AZURI®

Wired Controller XK46

DELTRON®

User 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.
- When two wired controllers control one (or more) indoor unit(s), the address of wired controller should be different.

CONTENTS

1 DISPLAY

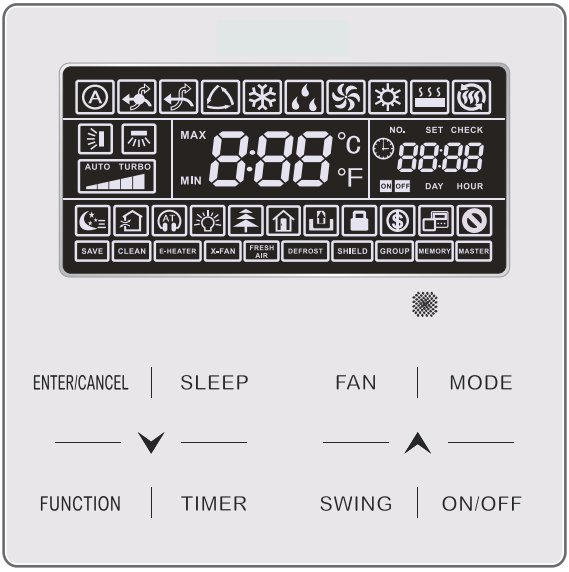


Fig. 1.1 Appearance of wired controller

1.1 LCD of Wired Controller

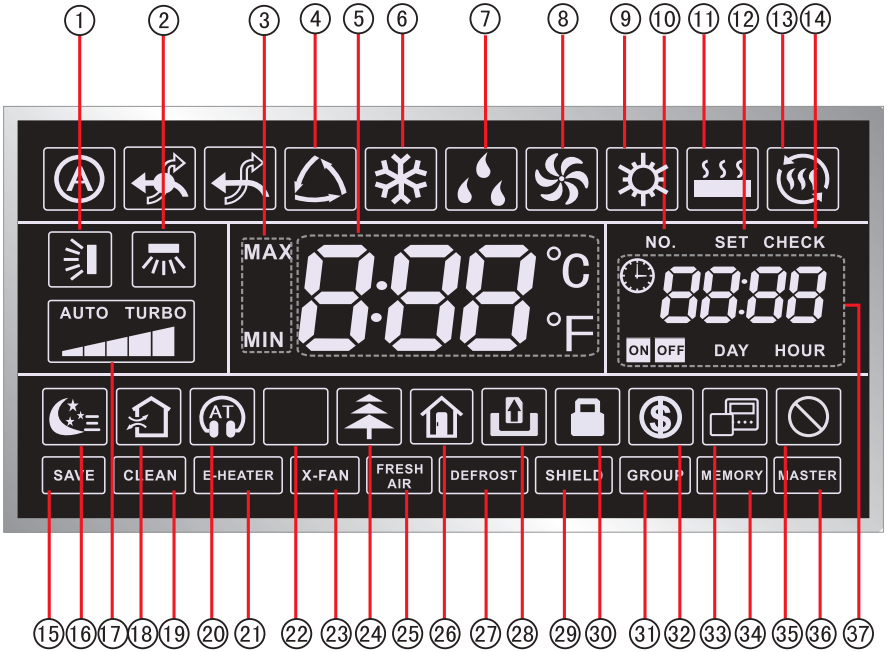


Fig. 1.2 LCD graphics of wired controller

1.2 LCD Display Instruction

Table 1.1 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. 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, Floor 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
6		Cooling mode
7		Dry mode
8		Fan mode
9		Heating mode
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
19		Remind to clean the filter
20		Quiet status (including Quiet and Auto Quiet two status)
21		Allow auxiliary electric heating On icon

22		Light On/Off function
23	X-FAN	X-fan function
24		Health function
25	FRESH AIR	When Fresh Air is on, this unit is the fresh air unit
26		Out function
27	DEFROST	Outdoor unit defrosting status
28		Gate-control function
29	SHIELD	Shielding status
30		Child Lock status
31	GROUP	One wired controller controls multiple indoor units
32		Save status of indoor unit
33		It indicates the current wired controller is the slave wired controller (address of wired controller is 02)
34	MEMORY	Memory status (The indoor unit resumes the original setting state after power failure and then power recovery)
35		Invalid operation
36	MASTER	Current wired controller connects master indoor unit
37		Timer zone:Display system clock and timer status
Note: When wired controller is connected with different indoor units, some functions will be different		

2. BUTTONS

2.1 Button Graphics

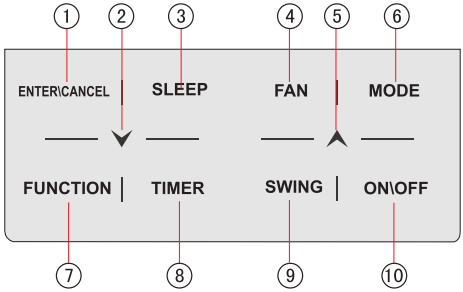


Fig. 2.1 Button graphics

2.1 Function Instruction of Buttons

Table 2.1 Function instruction of buttons

No.	Buttons	Instructions
1	ENTER/ CANCEL	Select and cancel function
2	⮟	(1) Set operating temperature of indoor unit (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
5	⮝	
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, Out, Save, Clean, E-heater and X-fan functions.
8	TIMER	Timer setting
9	SWING	Set up and down swing , left and right swing status
10	ON/OFF	Indoor unit On/Off
2+5	⮝+⮟	Simultaneously press “⮝” and “⮟” for 5s to enter or cancel the Child Lock function.

3. INSTALLATION AND COMMISSIONING

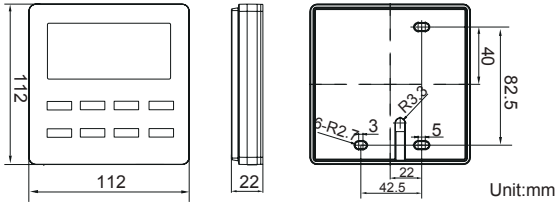


Fig. 3.1.1 Dimension of wired controller

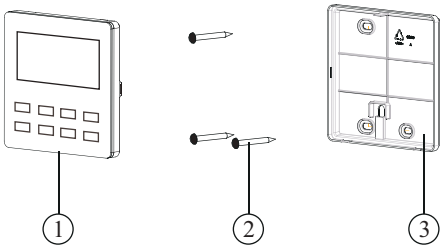


Fig. 3.1.2 Parts of wired controller

No.	1	2	3
Name	Panel of wired controller	Screw M4*25	Soleplate of wired controller
Q'ty	1	3	1

3.1 Installation of Wired Controller

3.1.1 Communication Line Selection

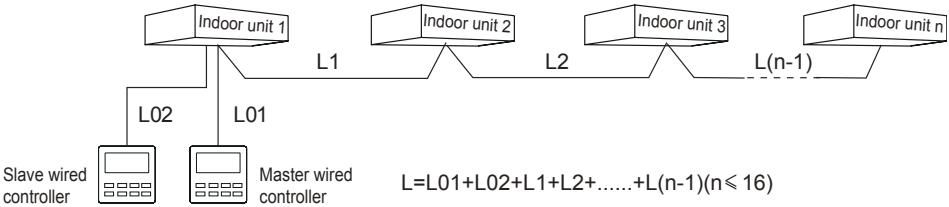


Fig. 3.2 Length of communication line

Wire material type	Total length of communication line between indoor unit and wired controller L (m)	Wire size (mm^2)	Material standard	Remarks
Light/Ordinary polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤250	2×0.75~2×1.25	IEC 60227-5:2007	Total length of communication line can't exceed 250m

⚠ 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.

3.1.2 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.

3.1.3 Wiring Requirements

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

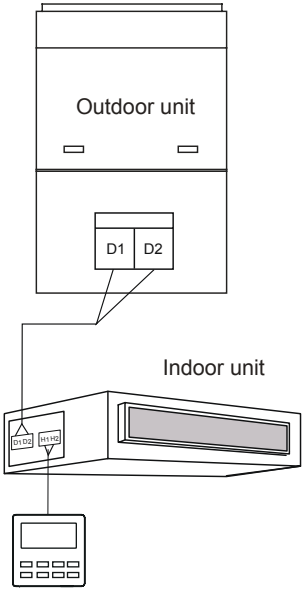


Fig. 3.3 One wired controller controls one indoor unit

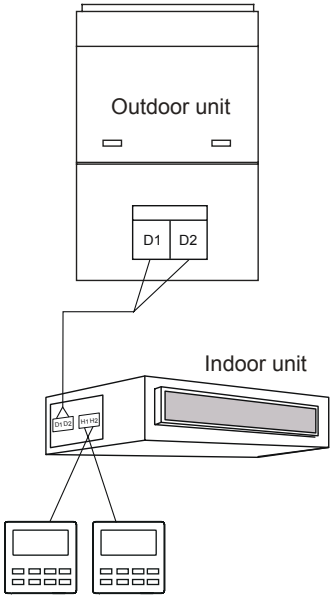


Fig. 3.4 Two wired controllers control one indoor unit

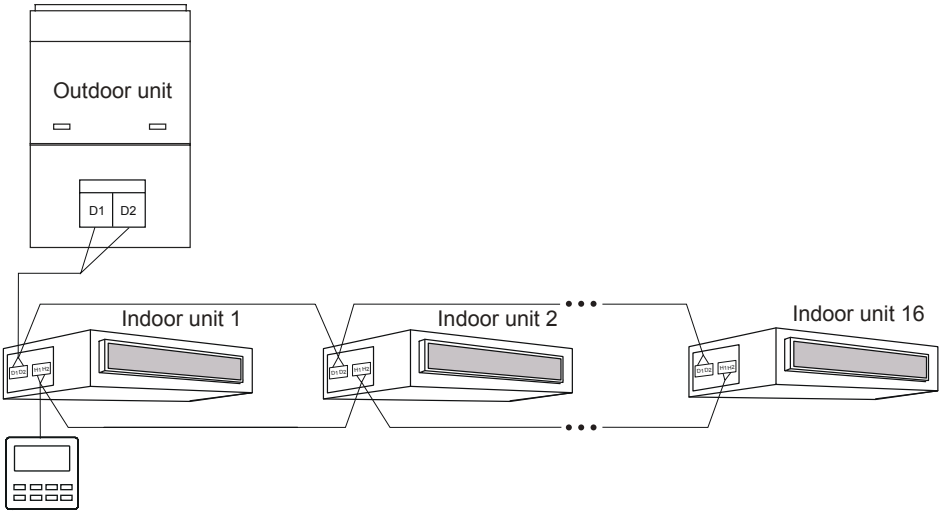


Fig. 3.5 One wired controller controls multiple indoor units simultaneously

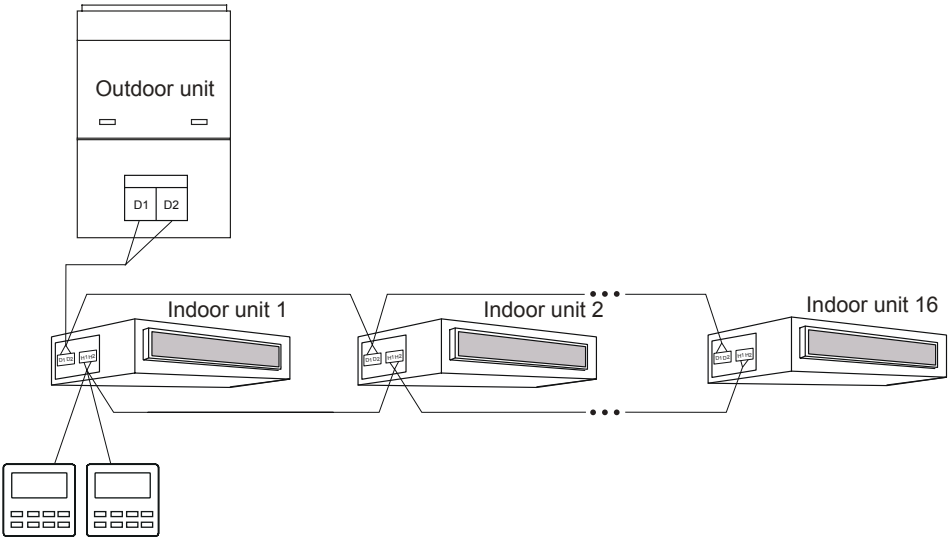


Fig. 3.6 Two wired controllers control multiple indoor units simultaneously

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.

(2) When two wired controllers control one indoor unit, the addresses of those two wired controllers should be different. Please refer to 3.2.3 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 3.2.3 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.

(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 3.3-3.6. As for the connection method shown in fig 3.4 and 3.6, 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.

3.1.4 Installation

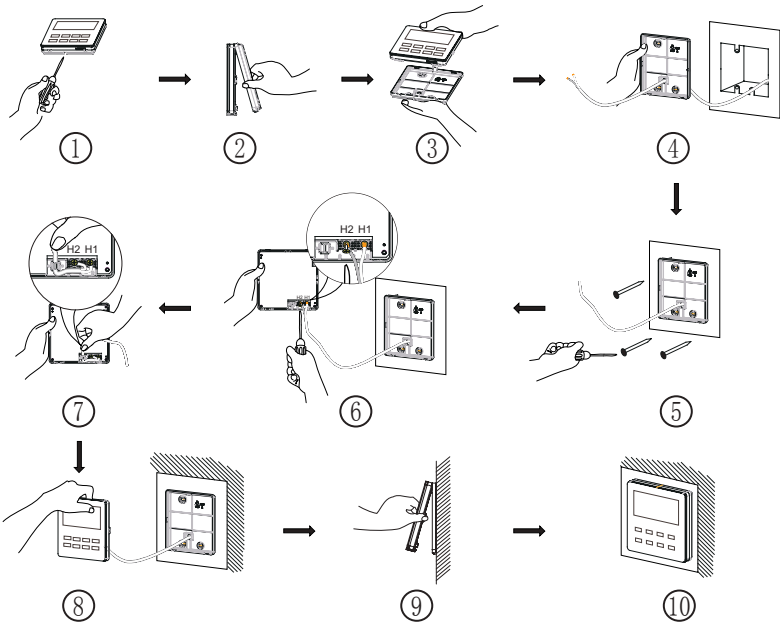


Fig. 3.7 Installation diagram for wired controller

Fig. 3.7 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 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) 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.

3.1.5 Disassembly

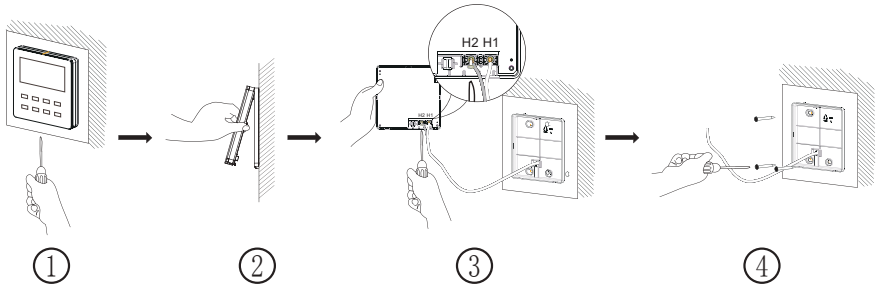


Fig. 3.8 Disassembly diagram of wired controller

3.2 Commissioning

3.2.1 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.

3.2.2 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 3.1 Parameters viewing list

Parameter code	Parameter name	Parameter range	Viewing method
C00	Entrance of adjustable parameter	-	-
C01	View the project number of indoor unit in the case that one wired controller controls several indoor units at the same time	1-255: project number on-line 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 indoor unit. Display method: Temperature zone: displays current indoor unit number; Timer zone: displays C5 malfunction of project number conflict/present indoor unit project number. If master indoor unit exists in current indoor unit network, “MASTER” icon will be bright under “C01” interface. After entering the interface of viewing indoor unit project number, “MASTER” icon will be bright only when the project number of master indoor unit is selected.

C03	View the indoor unit quantity of the system network	1-80	Timer zone: display indoor unit quantity of the system
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.
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
C12	View outdoor ambient temperature	-	Timer zone: displays outdoor ambient temperature

⚠ 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.

3.2.3 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 3.2 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, MASTER" icon will be bright after finishing setting.
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 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.
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 Static pressure level range is different for different models; the wired controller will automatically select static pressure level range of indoor fan motor according to the model of indoor unit.
P31	High ceiling installation	00: installation height of standard ceiling 01: installation height of high ceiling	00	
P33	Set Timer	00: general timer 01: clock timer	00	
P34	Clock Timer repetition is valid	00: once 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.
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.
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	

⚠ 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.

4. OPERATION INSTRUCTIONS

4.1 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. 4.1 and 4.2.

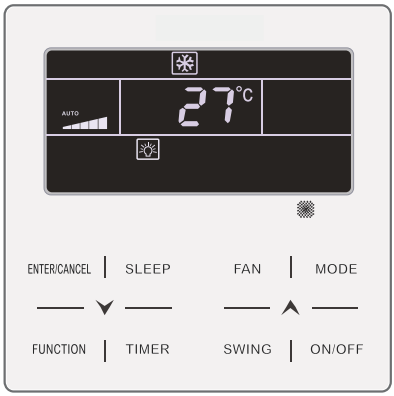


Fig. 4.1 Interface of On status

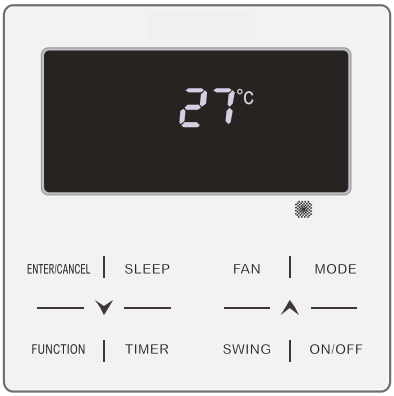
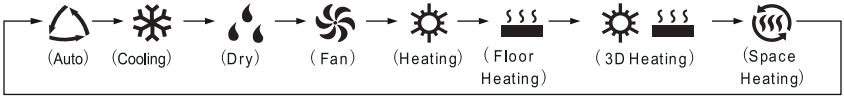


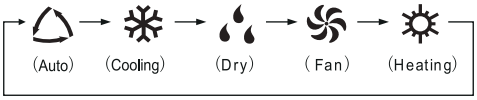
Fig. 4.2 Interface of Off status

4.2 Mode Setting

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



OR



⚠ 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.

4.3 Temperature Setting

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

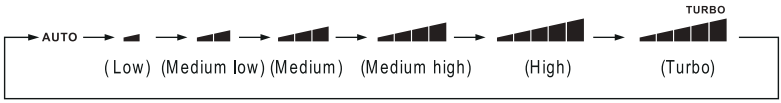
In Cooling, Fan, Heating, Floor Heating, 3D Heating or Space Heating mode, temperature setting range is 16°C~30°C.

In Dry mode, the temperature setting range is 12°C, 16°C~30°C. In Dry mode, when temperature is 16°C, continuously press "∨" button twice to decrease temperature to 12°C (when Save function is activated, the temperature in Dry mode can't be adjusted to 12°C and the setting range is "lowest temperature in Save mode" ~ 30°C).

⚠ Note: Under Auto mode or Out function is activated, the setting temperature can not be adjusted by pressing "∧" or "∨".

4.4 Fan Setting

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



Note: in Dry mode, fan speed is low and can't be adjusted.

4.5 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 3.2.3 for the timer setting way.

4.5.1 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. 4.3:

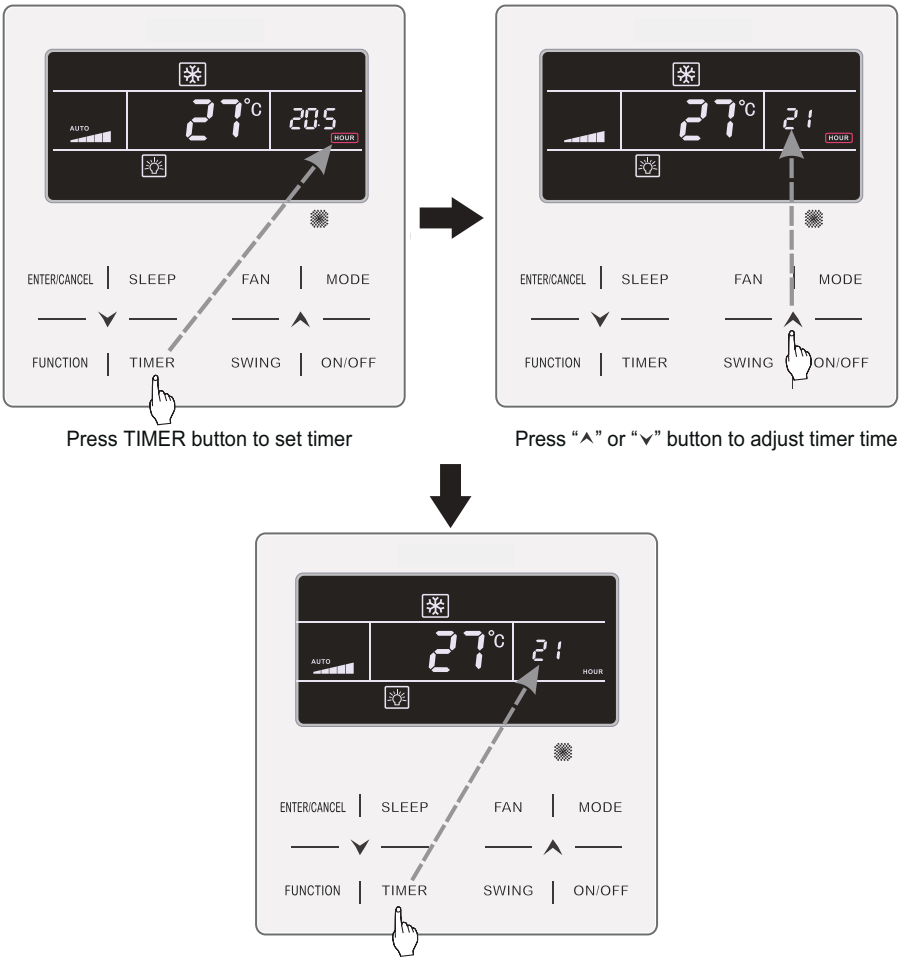


Fig. 4.3 Timer Off setting in unit On status

4.5.2 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 "v" button increases or decreases clock time by 1min; holding "^" or "v" 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.

4.5.3 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;

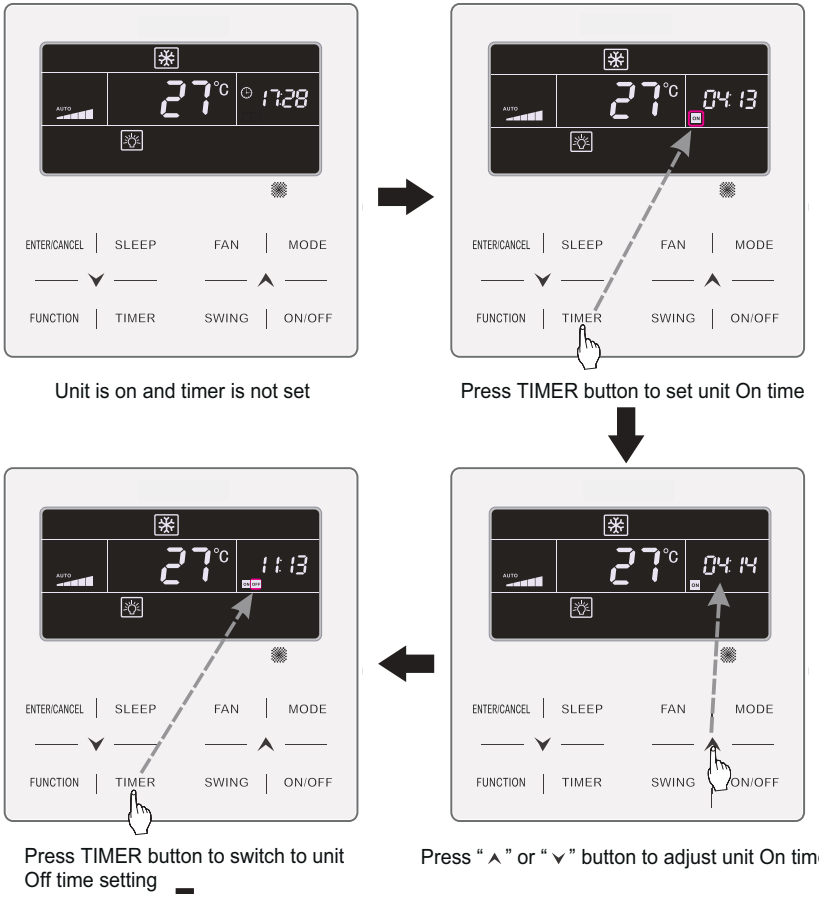
(4) Press “⮝” or “⮟” button to adjust unit Off time. Press ENTER/CANCEL button to finish setting;

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. 4.4:

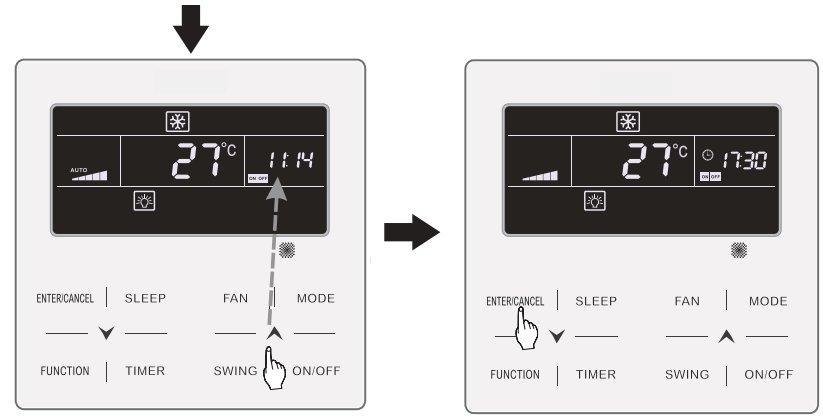


Unit is on and timer is not set

Press TIMER button to set unit On time

Press “ ⮝ ” or “ ⮟ ” button to adjust unit On time

Press TIMER button to switch to unit Off time setting



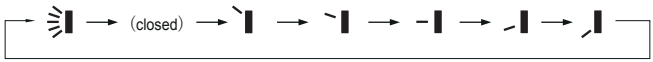
ess " ^ " or " v " button to adjust unit Off time Press ENTER/CANCEL button to finish setting

Fig. 4.3 Unit On/Off time setting in unit On status

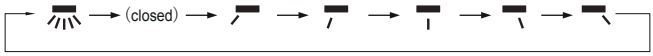
4.6 Swing Setting

Press SWING button in unit On status to start Swing function. There are two kinds of swing direction: up & down swing and left & right swing. Press SWING button to start swing and stop swing. Holding SWING button for 5s to switch between up & down swing and left & right swing.

In up & down swing, "Swing" icon changes as following:



In left & right swing, "Swing" icon changes as following:



Note: the available Swing direction is different for different models; the wired controller will automatically select swing setting range according to the model of indoor unit.

4.7 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 "AT" is blinking. At this moment, press "^" or "v" button to switch between quiet and auto quiet, and then press ENTER/CANCEL button to tactivate.

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. 4.5:

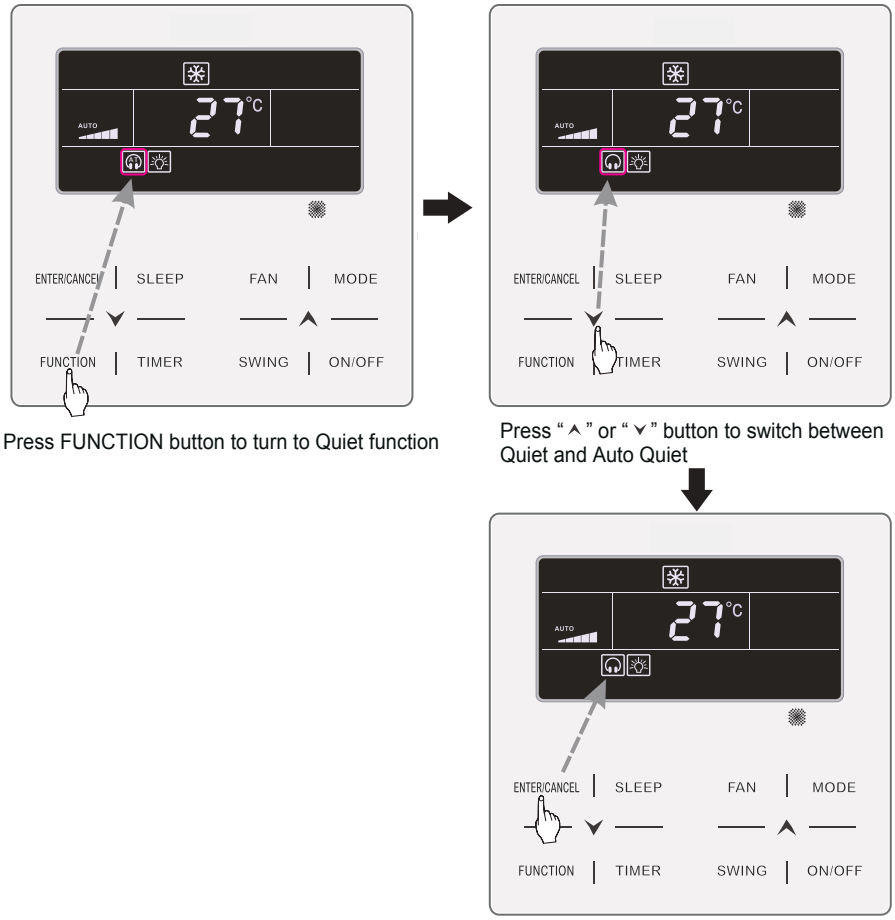


Fig. 4.5 Setting of Quiet function

4.8 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 tactivate 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.

4.9 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.4.6 Shows how to turn on Air function:

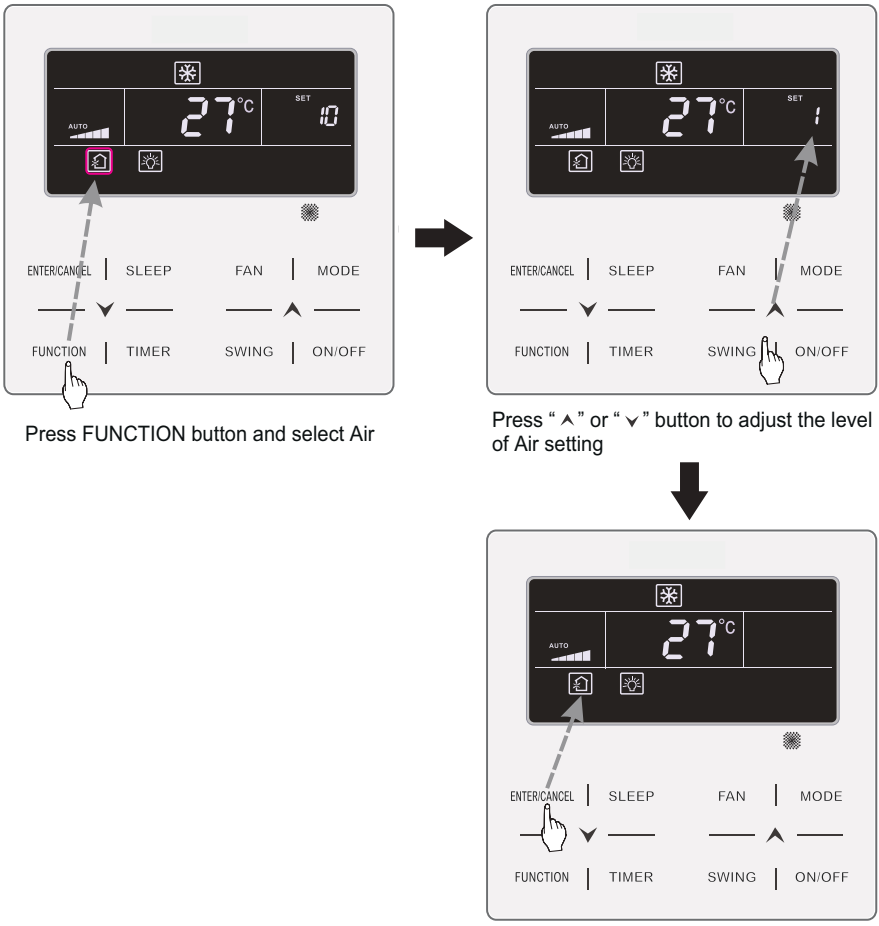


Fig.4.6 Turn on Air Function

4.10 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.

4.11 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, Floor Heating, 3D Heating and Space Heating modes. Thus, energy saving can be realized.

Save Setting:

Save Setting for Cooling: When unit is on and under Cooling or Dry mode, press FUNCTION button to select Save function. “” icon will blink and MIN icon lit up. Press “” or “” button to adjust to the minimum temperature. Press ENTER/CANCEL button to activate this function.

Fig.4.7 Shows how to set Save function for Cooling:

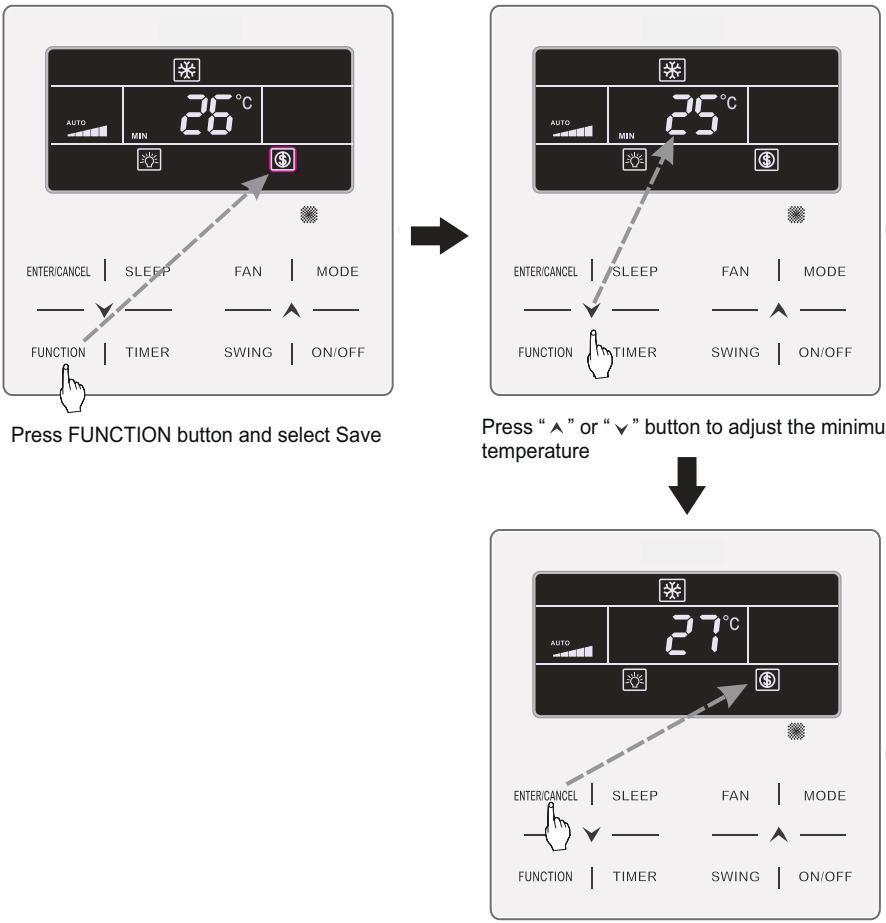


Fig.4.7 Save Setting for Cooling

Save Setting for Heating: When unit is on and under Heating, Floor Heating, 3D Heating and Space Heating modes, press FUNCTION button to select Save function. "$" icon will blink and MAX icon lit up. Press "∧" or "∨" button to adjust the MAXIMUM temperature. Press ENTER/CANCEL button to turn on this function.

Turn off Save Function: Press FUNCTION button and select Save function. "$" icon blinks. Then press ENTER/CANCEL button to cancel this setting.

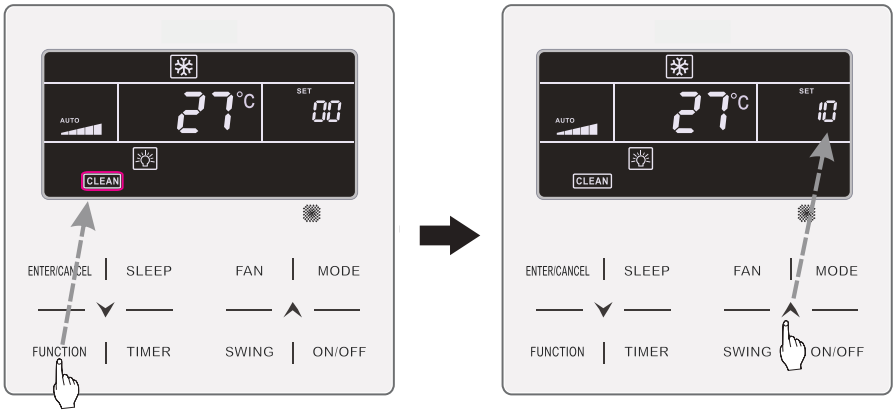
4.12 Filter Clean Reminder Setting

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 "∨" button to adjust the cleaning level, of which the range is 00, 10-39. Press ENTER/CANCEL to turn on this function.

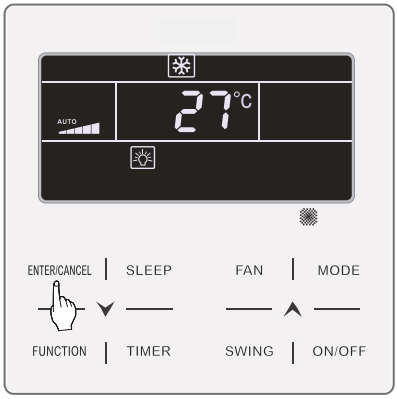
Turn off Filter Clean Reminder Function: When unit is on and this function has been turned on, press FUNCTION button and select Clean. Then "CLEAN" icon will blink. Set the cleaning level as 00 and press ENTER/CANCEL function to cancel this setting.

Fig.4.8 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.4.8 Turn on Filter Clean Reminder Function

⚠ 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 Reminder	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.

4.13 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.

4.14 Out Setting

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

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

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

4.16 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.

4.17 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.

5. 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. 5.1 is the display of Mode Collision Error when unit is on.

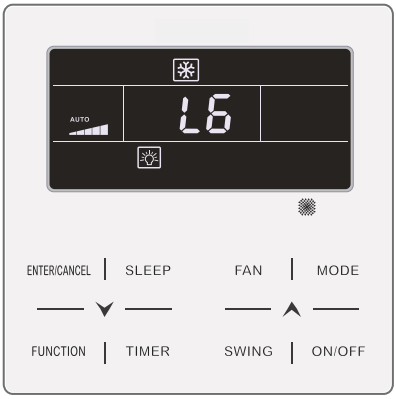


Fig.5.1 Display of Mode Conflict Error when Unit is On

5.1 Table of Error Codes for Outdoor Unit

Error Code	Content	Error Code	Content	Error Code	Content
E0	Outdoor Unit Error	FH	Compressor 1 Current Sensor Error	b1	Outdoor Ambient Temperature Sensor Error
E1	High Pressure Protection	FC	Compressor 2 Current Sensor Error	b2	Defrosting Temperature Sensor 1 Error
E2	Discharge Low Temperature Protection	FL	Compressor 3 Current Sensor Error	b3	Defrosting Temperature Sensor 2 Error
E3	Low Pressure Protection	FE	Compressor 4 Current Sensor Error	b4	Subcooler Liquid-out Temperature Sensor Error
E4	Excess Discharge Temperature Protection of Compressor	FF	Compressor 5 Current Sensor Error	b5	Subcooler Gas-out Temperature Sensor Error
EC	Compressor 1 Discharge Temperature Sensor Detachment Protection	FJ	Compressor 6 Current Sensor Error	b6	Suction Temperature Sensor 1 Error
EL	Compressor 2 Discharge Temperature Sensor Detachment Protection	FU	Compressor 2 Top Temperature Sensor Error	b7	Suction Temperature Sensor 2 Error
EE	Compressor 3 Discharge Temperature Sensor Detachment Protection	Fb	Compressor 2 Top Temperature Sensor Error	b8	Outdoor Humidity Sensor Error
EF	Compressor 4 Discharge Temperature Sensor Detachment Protection	J1	Compressor 1 Over-current Protection	b9	Heat Exchanger Gas-out Temperature Sensor Error
EJ	Compressor 5 Discharge Temperature Sensor Detachment Protection	J2	Compressor 2 Over-current Protection	bA	Oil-return Temperature Sensor Error
EP	Compressor 6 Discharge Temperature Sensor Detachment Protection	J3	Compressor 3 Over-current Protection	bH	System Clock Malfunction
F0	Bad Performance of the Outdoor Mainboard	J4	Compressor 4 Over-current Protection	bC	Compressor 1 Top Temperature Sensor Detachment Protection
F1	High Pressure Sensor Error	J5	Compressor 5 Over-current Protection	bL	Compressor 2 Top Temperature Sensor Detachment Protection
F3	Low Pressure Sensor Error	J6	Compressor 6 Over-current Protection	P0	Compressor Drive Board Error
F5	Compressor 1 Discharge Temperature Sensor Error	J7	4-way Valve Blow-by Protection	P1	Compressor Drive Board Malfunction
F6	Compressor 2 Discharge Temperature Sensor Error	J8	System Pressure Over-Ratio Protection	P2	Protection of Compressor Drive Board Power Supply
F7	Compressor 3 Discharge Temperature Sensor Error	J9	System Pressure Under-Ratio Protection	P3	Protection of Compressor Drive Board Module Reset
F8	Compressor 4 Discharge Temperature Sensor Error	JA	Protection of Abnormal Pressure	H0	Error of Fan Drive Board
F9	Compressor 5 Discharge Temperature Sensor Error	JC	Protection of Water Flow Switch	H1	Malfunction of Fan Drive Board
FA	Compressor 6 Discharge Temperature Sensor Error	JL	Protection of Low High-pressure	H2	Protection of Fan Drive Board Power Supply

5.2 Table of Error Codes for Indoor Unit

Error Code	Content	Error Code	Content	Error Code	Content
L0	Indoor Unit Error	LA	Indoor Units Incompatibility Error	d8	Water Temperature Sensor Error
L1	Indoor Fan Protection	LH	Low Air Quanlity Warning	d9	Jumper Cap Error
L2	E-heater Protection	LC	Outdoor-Indoor Incompatibility Error	dA	Indoor Unit Hardware Address Error
L3	Water Full Protection	d1	Indoor Unit PC-Board Error	dH	Wired Controller PC-Board Error
L4	Wired Controller Power Supply Error	d3	Ambient Temperature Sensor Error	dC	Capacity DIP Switch Setting Error.
L5	Anti-Frosting Protection	d4	Inlet Pipe Temperature Sensor Error	dL	Outlet Air Temperature Sensor Error
L7	No Master Indoor Unit Error	d6	Outlet Pipe Temperature Sensor Error	dE	Indoor Unit CO_2 Sensor Error
L8	Power Insufficiency Protection	d7	Humidity Sensor Error	db	Special Code: Field Debugging Code
L9	Quantity Of Group Control Indoor Units Setting Error				

5.3 Table of Status Codes

Error Code	Content	Error Code	Content
A0	Unit is waiting for debugging.	A8	Vacuum-pumping Mode
A1	Check the compressor operation parameters.	AJ	Filter Clean Reminder
A2	After-sales Refrigerant Reclaim	AU	Remote Urgent Stop
A3	Defrosting	Ab	Emergency Stop
A5	Online Testing	Ad	Operation Restriction

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5.4 Table of Debugging Codes

Error Code	Content	Error Code	Content	Error Code	Content
U2	Outdoor Unit Capacity Code/Jumper Cap Setting Error	UE	Refrigerant Charging is ineffective.	CH	Rated capacity is too high.
U3	Phase Sequence Protection of Power Supply	UL	Emergency Operation DIP switch setting of the compressor is wrong.	CL	Rated capacity is too low.
U4	Protection of Lack of Refrigerant	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
U5	Wrong Address of Compressor Drive Board	C2	Communication error between master control and inverter compressor drive	CJ	System addresses is incompatible.
U6	Valve Abnormal Alarm	C3	Communication error between master control and inverter fan motor drive	CP	Error of Multiple Master Wired Controller
U8	Indoor Unit Tube Malfunction	C4	Error of Lack of Indoor Unit	CU	Communication Error between Indoor Unit and Remote Receiver
U9	Outdoor Unit Tube Malfunction	C5	Alarm of Indoor Unit Project Number Collision	Cb	Outflow of Units IP Address
UC	Master indoor unit is successfully set.	C6	Alarm of Wrong Number of Outdoor Unit		

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