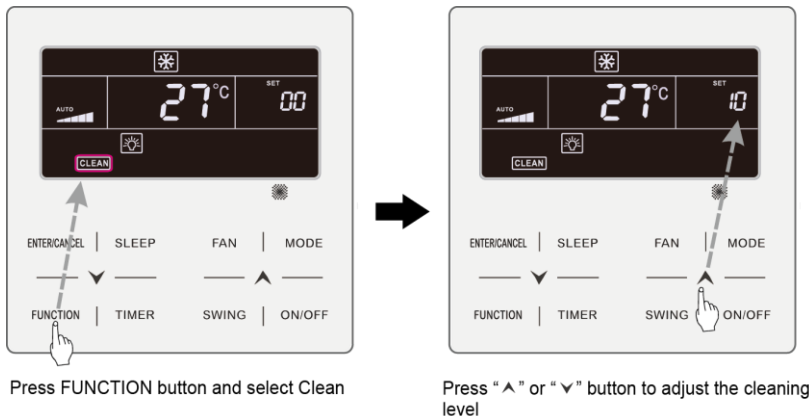
Turn on Filter Clean Reminder Function: When unit is on, press FUNCTION button and select Filter Clean Reminder. “CLEAN” icon will blink. Press “▲” or “▼” button to adjust the cleaning level, of which the range is 00, 10-39. Press

## ENTER/CANCEL to turn on this function

Turn off Filter Clean Reminder Function: When unit is on and this function has been turned on, press FUNCTION button and select Clean. Then “**CLEAN**” icon will blink. Set the cleaning level as 00 and press ENTER/CANCEL function to cancel this setting.

When Filter Clean Reminder time is up, “**CLEAN**” icon will light up to remind you to clean the filter. Press FUNCTION button to turn to Filter Clean Reminder Function, then press SWING/ENTER to cancel reminding, and it will retime according to the original cleaning level. The clean reminding can be cancel only when you didn't reset the cleaning level under the setting of Filter Clean Reminder Function.

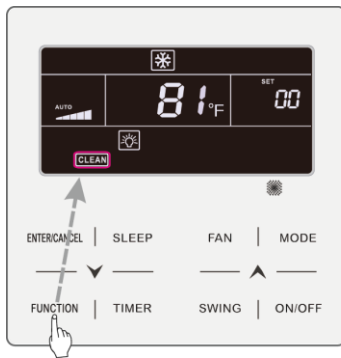
Fig.6.15 or 6.16 Shows how to turn on Filter Clean Reminder function:



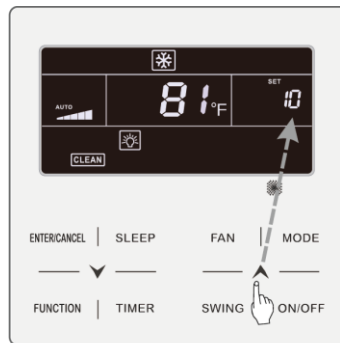


Press ENTER/CANCEL button to activate Clean function

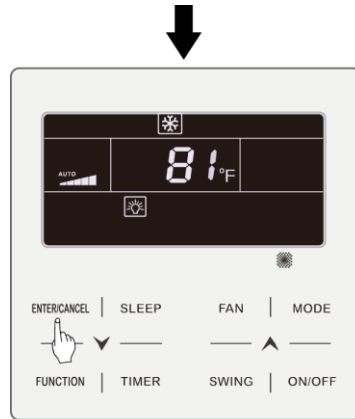
Fig.6.15 Turn on Filter Clean Reminder Function in Celsius



Press FUNCTION button and select Clean



Press "▲" or "▼" button to adjust the cleaning level



Press ENTER/CANCEL button to activate  
Clean function

Fig.6.16 Turn on Filter Clean Reminder Function in Fahrenheit


**Note:**


Description on cleaning level: When setting the Filter Clean Reminder Function, timer zone will display 2 digits, of which the former indicates the pollution degree of operating place and the latter indicates the operating time of indoor unit. There are 4 types of situations:

| Cleaning Level   | Description of Levels  |
|------------------|--|
| Turn off Clean   | Timer zone shows 00  |
| Slight Pollution | The former digit shows 1 while the latter one shows 0, which indicates the accumulating operating time is 5500 hours. Each time the latter digit increases 1, the operating time increases 500 hours. When it reaches 9, it means the operating time is 10000 hours. |
| Medium Pollution | The former digit shows 2 while the latter one shows 0, which indicates the accumulating operating time is 1400 hours. Each time the latter digit increases 1, the operating time increases 400 hours. When it reaches 9, it means the operating time is 5000 hours.  |
| Heavy Pollution  | The former digit shows 3 while the latter one shows 0, which indicates the accumulating operating time is 100 hours. Each time the latter digit increases 1, the operating time increases 100 hours. When it reaches 9, it means the operating time is 1000 hours.   |

## 6.13 X-FAN SETTING


**X-fan Function:** If unit is turned off under Cooling or Dry mode, the evaporator of indoor unit will be dried off automatically to prevent bacteria and mould from gathering.


**Turn on X-fan:** When unit is on or under Cooling or Dry mode, press FUNCTION button to select X-fan. “” icon will blink. Then press ENTER/CANCEL button to turn on this function.

**Turn off X-fan:** When X-fan function is on, press FUNCTION button to select X-fan. “” icon will blink. Then press ENTER/CANCEL button to turn off this function.

## 6.14 ABSENCE SETTING

**Absence Function:** This is used to maintain indoor temperature so that unit can realize fast heating after it is turned on. This function can only be used under Heating mode.



**Turn on Absence Function:** Under Heating mode, press FUNCTION button to select Absence.  icon will blink. Then press ENTER/CANCEL button to turn on this function.

**Turn off Absence Function:** When this function is on, press FUNCTION button to select Absence.  icon will blink. Then press ENTER/CANCEL button to turn off this function.

## 6.15 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.

Remote Shield Function includes all shield and partial shield. When All Shield function is on, all controls of the wired controller are disabled. When Partial Shield function is on, those controls that are shielded will be disabled.

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,  icon will blink to remind that these controls are disabled.





## 6.16 CHILD LOCK FUNCTION

When unit is turned on normally or turned off, pressing “▲” and “▼” button together for 5 seconds will turn on Child Lock function. “” will show on the display. Pressing “▲” and “▼” together again for 5 seconds to turn off this function.

All the other buttons will be disabled when Child Lock function is on.

## 6.17 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, neither remote control nor operation of wired controller will be effective and icon “” will be flickering.

Note: This model cannot be connected with gate control system on its own because it cannot detect gate control signal directly. To realize gate control display and gate control function, it has to be used with wired controller that includes gate control signal detecting function (used as master and slave wired controller).

## 7 ERROR DISPLAY

When there occurs any error during operation, the temperature display zone on the wired controller will show error codes. 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 send for professionals to repair.

Fig.7.1 is the display of Outdoor Unit High Pressure Protection when unit is on.

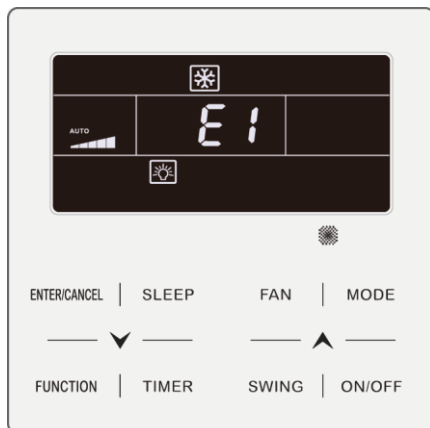


Fig.7.1 Display of Outdoor Unit High Pressure Protection

## 7.1 TABLE OF ERROR CODES FOR OUTDOOR UNIT

| Error Code | Content   | Error Code | Content  | Error Code | Content   |
|------------|---|------------|--|------------|---|
| E0         | Outdoor Unit Error                                    | FL         | Compressor 3 Current Sensor Error                  | b4         | Subcooler Liquid-out Temperature Sensor Error             |
| E1         | High Pressure Protection                              | Fn         | Mode Exchanger Inlet Pipe Temperature Sensor Error | b5         | Subcooler Gas-out Temperature Sensor Error                |
| E2         | Discharge Low Temperature Protection                  | FP         | Malfunction of DC motor                            | b6         | Gas-liquid separator inlet temperature sensor error       |
| E3         | Low Pressure Protection                               | FU         | Compressor 2 Top Temperature Sensor Error          | b7         | Gas-liquid separator outlet temperature sensor error      |
| E4         | Excess Discharge Temperature Protection of Compressor | J1         | Compressor 1 Over-current Protection               | b8         | Outdoor Humidity Sensor Error                             |
| F0         | Bad Performance of the Outdoor Mainboard              | J2         | Compressor 2 Over-current Protection               | b9         | Heat Exchanger Gas-out Temperature Sensor Error           |
| F1         | High Pressure Sensor Error                            | J3         | Compressor 3 Over-current Protection               | bA         | Oil-return Temperature Sensor Error                       |
| F3         | Low Pressure Sensor Error                             | J4         | Compressor 4 Over-current Protection               | bC         | Compressor 1 Top Temperature Sensor Detachment Protection |
| F5         | Compressor 1 Discharge Temperature Sensor             | J5         | Compressor 5 Over-current Protection               | bE         | Malfunction of entry tube temperature sensor of           |

| Error Code | Content   | Error Code | Content                                | Error Code | Content   |
|------------|---|------------|--|------------|---|
|            | Error   |            |  |            | condenser   |
| F6         | Compressor 2 Discharge Temperature Sensor Error     | J6         | Compressor 6 Over-current Protection   | bF         | Malfunction of exit tube temperature sensor of condenser  |
| F7         | Compressor 3 Discharge Temperature Sensor Error     | J7         | 4-way Valve Blow-by Protection         | bH         | System Clock Malfunction                                  |
| F8         | Compressor 4 Discharge Temperature Sensor Error     | J8         | System Pressure Over-Ratio Protection  | bJ         | High and low pressure sensors are connected inversely     |
| F9         | Compressor 5 Discharge Temperature Sensor Error     | J9         | System Pressure Under-Ratio Protection | bL         | Compressor 2 Top Temperature Sensor Detachment Protection |
| FA         | Compressor 6 Discharge Temperature Sensor Error     | JA         | Protection of Abnormal Pressure        | P0         | Compressor Drive Board Error                              |
| Fb         | Compressor 2 Top Temperature Sensor Error           | JC         | Protection of Water Flow Switch        | P1         | Compressor Drive Board Malfunction                        |
| FC         | Compressor 2 Current Sensor Error                   | JE         | Oil return pipe is blocked             | P2         | Protection of Compressor Drive Board Power Supply         |
| Fd         | Mode Exchanger Outlet Pipe Temperature Sensor Error | JF         | Oil return pipe is leaking             | P3         | Protection of Compressor Drive Board Module Reset         |
| FE         | Compressor 4 Current Sensor Error                   | JL         | Protection of Low High-pressure        | H0         | Error of Fan Drive Board                                  |

## Wired Controller

| Error Code | Content                           | Error Code | Content                                  | Error Code | Content                                    |
|------------|-----------------------------------|------------|--|------------|--|
| FF         | Compressor 5 Current Sensor Error | b1         | Outdoor Ambient Temperature Sensor Error | H1         | Malfunction of Fan Drive Board             |
| FH         | Compressor 1 Current Sensor Error | b2         | Defrosting Temperature Sensor 1 Error    | H2         | Protection of Fan Drive Board Power Supply |
| FJ         | Compressor 6 Current Sensor Error | b3         | Defrosting Temperature Sensor 2 Error    |            |  |

## 7.2 TABLE OF ERROR CODES FOR INDOOR UNIT

| Error Code | Content                             | Error Code | Content  | Error Code | Content                             |
|------------|-------------------------------------|------------|--|------------|-------------------------------------|
| L0         | Indoor Unit Error                   | LF         | Shunt Valve Setting Error  | d9         | Jumper Cap Error                    |
| L1         | Indoor Fan Protection               | LH         | Low Air Quantity Warning   | dA         | Indoor Unit Hardware Address Error  |
| L2         | E-heater Protection                 | LJ         | Wrong Setting of Function DIP Switch   | db         | Special Code: Field Debugging Code  |
| L3         | Water Full Protection               | LP         | Zero-crossing malfunction of PG motor  | dC         | Capacity DIP Switch Setting Error.  |
| L4         | Wired Controller Power Supply Error | LU         | Inconsistent Branch of Group-controlled Indoor Units in Heat Recovery System | dE         | Indoor Unit CO2 Sensor Error        |
| L5         | Anti-Frosting Protection            | d1         | Indoor Unit PC-Board Error   | dH         | Wired Controller PC-Board Error     |
| L7         | No Master Indoor Unit Error         | d3         | Ambient Temperature Sensor Error   | dL         | Outlet Air Temperature Sensor Error |

| Error Code | Content  | Error Code | Content                                       | Error Code | Content                                   |
|------------|--|------------|---|------------|---|
| L8         | Power Insufficiency Protection   | d4         | Inlet Pipe Temperature Sensor Error           | dn         | Swing Assembly Error                      |
| L9         | Quantity Of Group Control Indoor Units Setting Error                             | d5         | Malfunction of middle tube temperature sensor | y7         | Fresh Air Inflow Temperature Sensor Error |
| LA         | Indoor Units Incompatibility Error   | d6         | Outlet Pipe Temperature Sensor Error          | y8         | Indoor Air Box Sensor Error               |
| Lb         | Inconsistency of Group-controlled Indoor Units in Reheat Dehumidification System | d7         | Humidity Sensor Error                         | y9         | Outdoor Air Box Sensor Error              |
| LC         | Outdoor-Indoor Incompatibility Error   | d8         | Water Temperature Abnormality                 |            |   |

## 7.3 TABLE OF DEBUGGING CODES

| Error Code | Content   | Error Code | Content   | Error Code | Content  |
|------------|---|------------|---|------------|--|
| U2         | Outdoor Unit Capacity Code/Jumper Cap Setting Error | UL         | Emergency Operation DIP switch setting of the compressor is wrong.  | CE         | Communication Failure Between Mode Exchanger and Indoor Unit |
| U3         | Phase Sequence Protection of Power Supply           | C0         | Communication between indoor unit and outdoor unit and the communication between indoor unit and wired controller have malfunction. | CF         | Error of Multiple Master Indoor Unit                         |
| U4         | Protection of Lack of Refrigerant                   | C2         | Communication error between master control and inverter compressor drive  | CH         | Rated capacity is too high.                                  |

## Wired Controller

| Error Code | Content  | Error Code | Content   | Error Code | Content   |
|------------|--|------------|---|------------|---|
| U5         | Wrong Address of Compressor Drive Board            | C3         | Communication error between master control and inverter fan motor drive | CJ         | System addresses is incompatible.                           |
| U6         | Valve Abnormal Alarm                               | C4         | Error of Lack of Indoor Unit  | CL         | Rated capacity is too low.                                  |
| U8         | Indoor Unit Tube Malfunction                       | C5         | Alarm of Indoor Unit Project Number Collision                           | Cn         | Indoor and Outdoor Network Error of Mode Exchanger          |
| U9         | Outdoor Unit Tube Malfunction                      | C6         | Alarm of Wrong Number of Outdoor Unit                                   | CP         | Error of Multiple Master Wired Controller                   |
| UC         | Master indoor unit is successfully set.            | C7         | Mode Exchanger Communication Error                                      | CU         | Communication Error between Indoor Unit and Remote Receiver |
| UE         | Refrigerant Charging is ineffective.               | Cb         | Outflow of Units IP Address   | Cy         | Communication Error of No Master in Mode Exchanger          |
| UF         | Indoor Unit Identification Error of Mode Exchanger | Cd         | Communication Failure Between Mode Exchanger and Outdoor Unit           |            |   |

## 7.4 TABLE OF STATUS CODES

| Error Code | Content                                    | Error Code | Content               | Error Code | Content               |
|------------|--|------------|-----------------------|------------|-----------------------|
| A0         | Unit is waiting for debugging.             | A8         | Vacuum-pumping Mode   | AJ         | Filter Clean Reminder |
| A1         | Check the compressor operation parameters. | Ab         | Emergency Stop        | AU         | Remote Urgent Stop    |
| A2         | After-sales Refrigerant Reclaim            | Ad         | Operation Restriction | n3         | Compulsory defrosting |
| A3         | Defrosting                                 | AC         | Cooling               | qE         | EVI Operating Mode    |
| A4         | Oil return                                 | AF         | Fan                   |            |                       |
| A5         | Online Testing                             | AH         | Heating               |            |                       |





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