GREE

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Owner's Manual

Original Instructions

Wired Controller XK46

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

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

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

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 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. 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.

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 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.

◆ 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		As for the outdoor unit with AI function, once AI function is turned on, AI icon is displayed.
2		Up and down swing function.
3	AUTO TURBO	Current set fan speed (including auto, low speed, medium-low speed, medium speed, medium-high speed, high speed and turbo seven status).

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No.	Symbols	Instructions
4	☾	Sleep status.
5	SAVE	Outdoor unit operates under Save mode/upper limit of system capacitor less 100%/remote Save status.
6	🏠*	Air status, Indoor unit optional function.
7	CLEAN	Remind to clean the filter.
8	🎧	Quiet status (including Quiet and Auto Quiet two status).
9	☼	Light On/Off function.
10	X-FAN	X-fan function.
11	🌲*	Health function, Indoor unit optional function.
12	FRESH AIR*	Fresh air control function of AHU-KIT.
13	🏠	Absence function.
14	DEFROST	Outdoor unit defrosting status.
15	📤	Gate-control function.
16	SHIELD	Shielding status.
17	🔒	Child Lock status.

No.	Symbols	Instructions
18	GROUP	One wired controller controls multiple indoor units.
19	$\circledS$	Save status of indoor unit.
20	MEMORY	Memory status (The indoor unit resumes the original setting state after power failure and then power recovery).
21		It indicates the current wired controller is the slave wired controller (address of wired controller is 02).
22	MASTER	Current wired controller connects master indoor unit.
23	$\bigcirc$	Invalid operation.
24	88:88 ON OFF DAY HOUR	Timer zone: Display system clock and timer status.
25	CHECK	Display "CHECK" icon under parameter view interface.
26	*	Space Heating mode.
27	SET	Display "SET" icon under parameter setting interface.
28	$\frac{555}{}$ *	Floor Heating mode (When Heating and Floor Heating simultaneously shows up, it indicates 3D Heating is activated).
29	NO.	When inquiring or setting project number of indoor unit, it displays "NO." icon.

No.	Symbols	Instructions
30	☼	Heating mode.
31	❀	Fan mode.
32	♨	Dry mode.
33	❄	Cooling mode.
34	$\boxed{888}^{°C}_{°F}$	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).
35	△	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).
36	MAX MIN	It's valid under Save mode and displays during setting process. Temperature lower limit for Cooling: Limit the minimum temperature value under Cooling or Dry mode. Temperature upper limit for Heating: Limit the maximum temperature value under Heating, Space Heating or 3D Heating mode.
37	☲ *	Left and right swing function.
38	VOTE	Indicates that the current system mode priority is voting mode.

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

4 Buttons
4.1 Button Graphics
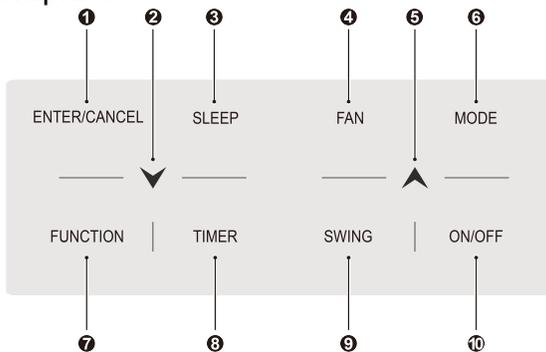
Fig. 4.1 Button graphics

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.

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No.	Buttons	Instructions
5	⋀	(2) Set Timer. (3) Switch Quiet mode, Air grade, Clean grade, set upper and lower temperature limit under Save mode. (4) Set and inquiry parameter.
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

Unit: mm
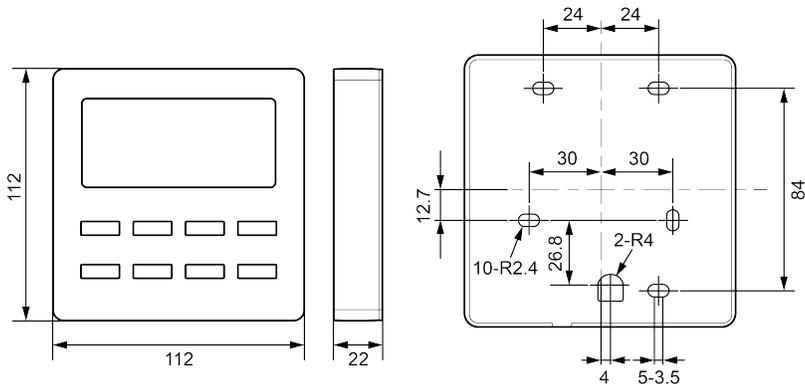
Fig. 5.1.1 Dimension of wired controller

❶   ❷   OR   ❸   ❹
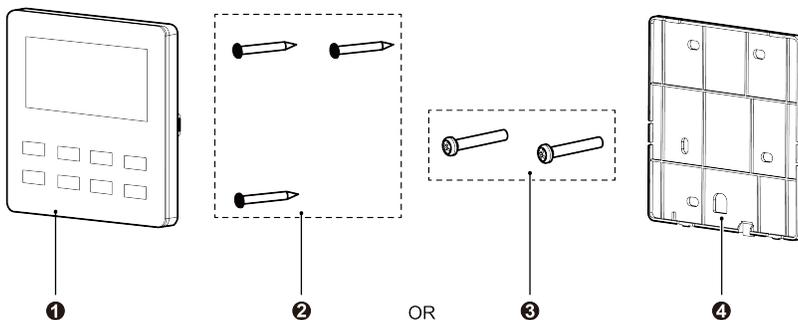
Fig. 5.1.2 Parts of wired controller

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

5.1 Installation of Wired Controller

5.1.1 Communication Line Selection

$$L=L01+L02+L1+L2+......+L(n-1)(n{\leq}16)$$
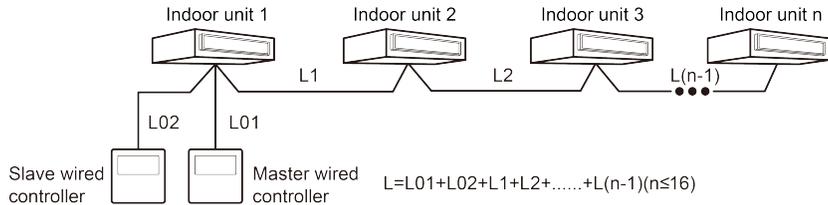
Fig. 5.2 Length of communication line

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Wire material type	Total length of communication line between indoor unit and wired controller L (m/feet)	Wire size (mm²/AWG)	Material standard	Remarks
Light/Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤250m (L≤820-1/5feet)	2×0.75mm² ~2×1.25mm² (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.

NOTES:

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:
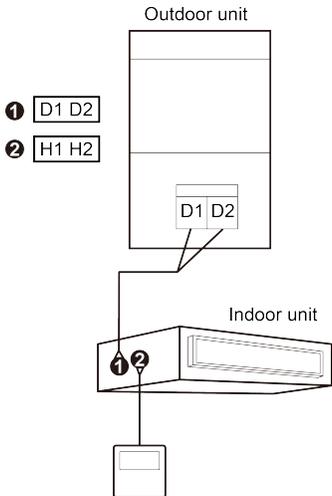
Fig. 5.3 One wired controller controls
one indoor unit
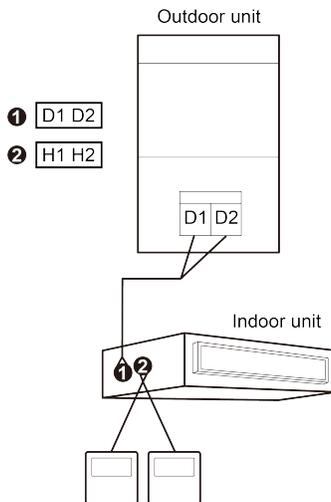
Fig. 5.4 Two wired controllers control
one indoor unit
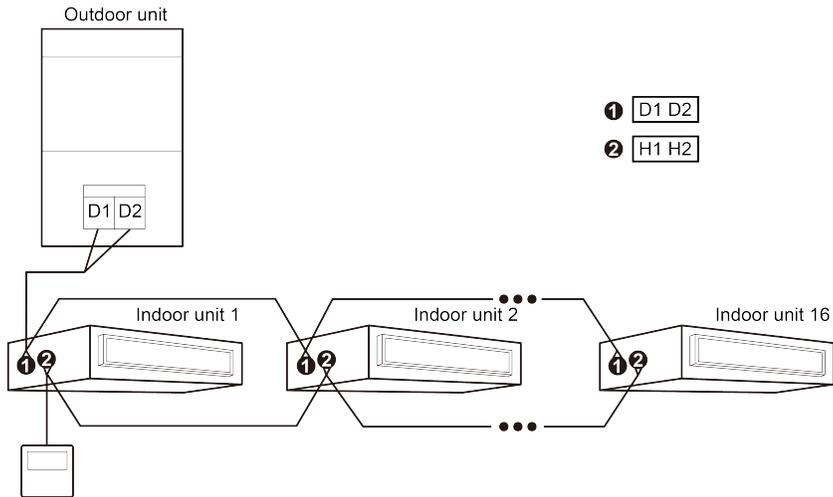
Fig. 5.5 One wired controller controls multiple indoor units simultaneously
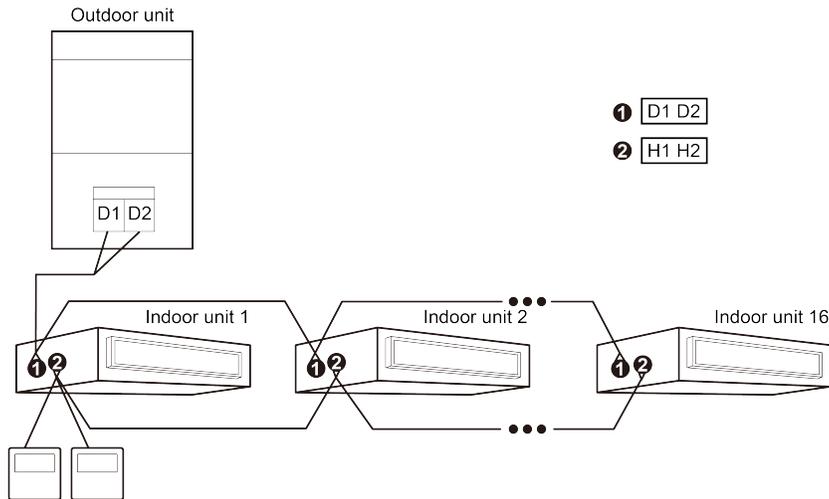
Fig. 5.6 Two wired controllers control multiple indoor units simultaneously

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 Parameter Setting.

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(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 Parameter 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; ③ Double-heat Sources Units; ④ Combined 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
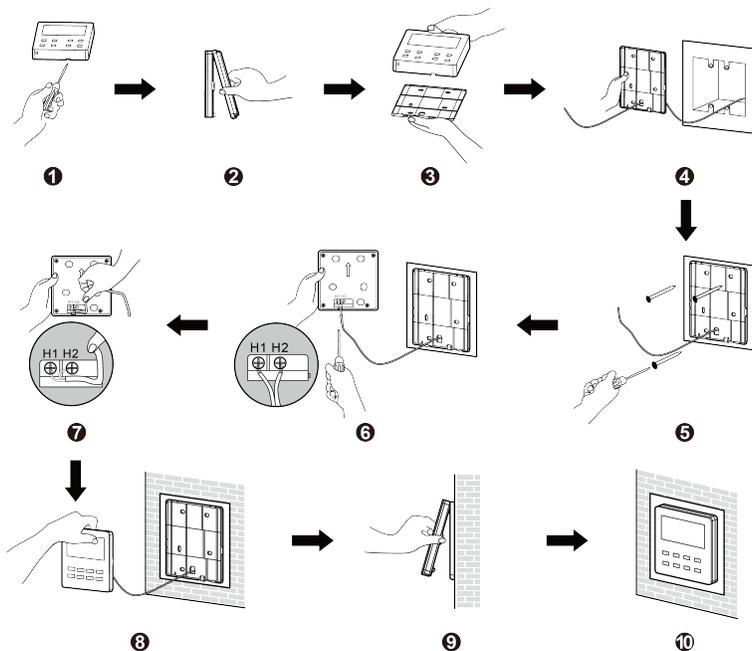
Fig. 5.7 Installation diagram for wired controller

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 ST3.9×25 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
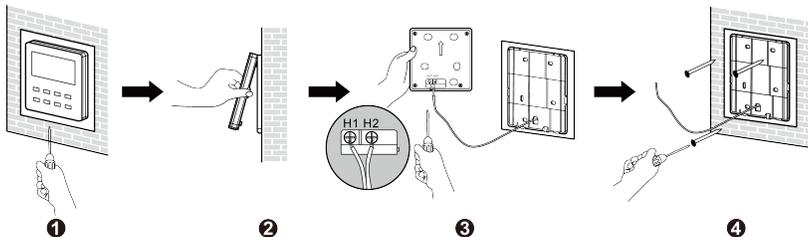
Fig. 5.8 Disassembly diagram of wired controller

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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. If the system mode priority is the master-slave mode, "MASTER" icon will be light after finishing setting.

NOTES:

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; Project number of online indoor unit	Operation method: 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. Display method: 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) . Timer zone: displays present indoor unit project number /C5 malfunction of project number conflict.

Parameter code	Parameter name	Parameter range	Viewing method
C01	View the project number of indoor unit and locate the faulted indoor unit	1-255; Project number of online indoor unit	**NOTES:** 1) When the system mode priority is the master-slave mode, 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. 2) System will not exit "C01" viewing automatically. User has to exit this interface manually.
C03	View the indoor unit quantity of the system network	1-100	Timer zone: display indoor unit quantity of the system.

Parameter code	Parameter name	Parameter range	Viewing method
C06	View priority operation	00: normal operation 01: priority operation	Operation method: Enter viewing: press "MODE" button in "C06" status to enter the interface of viewing priority operation. Press "▲" or "▼" button to select indoor unit. Display method: Temperature zone: displays current indoor unit project number. Timer zone: displays current priority operation setting value of indoor unit.
C07	View indoor ambient temperature	—	Operation method: Enter viewing: press "MODE" button in "C07" status to enter the interface of viewing indoor ambient temperature. Press "▲" or "▼" button to select indoor unit. Display method: Temperature zone: displays current indoor unit project number; Timer zone: displays indoor ambient temperature.

Parameter code	Parameter name	Parameter range	Viewing method
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.
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.

Parameter code	Parameter name	Parameter range	Viewing method
C12	View outdoor ambient temperature	—	Timer zone: displays outdoor ambient temperature.
C17	View indoor relative humidity	20~90 relative humidity 20%~90%	Operation method: 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. Display method: Temp area: display current indoor unit's project number. Timer zone: display indoor relative humidity.

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	Operation method: 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. Display method: Temperature zone: displays number of the current indoor unit Timer zone: displays project number of indoor unit **NOTES:** 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) .

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	2) Slave wired controller cannot view "C18". Cancel method: 1) If user exits the "C18" interface manually, the one-button viewing function will be immediately turned off. 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. 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.

Parameter code	Parameter name	Parameter range	Viewing method
C20	View the air outlet temperature of Fresh Air Indoor Unit*	—	Operation method: 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. Display method: Temperature zone: displays current indoor unit project number Timer zone: displays air outlet temperature of Fresh Air Indoor Unit Note: only applicable to Fresh Air Indoor Unit.
C23	Version inquiry	—	Timer zone: program version of the current wired controller.

NOTES:

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 "$\wedge$" or "$\vee$" button to select parameter code. Press "MODE" button to enter parameter setting. At that time, parameter value is blinking. Press "$\wedge$" or "$\vee$" 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 01: set current indoor unit as master indoor unit	00	When set the corresponding indoor unit of wired controller as master indoor unit, if the system mode priority is the master-slave mode, the "MASTER" icon will be bright after finishing setting.

Parameter code	Parameter name	Parameter range	Default value	Note
P11	Set infrared receiver of wired controller	00: forbidden 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 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.
P14	Set quantity of group control indoor units	00: forbid this function 01-16: indoor unit quantity	01	Set the corresponding value according to the connected indoor unit quantity.

Parameter code	Parameter name	Parameter range	Default value	Note
P16	Set unit of temperature	00:Celsius 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: 5 levels: 03, 04, 05, 06, 07 9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09 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.

Parameter code	Parameter name	Parameter range	Default value	Note
P31	High ceiling installation*	00: installation height of standard ceiling 01: installation height of high ceiling	00	Only applicable to cassette units.
P33	Set Timer	00: general timer 01: clock timer	00	—
P34	Clock Timer repetition is valid	00: once 01: repeat everyday	01	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.
P38	Heating setting temperature under auto mode	16°C~29°C (61°F~84°F)	20°C (68°F)	When the temperature unit is°F, cooling setting temperature minus heating setting temperature≥2°F.

Parameter code	Parameter name	Parameter range	Default value	Note
P43	Set priority operation	00: normal operation 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 01: clear	00	—
P49	Opening angle of indoor unit air-return plate*	01: angle 1(25°) 02: angle 2(30°) 03: angle 3(35°)	02	Only applicable to units with air-return plate.
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.

Parameter code	Parameter name	Parameter range	Default value	Note
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 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. Note: only applicable to Fresh Air Indoor Unit.
P74	When inserting the card, whether to resume to previous status	00: No 01：yes	01	When it is set as 00, it will keep the status after inserting the gate control card, that is, if it is OFF status when pulling out the card, when inserting the card, it is still OFF status.

Parameter code	Parameter name	Parameter range	Default value	Note
P76	PM2.5 filter function*	00: invalid 01: valid	00	When it is set as 01, PM2.5 filter function is activated.
P78	Cold air prevention time setting of indoor unit*	00: 180s 01: 300s 02: 420s 03: 600s	00	Cold air prevention time is the max waiting time from the time turning on the heating mode to the time blowing out the hot wind. The actual waiting time is related to the outdoor ambient temperature. If there is cold air after turning on the heating mode in the actual operation, please consult the professional person to adjust this parameter.

Parameter code	Parameter name	Parameter range	Default value	Note
P82	Set time format	00: 24-hour 01: 12-hour	00	When it is set as 01 and the timer setting way is clock timer, the system time in the homepage will be displayed in 12 hour-clock without an AM/PM indicator. The setting of the system time and the clock timer will not be affected by it.

NOTES:

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.
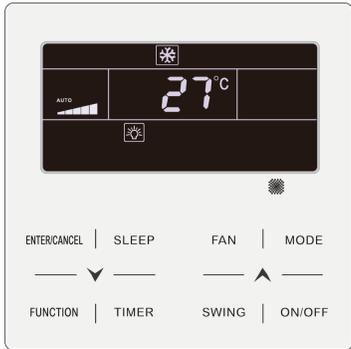
Fig. 6.1 Interface of On status in Celsius

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:

OR
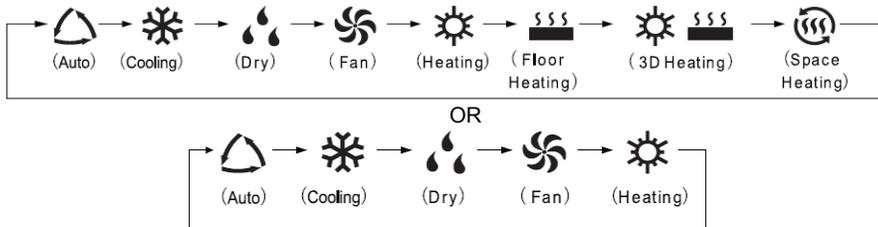
NOTES:

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 Only the master indoor unit under the master-slave mode can set the auto mode.

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).

NOTES:

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.
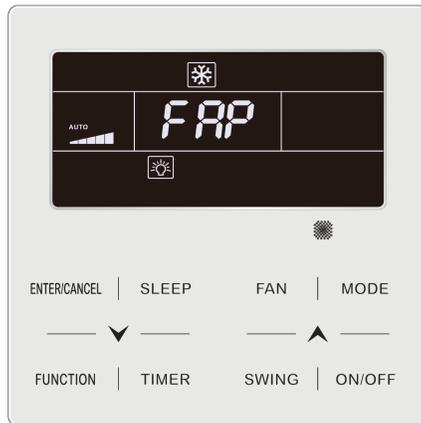
6.4 Fan Setting

(1) Under On status, pressing "FAN" button can set fan speed circularly as:
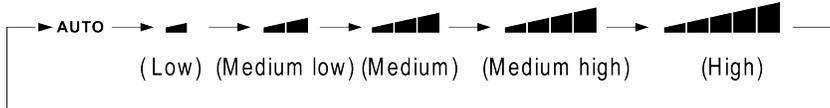
(2) Turbo function setting

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/CANCLE" button to start Turbo function. When Turbo function is activated, Turbo function icon " **TURBO** "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/CANCLE" button to cancel Turbo function ; Press "FAN" button to cancel turbo function and start auto speed.

NOTES:

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

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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 "ʌ" or "v" button to adjust timer time

Press TIMER button to finish timer setting
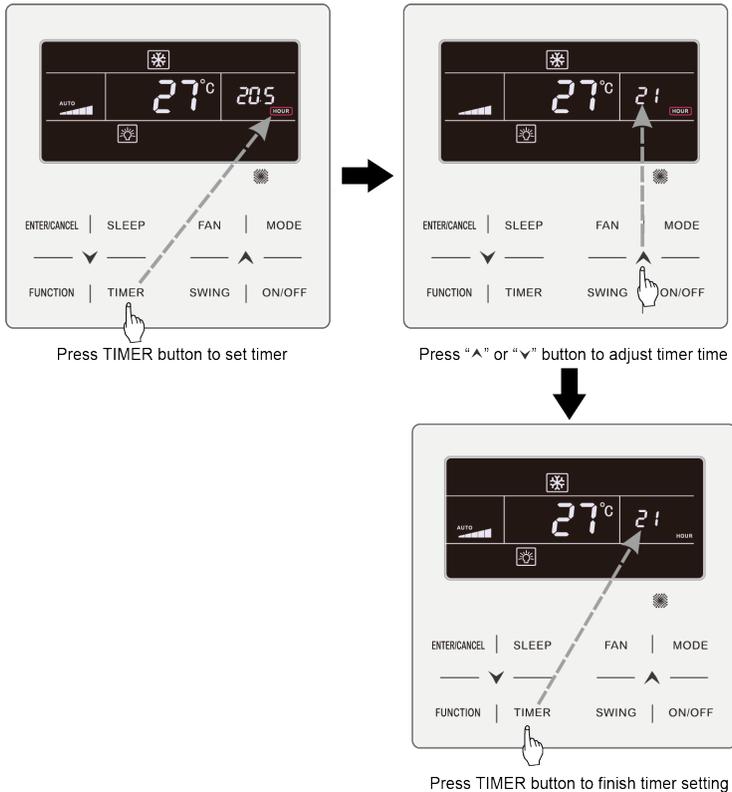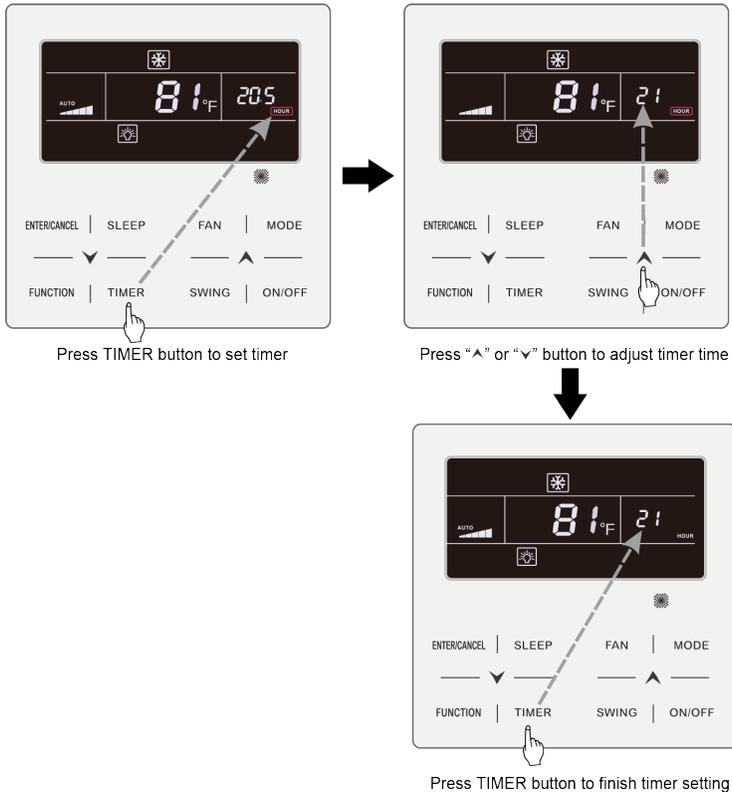
Fig. 6.6 Timer Off setting in unit On status in Fahrenheit

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.

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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:
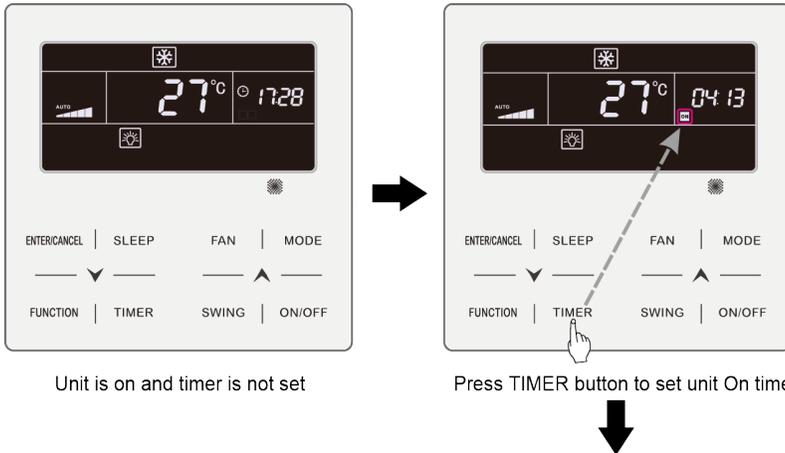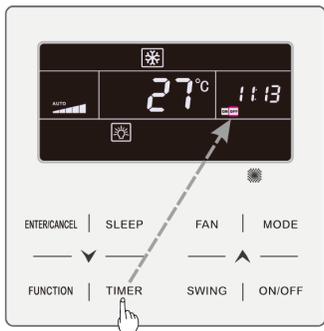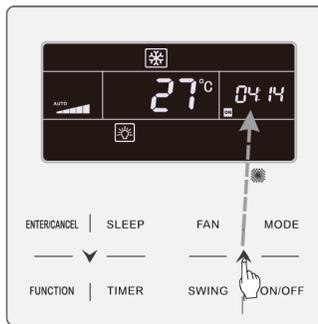
Unit is on and timer is not set   Press TIMER button to set unit On time

Press TIMER button to switch to unit Off time setting

Press " ∧ " or " ∨ " button to adjust unit On time
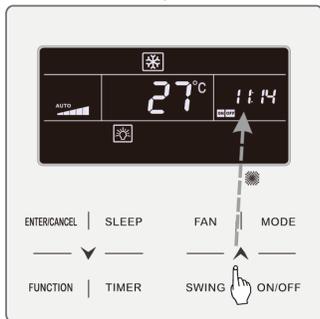
Press " ∧ " or " ∨ " button to adjust unit Off time

Press ENTER/CANCEL button to finish setting

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

Unit is on and timer is not set
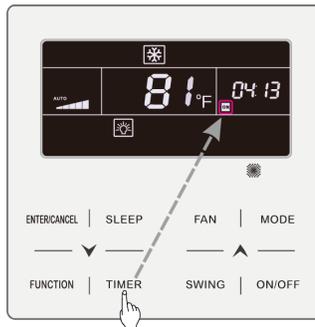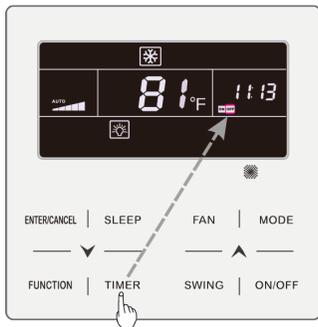
Press TIMER button to set unit On time

Press TIMER button to switch to unit Off time setting
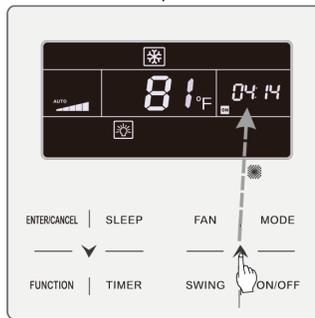
Press " ∧ " or " ∨ " button to adjust unit On time
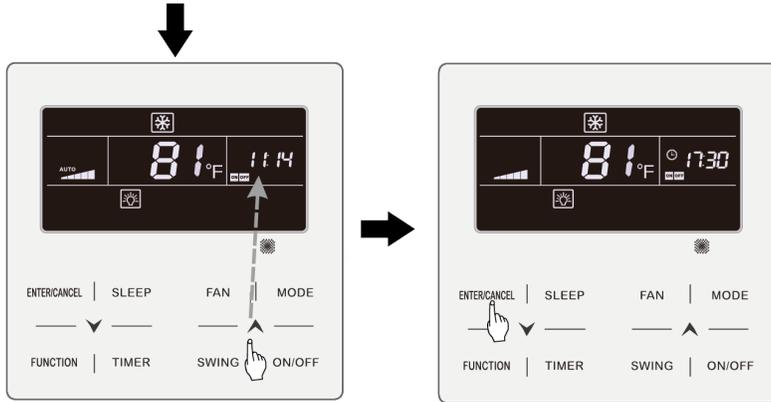
Press " ∧ " or " ∨ " button to adjust unit Off time

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.

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

$$\leftarrow\text{(closed)}\longrightarrow \text{≥|} \rightarrow \text{`|} \rightarrow \text{`|} \rightarrow \text{-|} \rightarrow \text{,|} \rightarrow \text{,|} \rightarrow \text{≥|} \rightarrow \text{≥|} \rightarrow \text{≥|} \rightarrow \text{≥|} \rightarrow \text{≥|}\leftarrow$$
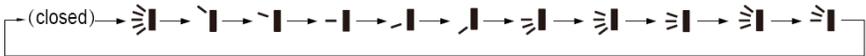
(2) Left & right swing function*:

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/CANCLE" 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/CANCLE" 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.

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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
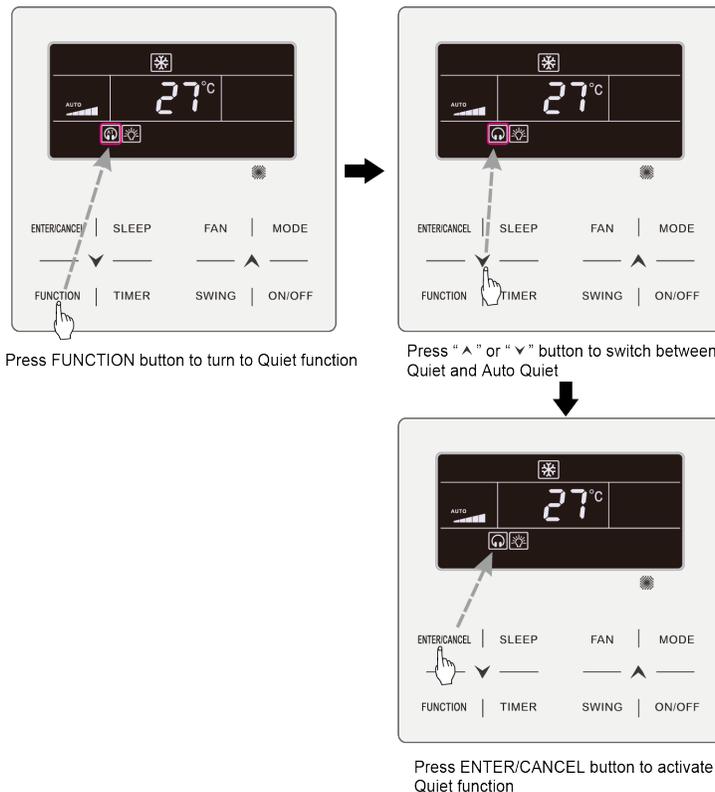
Fig. 6.9 Setting of Quiet function in Celsius

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
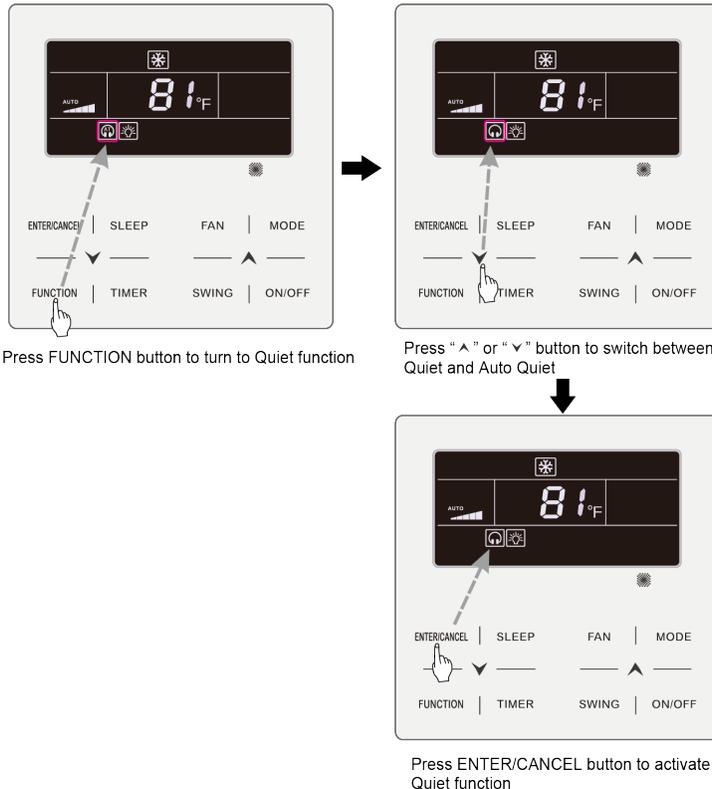
Fig. 6.10 Setting of Quiet function in Fahrenheit

NOTES:

① When Quiet function is enabled, indoor unit will operate at quiet fan speed. Fan

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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, "$\mathbb{C}_{**}^*$" 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. "$\stackrel{\wedge}{\underleftarrow{}}$" icon will blink and the unit enters into Air setting. Temperature zone shows the level of Air setting, which can be adjusted by pressing "$\wedge$" or "$\vee$" 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
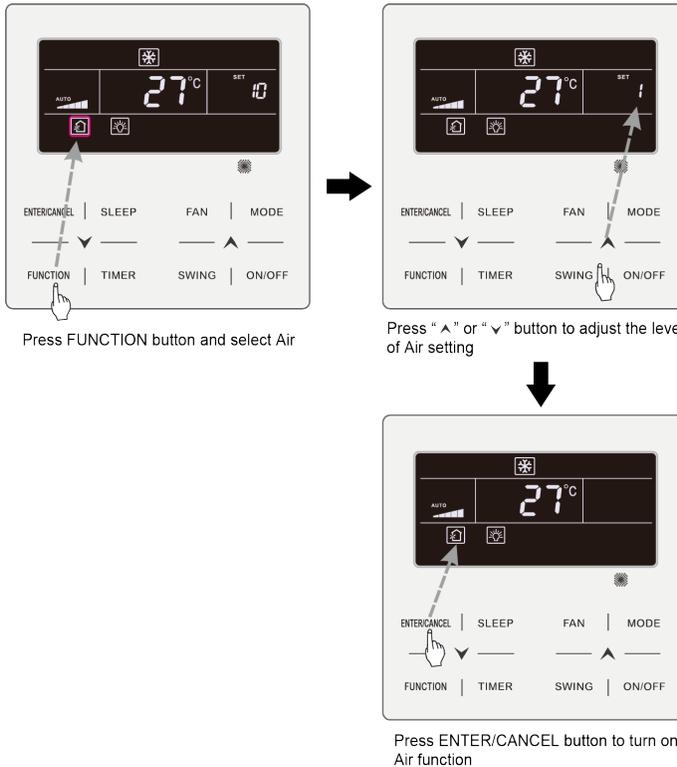
Fig.6.11 Turn on Air Function in Celsius

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
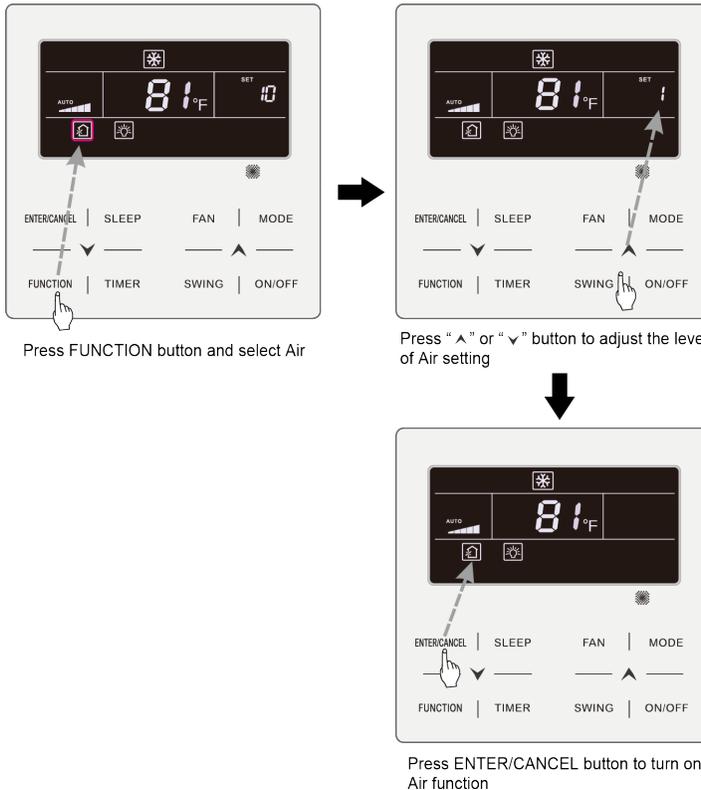
Fig.6.12 Turn on Air Function in Fahrenheit

NOTES:

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 60minutes, 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. "⑤" 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
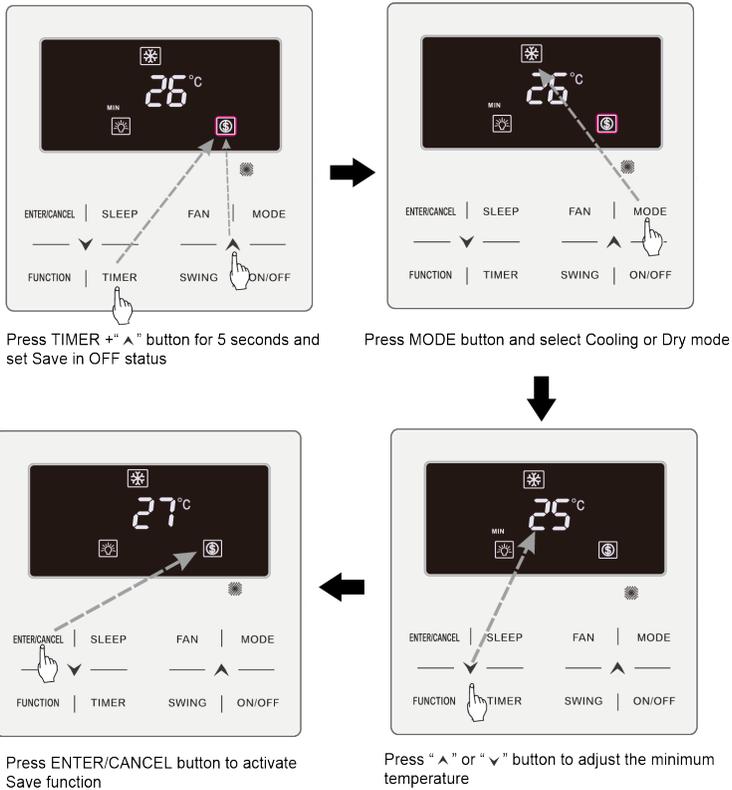
Fig.6.13 Save Setting for Cooling in Celsius
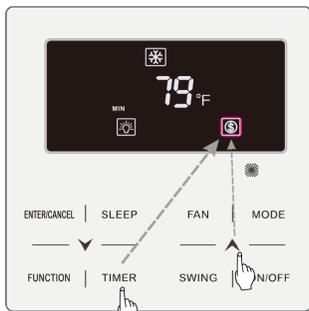
Press TIMER +" ∧ " button for 5 seconds and set Save in OFF status
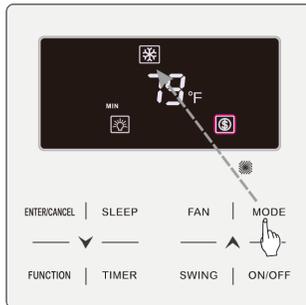
Press MODE button and select Cooling or Dry mode

Press ENTER/CANCEL button to activate Save function
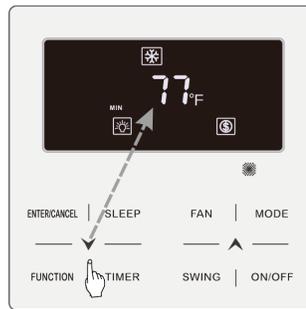
Press " ∧ " or " ∨ " button to adjust the minimum temperature

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 filer. 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 "∨"

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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 filer. 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 FUNCTION button and select Clean

Press "∧" or "∨" button to adjust the cleaning level

Press ENTER/CANCEL button to activate Clean function
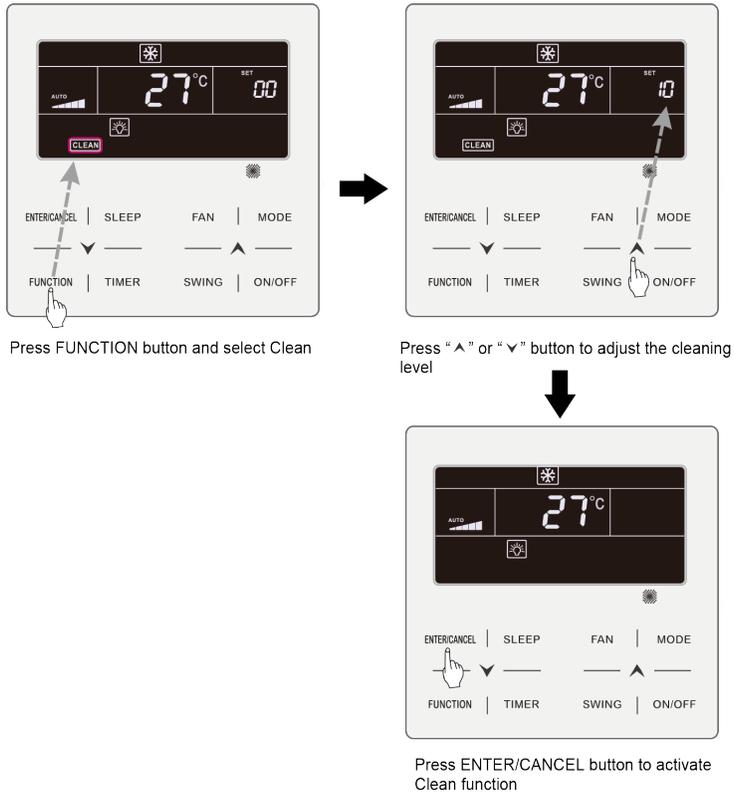
Fig.6.15 Turn on Filter Clean Reminder Function in Celsius

Press FUNCTION button and select Clean

Press " ∧ " or " ∨ " button to adjust the cleaning level

Press ENTER/CANCEL button to activate Clean function
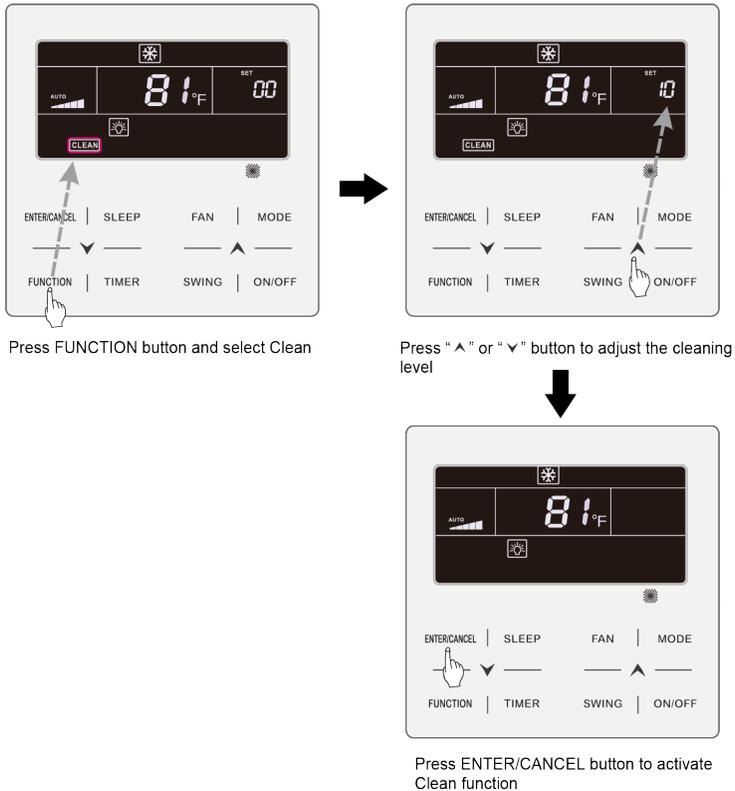
Fig.6.16 Turn on Filter Clean Reminder Function in Fahrenheit

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. " 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. " X-FAN " icon will blink. Then press "ENTER/CANCEL" button to turn off this function.

6.14 Health Setting*

Health Function: Control the air purification module which can purify air. This function cannot be used under Floor Heating mode.

Turn on Health Function: When unit is on, press "FUNCTION" button to select Health. " 全 " icon will blink. Then press "ENTER/CANCEL" button to turn on this function.

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

6.15 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.

6.16 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, " SHIELD " icon will show. If user wants to control through the wired controller, " SHIELD " icon will blink to remind that these controls are disabled.

6.17 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.

6.18 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 salve wired controller).

6.19 Inquiry of Indoor Temperature with One Button

In the homepage, after pressing and holding "ENTER/CANCEL" button for 5 seconds, the wired controller will display the indoor temperature for 5 seconds. Within the 5 seconds, it can quit displaying the indoor temperature immediately and be

responded to the instructions as usual after pressing any buttons.

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.
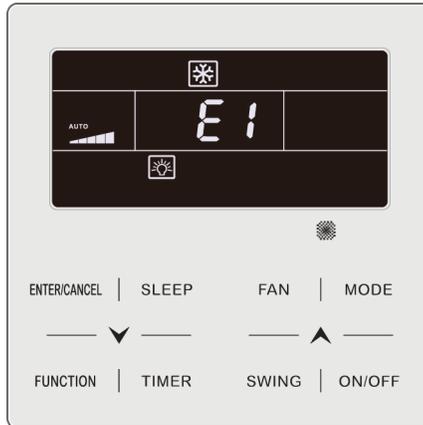
Fig.7.1 Display of Outdoor Unit High Pressure Protection

7.1 Table of Error Codes for Outdoor Unit

Error Code	Content	Error Code	Content
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	—	—

7.2 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
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

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

7.3 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

Error Code	Content	Error Code	Content
U4	Protection of Lack of Refrigerant	C2	Communication error between master control and inverter compressor drive
U5	Wrong Address of Compressor Drive Board	C3	Communication error between master control and inverter fan motor drive
U6	Valve Abnormal Alarm	C4	Error of Lack of Indoor Unit
U7	Grid DRED0 Response Protection	C5	Alarm of Indoor Unit Project Number Collision
U8	Indoor Unit Tube Malfunction	C6	Alarm of Wrong Number of Outdoor Unit
U9	Outdoor Unit Tube Malfunction	C7	Mode Exchanger Communication Error
UA	Overvoltage Protection of DC Bus Bar in Power Grid Side	CH	Rated capacity is too high
UH	Undervoltage 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

Error Code	Content	Error Code	Content
UP	Protection shutdown error of thermal storage module	CU	Communication Error between Indoor Unit and Remote Receiver
UU	Electronic expansion valve leak error of thermal storage module	Cb	Outflow of Units IP Address
Ub	Protection without shutdown error of thermal storage module	Cd	Communication Failure Between Mode Exchanger and Outdoor Unit
Ud	Grid-connection driver board error	Cn	Indoor and Outdoor Network Error of Mode Exchanger
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	—	—

7.4 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

Error Code	Content	Error Code	Content
A4	Oil return	q8	Discharge low temperature protection revision value b
A5	Online Testing	q9	Setting of defrosting mode
A8	Vacuum-pumping Mode	qL	Setting of static pressure
A9	Operate in Setback Function	qE	EVI Operating Mode
AH	Heating	qF	System compulsory cooling mode
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	—	—

GREE

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai,Guangdong, China, 519070
Tel: (+86-756) 8522218
Fax: (+86-756) 8669426
E-mail: gree@gree.com.cn   www.gree.com

66174100010