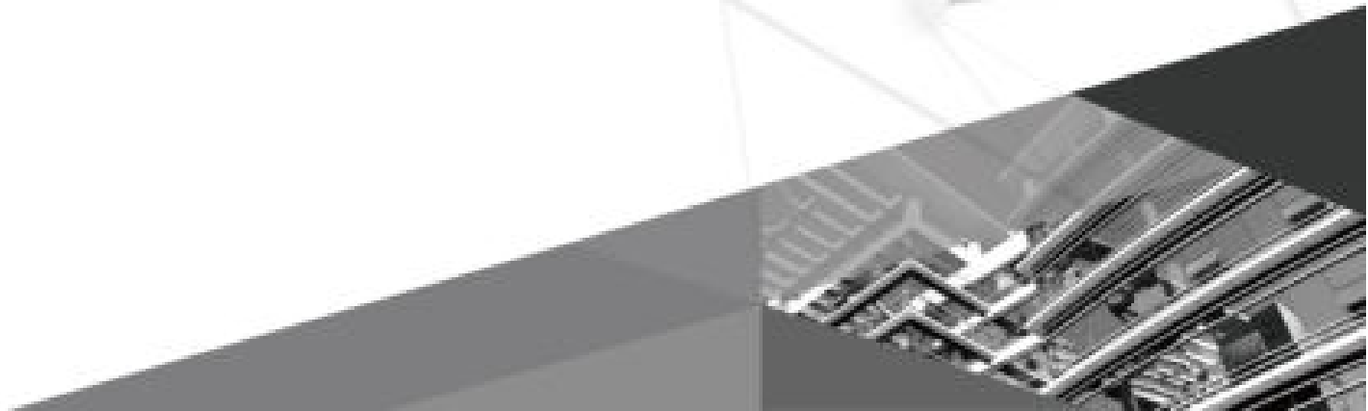
TOSOT

Owner's Manual

Original Instructions

Wired Controller XE7A-24/H
Wired Controller XE7A-24/HC

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



To Users

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

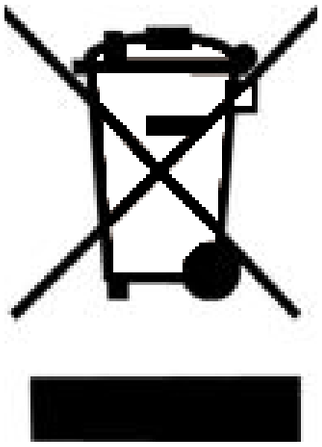
(1) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsibility for their safety. Children should be supervised to ensure that they do not play with the appliance.

(2) This instruction manual is a universal manual; some functions are only applicable to particular product. All the illustrations and information in the instruction manual are only for reference, and control interface should be subject to actual operation.

(3) In order to make the product better, we will continuously conduct improvement and innovation. If there is adjustment in the product, please subject to actual product.

(4) If the product needs to be installed, moved or maintained, please contact our designated dealer or local service

center for professional support. Users should not disassemble or maintain the unit by themselves, otherwise it may cause relative damage, and our company will bear no responsibilities.



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

Contents

1 Safety Notices (Please be sure to abide them) 1

2 Operation Notices.....1

3 Display.....3

3.1 LCD of Wired Controller..... 4

3.2 LCD Display Instruction 4

4 Installation and Commissioning 7

4.1 Instruction of wired controller..... 8

4.2 Commissioning 16

5 Operation Instructions 33

5.1 ON/OFF 33

5.2 Mode Setting..... 33

5.3 Temperature Setting..... 34

5.4 Fan Setting..... 35

5.5 Timer Setting..... 36

5.6 Swing Setting 40

5.7 Quiet Setting 40

5.8 Sleep Setting..... 41

5.9 Air Setting* 42
5.10 Save Setting..... 43
5.11 Filter Clean Reminder Setting 45
5.12 X-FAN Setting 47
5.13 Health Setting* 48
5.14 I-DEMAND Setting*..... 48
5.15 Absence Setting 48
5.16 Remote Shield Function..... 49
5.17 Child Lock Function 49
5.18 Gate-Control Function..... 49
5.19 Inquiry of Indoor Temperature with One Button 50
5.20 Auto Clean Function..... 50
5.21 WiFi Function Setting..... 52
5.22 Setback Function 53
6 Error Display.....54
6.1 Table of Display Codes for VRF unit 55
6.2 Table of Display Codes for U-match unit..... 65

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.
- This product is applicable to VRF unit, Big Duct Type unit, Air-cooled Packaged unit and U-match unit whose outdoor unit and indoor unit communicate with each other by live line and

neutral line.

- When two wired controllers control one (or more) indoor unit(s), the address of wired controller should be different.
- Functions with "*" are optional for indoor units. If a function is not included in an indoor unit, wired controller can't set the function, or setting of this function is invalid to the indoor unit.
- Please pay attention to below items when matching with VRF unit:
  - When the system mode priority is the master-slave mode, in one system network, you must set one indoor unit as the master indoor unit, other indoor units are slave indoor units.
  - When the system mode priority is the master-slave mode, the operation mode of the system is basing on that of the master indoor unit. The master indoor unit can be set to any mode (including auto mode), while the slave indoor unit can't set to the mode that conflicts with the system mode.
  - When the system mode priority is: Cooling mode is prioritized, heating mode is prioritized, first-set mode is prioritized, or last-set mode is prioritized. The indoor unit can be set to any mode (excluding auto mode). The indoor unit will automatically switch to the system mode, when the operation mode of the indoor unit conflicts with the system operation mode.
  - When the system mode priority is the voting mode (indoor unit's capacity is prioritized / number of indoor units is prioritized). The indoor unit can be set to any mode (excluding the auto mode). The indoor unit will be stopped,

when the operation mode of the indoor unit conflicts with the system operation mode after voting.

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

3 Display

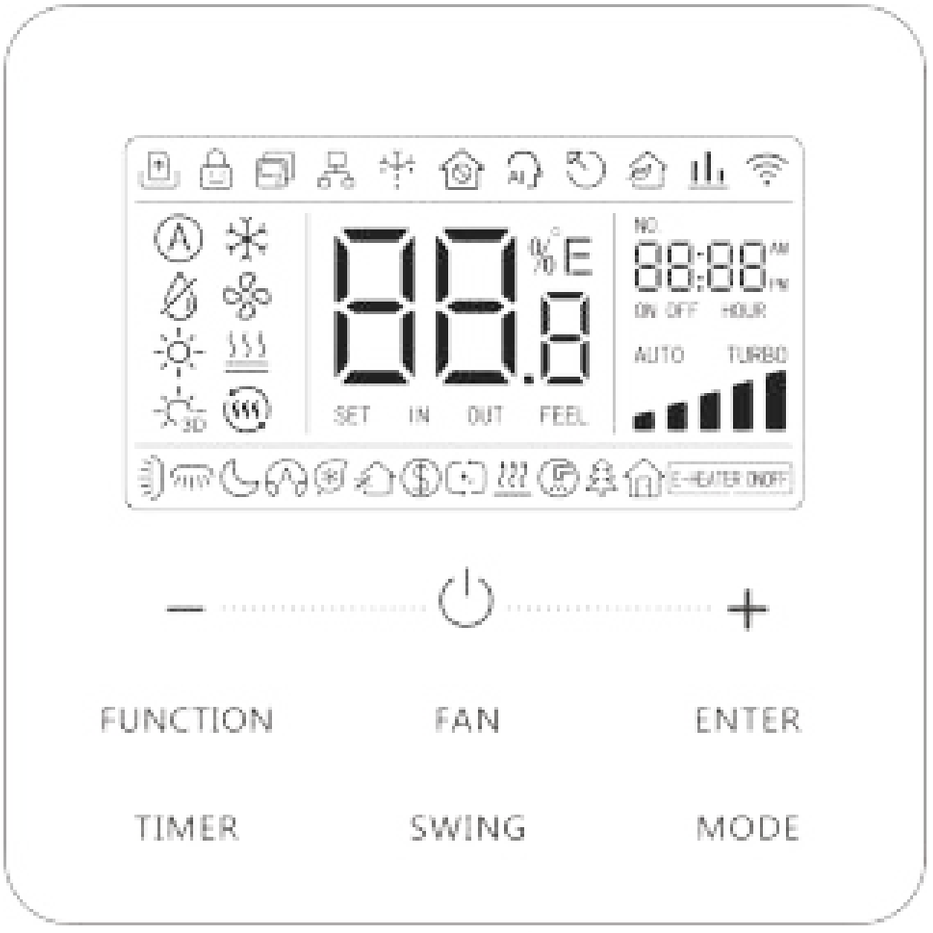


Fig. 3.1 Appearance of wired controller

3.1 LCD of Wired Controller

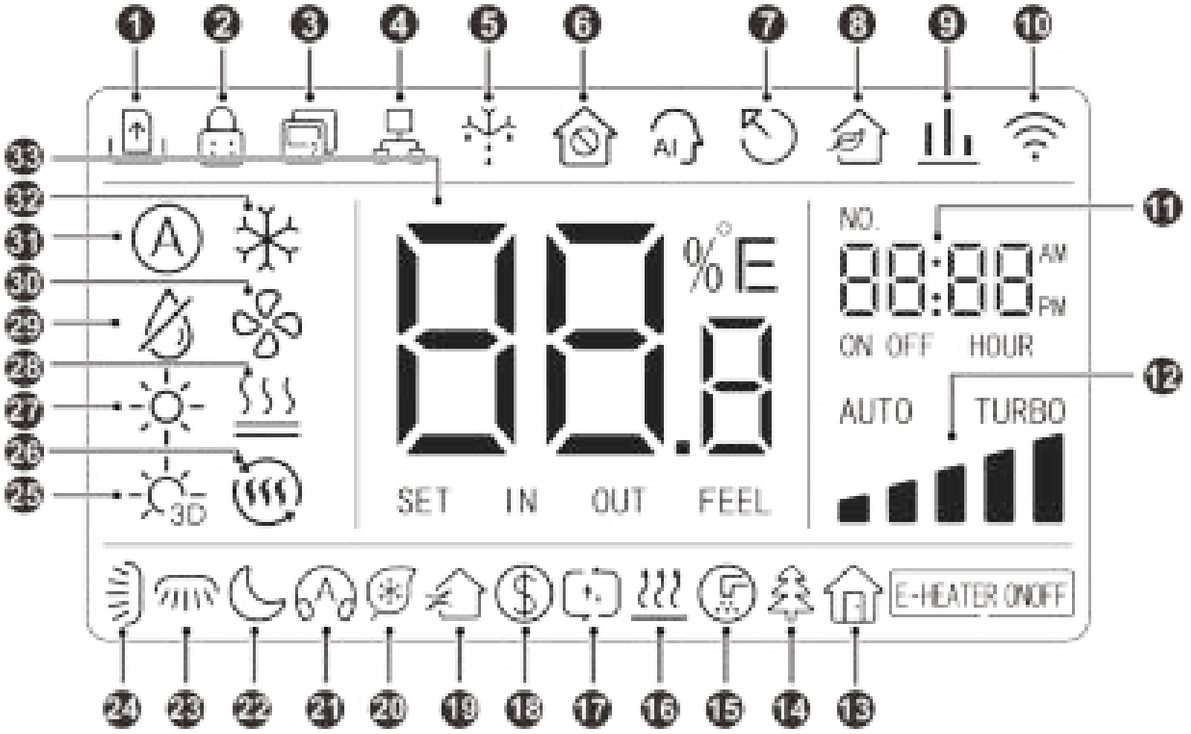
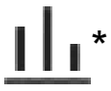


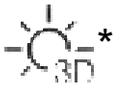
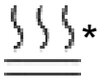
Fig. 3.2 LCD graphics of wired controller

3.2 LCD Display Instruction

Table 3.1 LCD display instruction

No.	Symbols	Instructions
1		Gate-control function.
2		Child Lock status.
3		Slave wired controller (address of wired controller is 02).
4		One wired controller controls multiple indoor units.

No.	Symbols	Instructions
5		Outdoor unit defrosting status.
6		Shielding status.
7		Current wired controller connects master indoor unit.
8		Fresh air control function of AHU-KIT.
9		Indicates that the current system mode priority is voting mode.
10		WiFi status (If the wired controller has no WiFi function, it displays only when the unit connected to “G-Cloud”).
11		Timer zone: Display system clock and timer status.
12		Current set fan speed.
13		Absence function.
14		Health function, Indoor unit optional function.
15		Remind to clean the filter.
16		X-fan function.

No.	Symbols	Instructions
17	*	Auto clean status.
18		Save status of indoor unit.
19	*	Air status, Indoor unit optional function.
20	*	I-DEMAND function, Indoor unit optional function.
21		Quiet status (including Quiet and Auto Quiet two status).
22		Sleep status.
23	*	Left and right swing function.
24		Up and down swing function.
25	 *	3D Heating mode.
26	*	Space Heating mode.
27		Heating mode.
28	 *	Floor Heating mode.
29		Dry mode.
30		Fan mode.
31	*	Auto mode.

No.	Symbols	Instructions
32	❄	Cooling mode.
33		It shows the value of temperature, and displays the current type of value (In case the wired controller is controlling a Fresh Air Indoor Unit, then it will display FAP).
NOTE: When wired controller is connected with different indoor units, some functions will be different.		

4 Installation and Commissioning

Unit: mm

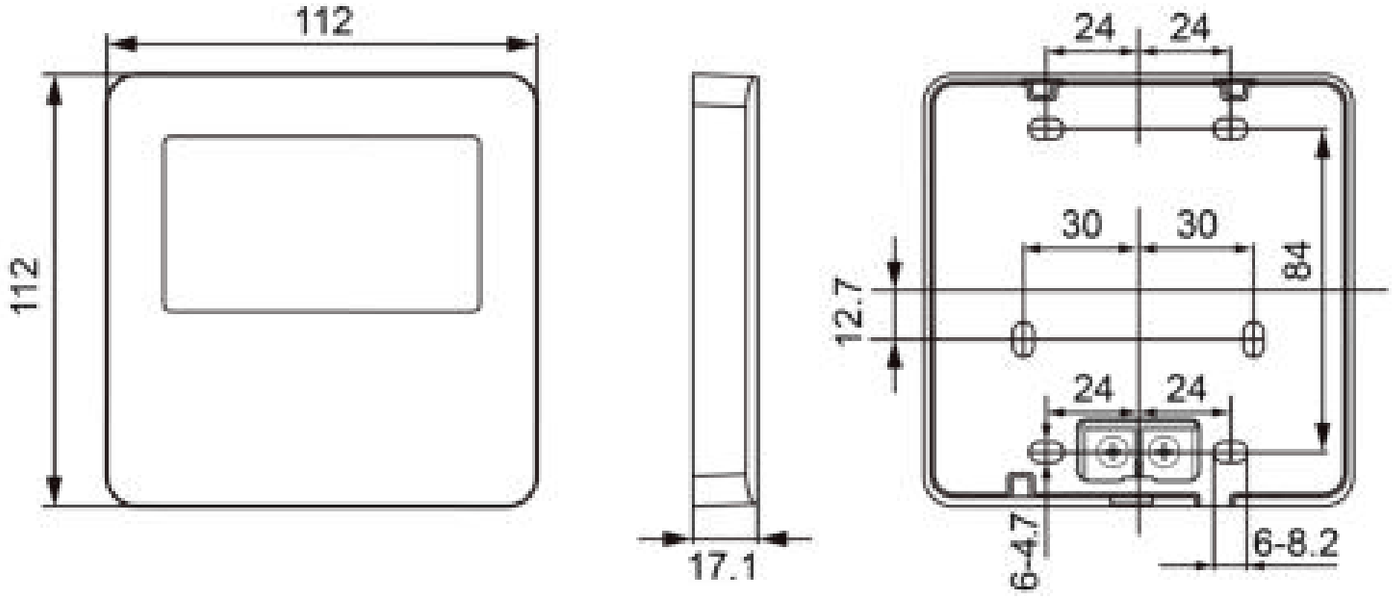


Fig. 4.1 Dimension of Wired Controller

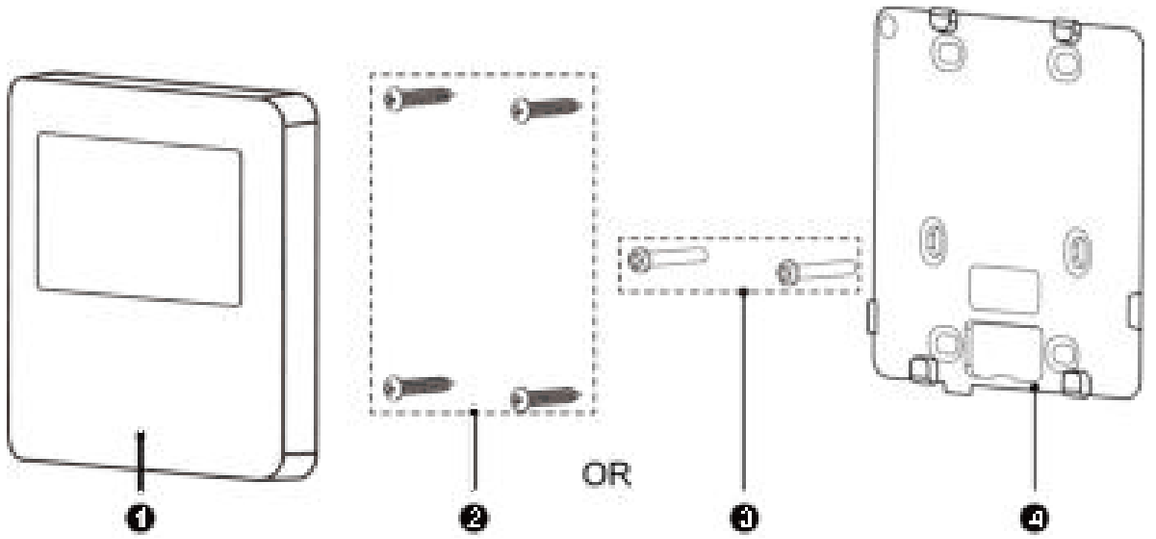


Fig. 4.2 Parts and Components of Wired Controller

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

4.1 Instruction of wired controller

4.1.1 Requirements for model selection of communication wire

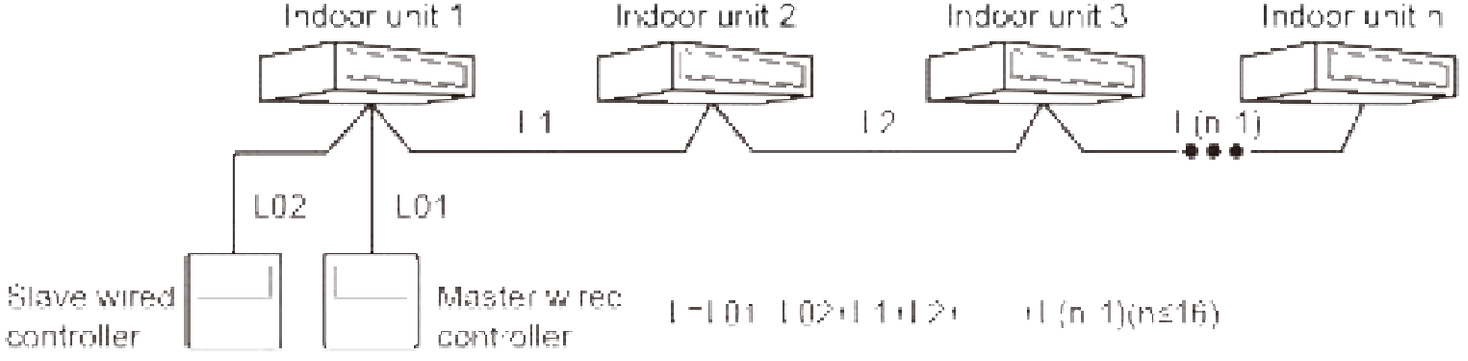


Fig. 4.3 Length of communication wire

Wire material type	Total length L (m/feet)	Wire size (mm^2/AWG)	Material standard	Remarks
Light/ Ordinary Polyvinyl chloride sheathed cord. (60227 IEC 52 /60227 IEC 53)	L≤250m (L≤820-1/5 feet)	2×0.75 mm^2~2× 1.25 mm^2 (2×AWG18~ 2×AWG16)	IEC 60227-5:20 07	(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.

4.1.2 Requirements for Installation

(1) It is not allowed to install the wired controller in the wet place.

(2) It is not allowed to install the wired controller in the place with direct sunlight.

(3) It is not allowed to install the wired controller near the high-temperature object or the place is likely to be spattered with water.

4.1.3 Requirements for Wired Connection

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

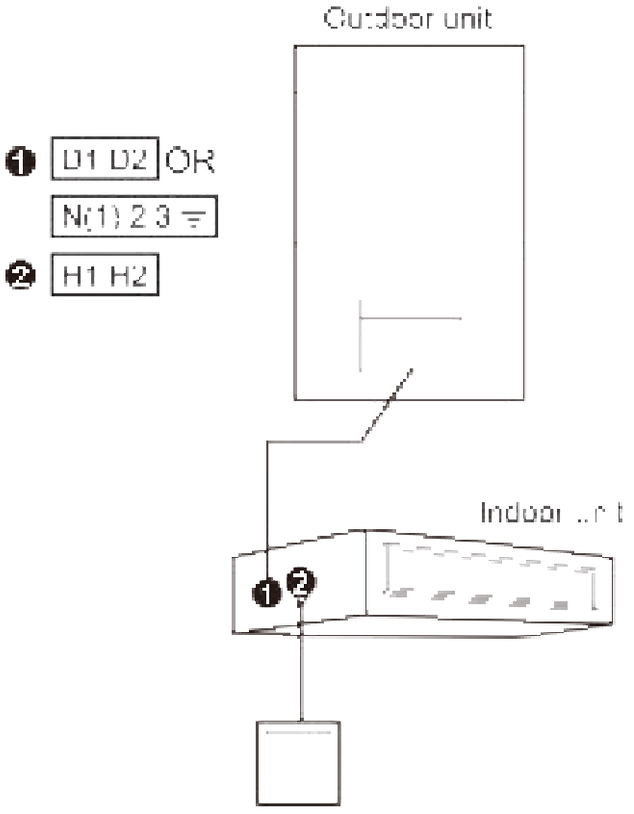


Fig. 4.4 one wired controller controls one indoor unit

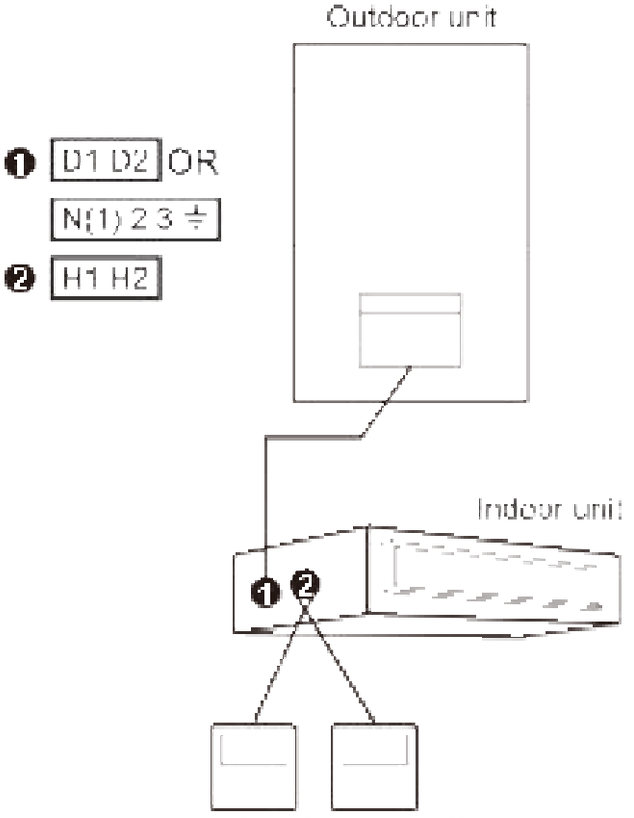


Fig. 4.5 two wired controllers control one indoor unit

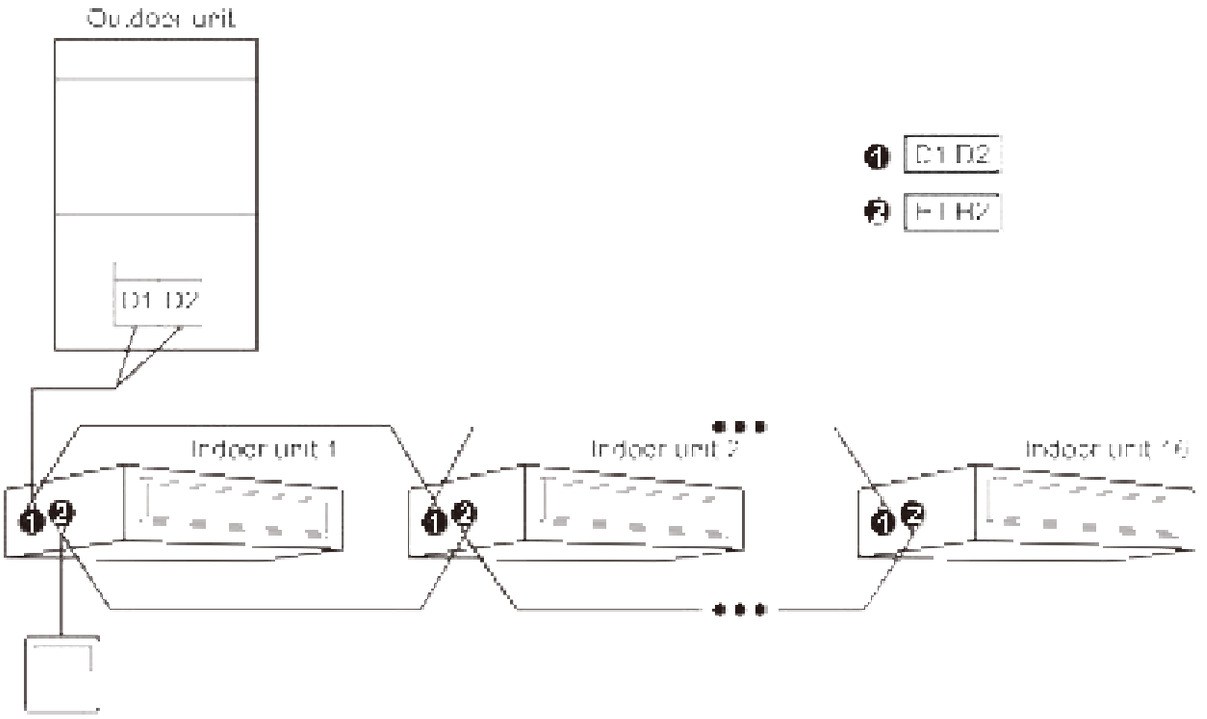


Fig. 4.6 one wired controller controls multiple VRF indoor units simultaneously

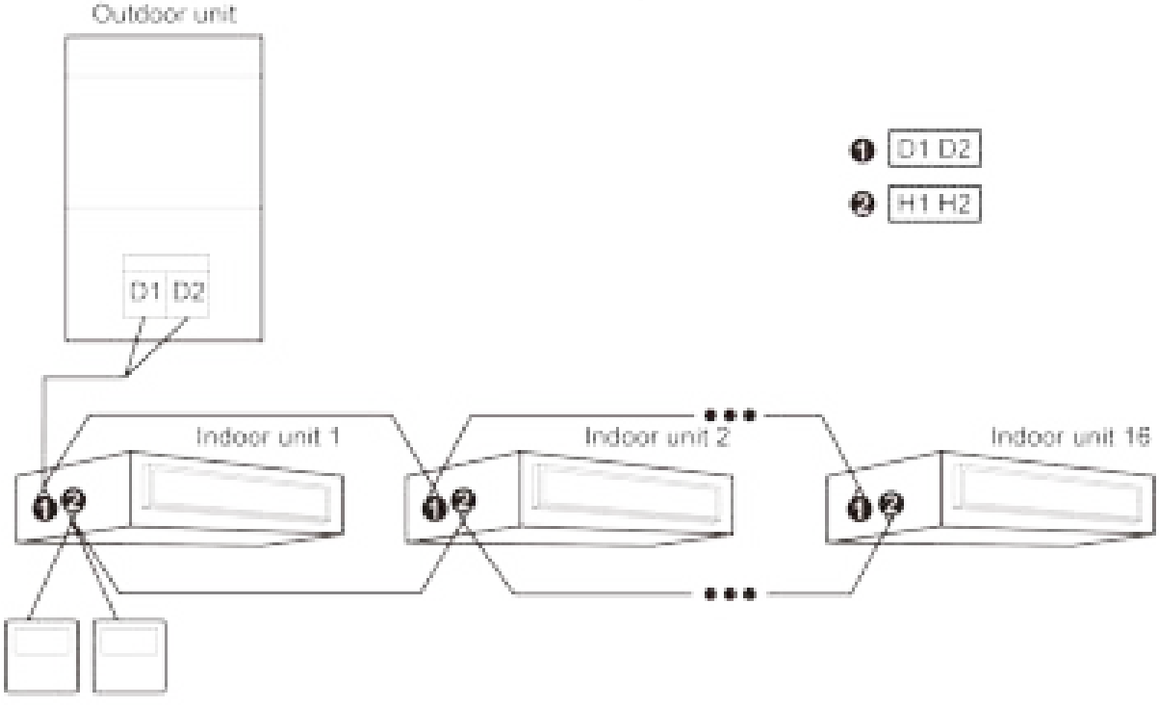


Fig. 4.7 two wired controllers control multiple VRF indoor units simultaneously

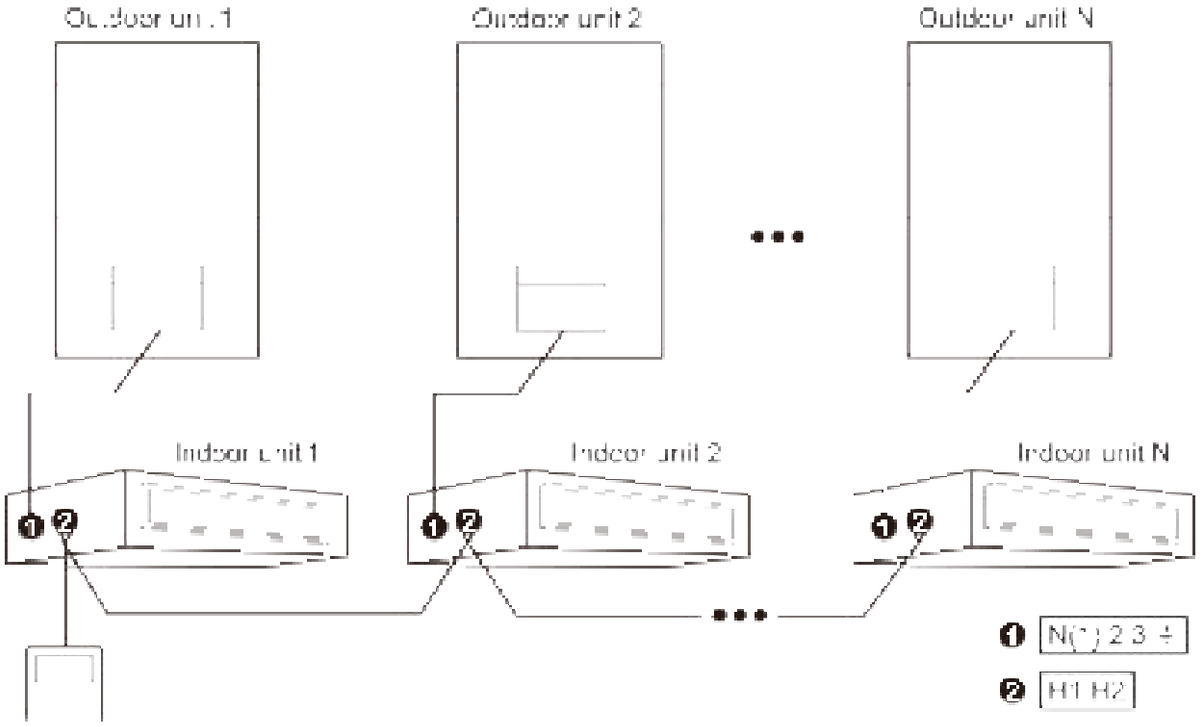


Fig. 4.8 one wired controller controls multiple U-match indoor units simultaneously

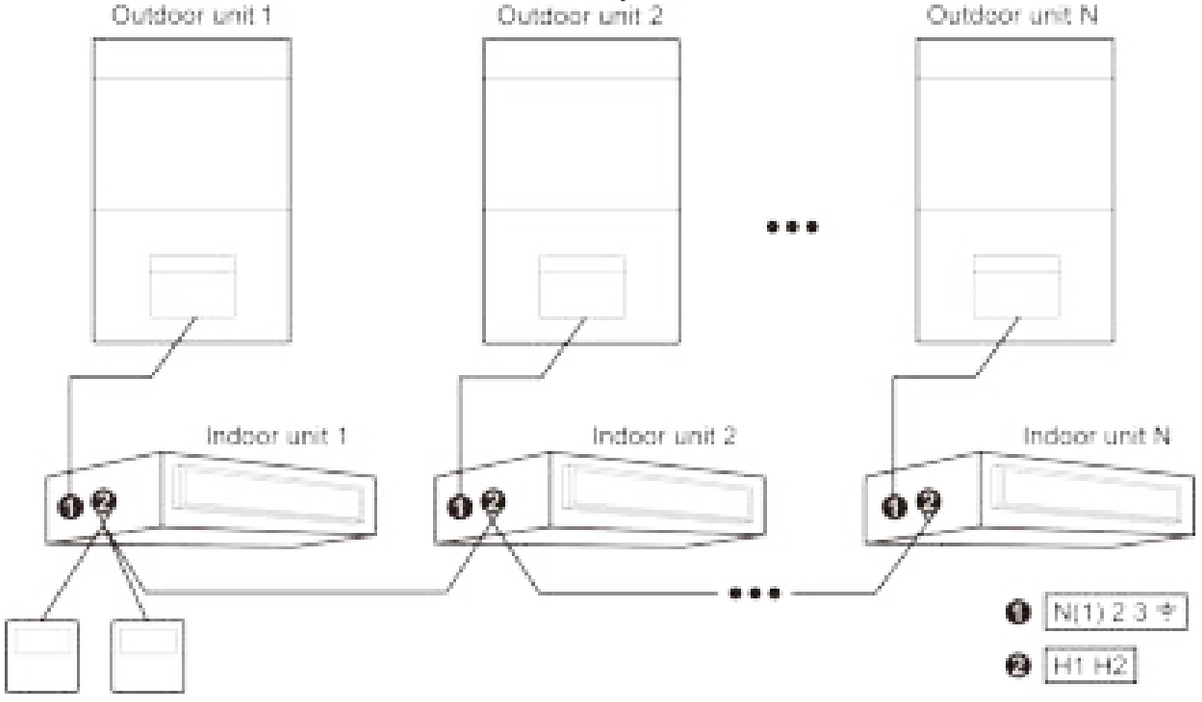


Fig. 4.9 two wired controller control multiple U-match indoor units simultaneously

Instruction for wire connection:

(1) The wiring methods in fig. 4.4, fig. 4.5, fig. 4.8 and fig. 4.9 can be adopted for the wired controller connecting U-match unit.

(2) The wiring methods in fig. 4.4~fig. 4.7 can be adopted for the wired controller connecting VRF unit.

(3) Only the wiring methods in fig. 4.4 and fig. 4.5 can be adopted for the wired controller connecting Big Duct Type unit or Air-cooled Packaged unit, that is, one (or two) wired controller(s) can control only one indoor unit, cannot control multiple indoor units of different systems.

(4) When one (or two) wired controller(s) control(s) 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 4.2.3 Parameter Setting “P14”.

(5) When two wired controllers control one (or more) indoor unit(s), the addresses of those two wired controllers should be different. Please refer to 4.2.3 Parameter Setting “P13”.

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

NOTE: Wired controller XE7A-24/HC only supports one (or more)

indoor unit(s) controlled by one wired controller.

4.1.4 Installation

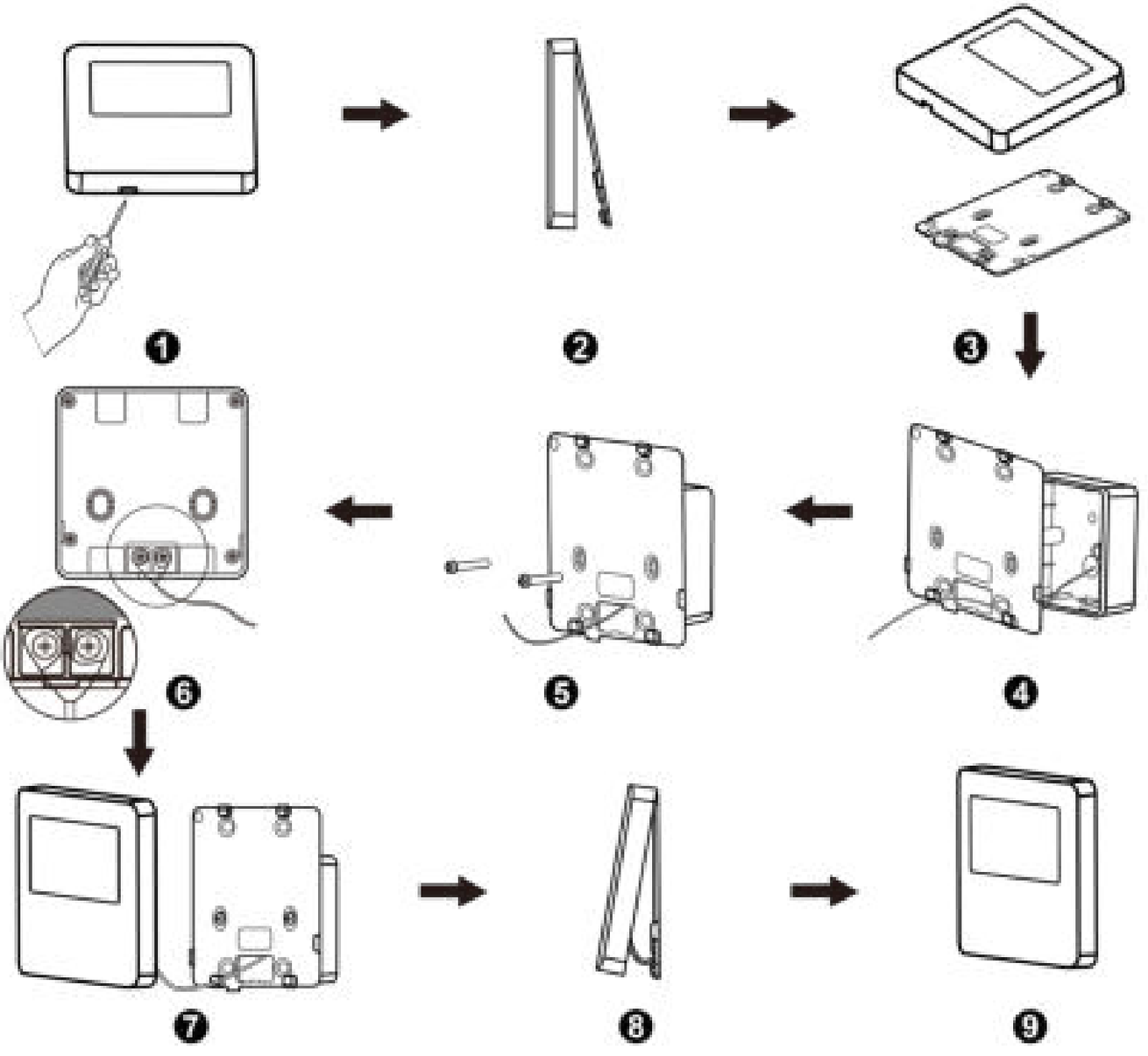


Fig. 4.10 Installation of Wired Controller

Fig. 4.10 shows a simple installation course of wired controller, and the following points should be noted:

(1) Before installation, please cut off the power supply of indoor unit, it is not allowed to operate with power supply;
(2) Pull out the 2-core twisted pair inside the installation hole in the wall, and thread the wire through the hole in the back of soleplate of wired controller;
(3) Stick the soleplate of wired controller on the wall, and use Self-tapping Screw ST3.9×25 MA or screw M4×25 to fix the soleplate with the installation hole of wall;
(4) Connect the 2-core twisted pair to wiring terminal H1 and H2, and then tighten the screw;
(5) Arrange the wires in the back of panel, and then buckle the panel of wired controller with the soleplate of wired controller.

4.1.5 Disassembly

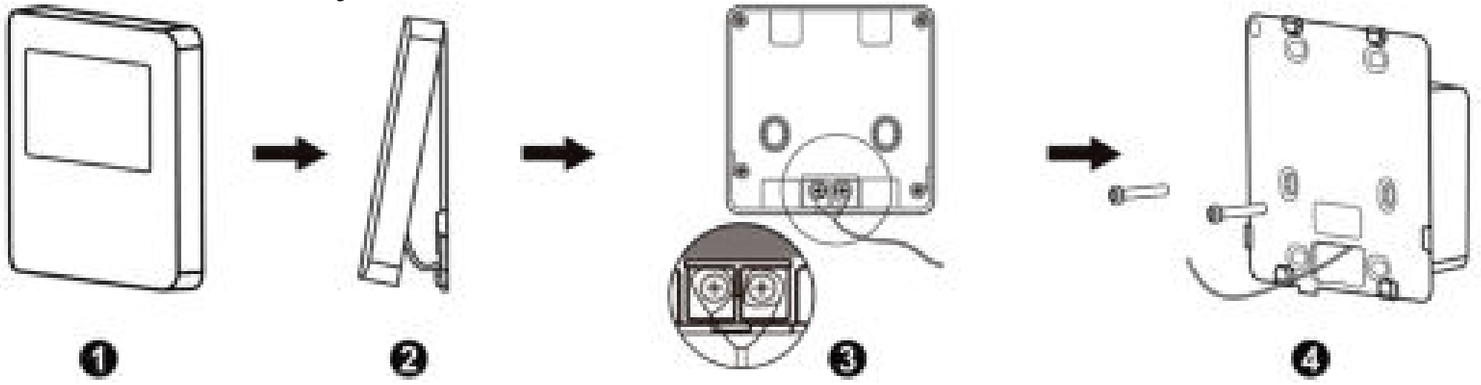


Fig. 4.11 Disassembly of wired controller

4.2 Commissioning

4.2.1 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, " " 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 This function is not applicable to partial units.

4.2.2 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.

(2) Press "+" or "-" button to select parameter code.

(3) Press "ENTER" button to return to last step until exits viewing parameters.

The parameter enquiry list is as following:

Table 4.1 Parameters viewing list

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	Press "MODE" button in "C01" status. Press "+" or "-" button to select the project number of indoor unit. The current selected indoor unit will beep. Temperature zone: displays error codes of the current indoor unit. Timer zone: displays present indoor unit project number. **NOTES:** 1)System will not exit "C01" viewing automatically. User has to exit this interface manually. 2)Partial units which have no buzzer will not beep.

Parameter code	Parameter name	Parameter range	Viewing method
C03	View the indoor unit quantity of the system network*	1-100	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.

Parameter code	Parameter name	Parameter range	Viewing method
C07	View indoor ambient temperature	—	Enter viewing: press "MODE" button in "C07" status. Press "+" or "-" button to select indoor unit. 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.

Parameter code	Parameter name	Parameter range	Viewing method
C11	View the indoor unit quantity	1-16	Timer zone: displays the indoor unit quantity controlled by the wired controller.
C12	View outdoor ambient temperature	—	Timer zone: displays outdoor ambient temperature.
C17	View indoor relative humidity	0~100: relative humidity 0%~100%	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. 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	Press "MODE" button in "C18" status to turn on the function of one-button viewing indoor unit project code. Press "+" or "-" button to select the indoor unit. 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. 2)Slave wired controller cannot view "C18".

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	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 "⏻" button under on/off status to cancel this function. 3)After the one-button viewing function is turned on, pressing the "⏻" 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*	—	Enter viewing, short-press "MODE" button in "C20" status. Press "+" or "-" button to select the indoor unit. 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", and "SWING" buttons are invalid. Press " ⏻ " button to go back to the homepage, while not to turn on/off the unit.

② Under parameter viewing status, the signal from remote controller is invalid.

4.2.3 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" button to finish setting.

(3) Press "ENTER" button to return to last step until exists setting parameters.

The parameter setting list is as following:

Table 4.2 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 01: set current indoor unit as master indoor unit	00	When set the corresponding indoor unit of wired controller as master indoor unit, the " " icon will be bright after finishing setting. **NOTE:** not applicable to partial units.

Parameter code	Parameter name	Parameter range	Default value	Note
P11	Set infrared receiver of wired controller	00: forbidden 01: activated	01	—
P13	Set address of wired controller	01: master wired controller 02: slave wired controller	01	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.
P16	Set unit of temperature	00:Celsius 01:Fahrenheit	00	—

Parameter code	Parameter name	Parameter range	Default value	Note
P30	Set static pressure of indoor fan motor	01-09: static pressure level of indoor fan motor	05	—
P31	High ceiling installation*	00: standard ceiling 01: high ceiling	00	Only applicable to partial cassette units.
P33	Set Timer*	00: general timer 01: clock timer	00	**NOTE:** not applicable to partial units.
P34	Clock Timer repetition is valid*	00: once 01: repeat everyday	01	Available only when timer is set to clock timer. **NOTE:** not applicable to partial units.

Parameter code	Parameter name	Parameter range	Default value	Note
P37	Cooling setting temperature under auto mode*	17°C~30°C (63°F~86°F)	25°C (77°F)	When the temperature unit is °C, cooling setting temperature minus heating setting temperature≥1°C. When the temperature unit is °F, cooling setting temperature minus heating setting temperature≥2°F.
P38	Heating setting temperature under auto mode*	16°C~29°C (61°F~84°F)	20°C (68°F)	

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.
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.

Parameter code	Parameter name	Parameter range	Default value	Note
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. **NOTE:** only applicable to Fresh Air Indoor Unit.
P71	Set Setback Function	00: forbidden 01: activated	00	—
P72	Temperature upper limit for Setback Function	20~30°C (68~86°F)	26°C (79°F)	When temperature unit is °C, temperature upper limit – temperature lower limit ≥ 4°C; When temperature unit is °F, temperature upper limit – temperature lower limit ≥7°F.
P73	Temperature lower limit for Setback Function	16~26°C (61~79°F)	20°C (68°F)	

Parameter code	Parameter name	Parameter range	Default value	Note
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.
P76	PM2.5 filter function*	00: invalid 01: valid	00	—
P78	Cold air prevention time setting of indoor unit*	00: 180s 01: 300s 02: 420s 03: 600s	00	—

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 with the AM/PM indicator.
P83	Temperature control method under cooling mode	00: Ambient temperature control 01:Temperature and humidity correction control	Depen-ding on Indoor unit	**NOTE:** Only applicable to the unit which is with temperature and humidity correction control function
P84	Dry mode control method	00: Temperature control 01: Humidity control	00	**NOTE:** Only applicable to the unit with humidity control function under Dry mode.

Parameter code	Parameter name	Parameter range	Default value	Note
P85	Set temperature of humidity control under Dry mode	10℃~30℃ (50°F~86°F)	16℃ (61°F)	**NOTE:** Only applicable to the unit with humidity control function under Dry mode.
P86	Auto clean mode	01: Normal 02: Quick 03: Deep	01	**NOTE:** Only applicable to the unit with auto clean function.
P87	Interval of Set temperature in Celsius	00: 1°C 01: 0.5°C	01	01: The set temperature will be adjusted at 0.5°C. 00: The set temperature will be adjusted at 1°C.

NOTES:

① Under parameter setting status, "FAN", "TIMER" and "SWING" button are invalid. Press " ⏻ " 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.

5 Operation Instructions

5.1 ON/OFF

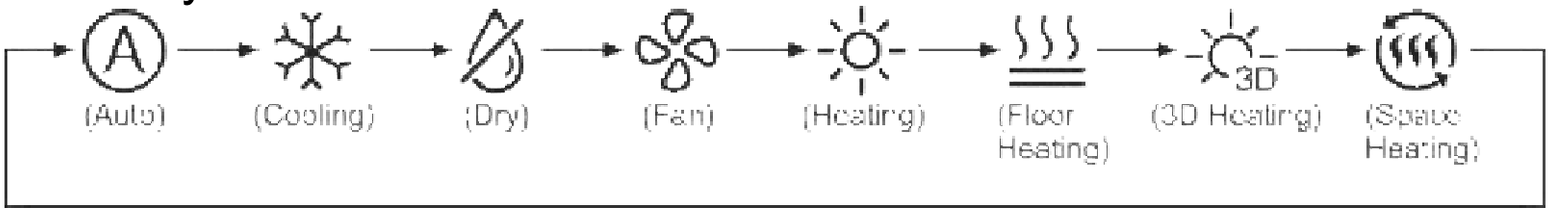
Press "⏻" button to turn on the unit. Press "⏻" button again to turn off the unit. The interfaces of "ON/OFF" status are shown in fig. 5.1 ~ 5.2.

Fig. 5.1 Interface of On status

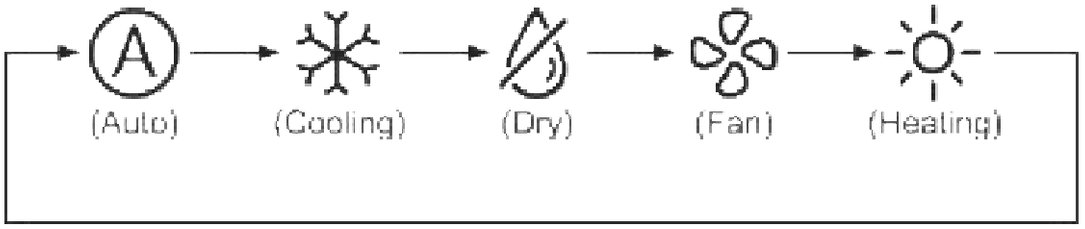
Fig. 5.2 Interface of Off status

5.2 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 When the wired controller controls VRF unit and the system mode priority is the master-slave mode, only the master indoor unit can set the auto mode.

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

5.3 Temperature Setting

Press "+" or "-" button under on status to increase or decrease set temperature by 0.5°C/1°C or 1°F; hold "+" or "-" button to increase or decrease set temperature by 0.5°C/1°C or 1°F every 0.3s. Please refer to 4.2.3 Parameter Setting for the setting method of the temperature setting interval in Celsius.

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).

When the control method under Dry mode is humidity control, press "+" or "-" button to adjust the set humidity at 5% intervals. The humidity setting range is 45%~75%, and the default value is 65%. The humidity control method under Dry mode can only be set for the unit with this function. Please refer to 4.2.3 Parameter Setting for the setting method.

NOTES:

① Only when the wired controller controls U-match indoor units,

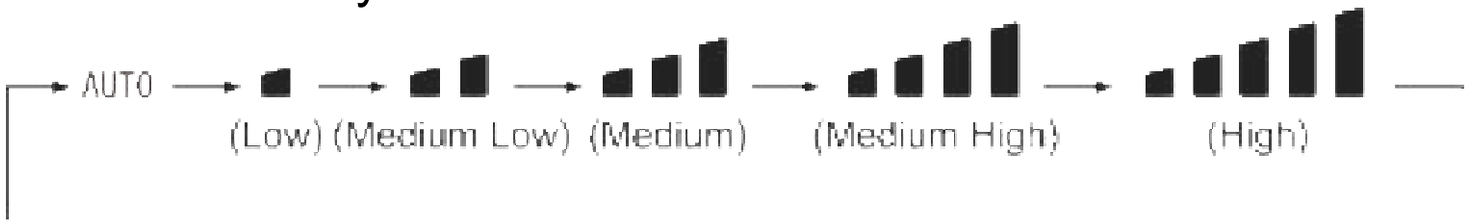
can the setting temperature be adjusted by pressing "+" or "-" under Auto mode.

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

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

5.4 Fan Setting

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



(2) Turbo function setting

In unit on status, press "FUNCTION" button to switch to Turbo function with Turbo function icon "TURBO" blinking, and then press

"ENTER" button to start or cancel Turbo function.

When Turbo function is activated, Turbo function icon "

" will be bright.

NOTES:

① Under Dry mode, fan speed is low and can't be adjusted.

② When the wired controller is connected with a Fresh Air Indoor Unit, fan speed of indoor unit will be high fan speed only. Fan speed of indoor unit can't be adjusted via "FAN" button.

③ If indoor unit's fan speed is set auto, indoor unit will change fan speed automatically according to room temperature in order to make the room temperature more stable and comfortable.

5.5 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 4.2.3 Parameter Setting for the timer setting way.

5.5.1 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. Press "+" or "-" button to increase

or decrease timer time by 0.5h; hold "+" or "-" button to increase or decrease timer time by 0.5h every 0.3s.

5.5.2 Clock Setting

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

Clock setting: long press "TIMER" button for 5s to enter clock setting. Press"+" or "-" button to increase or decrease clock time by 1min; hold "+" or "-" button for 5s to increase or decrease clock time by 10min; hold "+" or "-" button for 10s to increase or decrease clock time by 60min. Press "ENTER" button or "TIMER" button to save the setting and then exit setting.

NOTE: It is not applicable to partial units.

5.5.3 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" button to finish setting.

(3) Before pressing "ENTER" button, pressing "TIMER" button can save unit On time and then switch to unit Off time setting with "OFF" icon blinking.

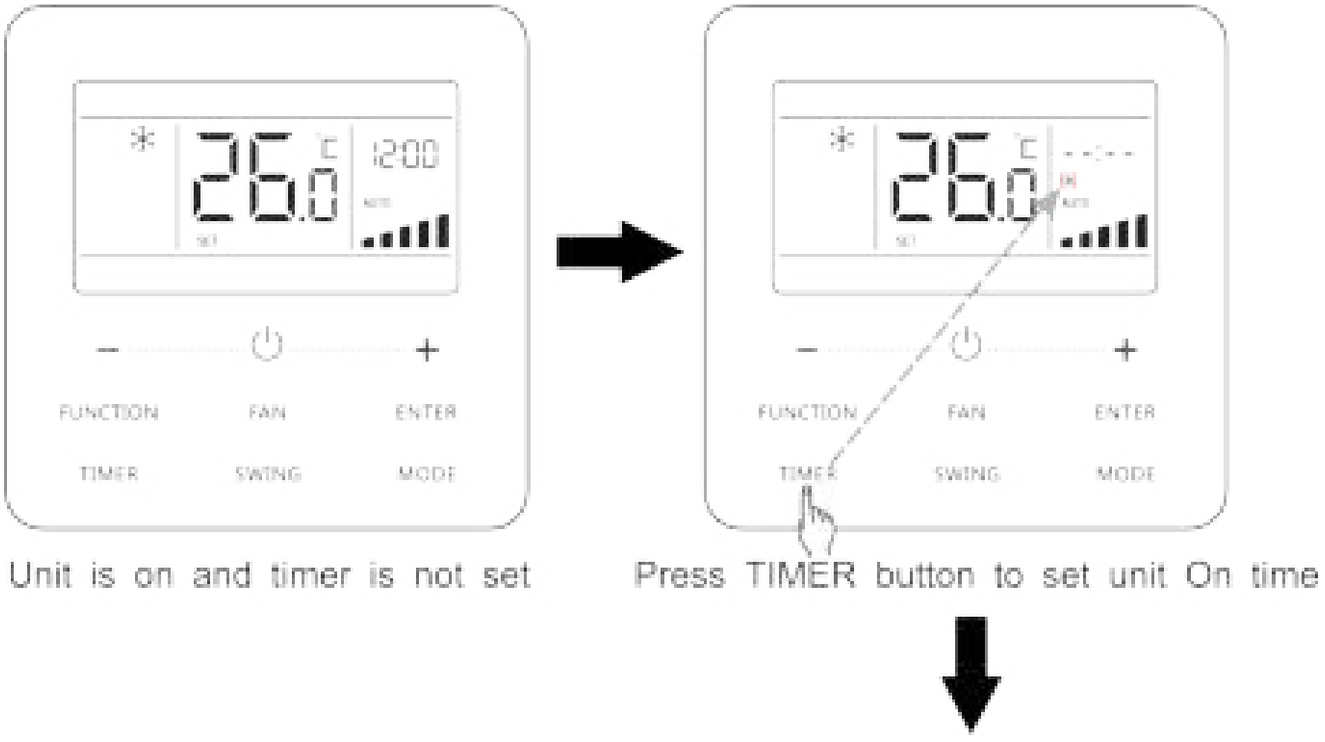
(4) Press "+" or "-" button to adjust unit Off time. Press "ENTER" button to finish setting.

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” button to cancel timer.

Press “+” or “-” button to increase or decrease timer time by 1min; hold “+” or “-” button for 5s to increase or decrease timer time by 10min; hold “+” or “-” button for 10s to increase or decrease 60min.

Clock Timer setting is as shown in fig. 5.3:



Unit is on and timer is not set

Press TIMER button to set unit On time

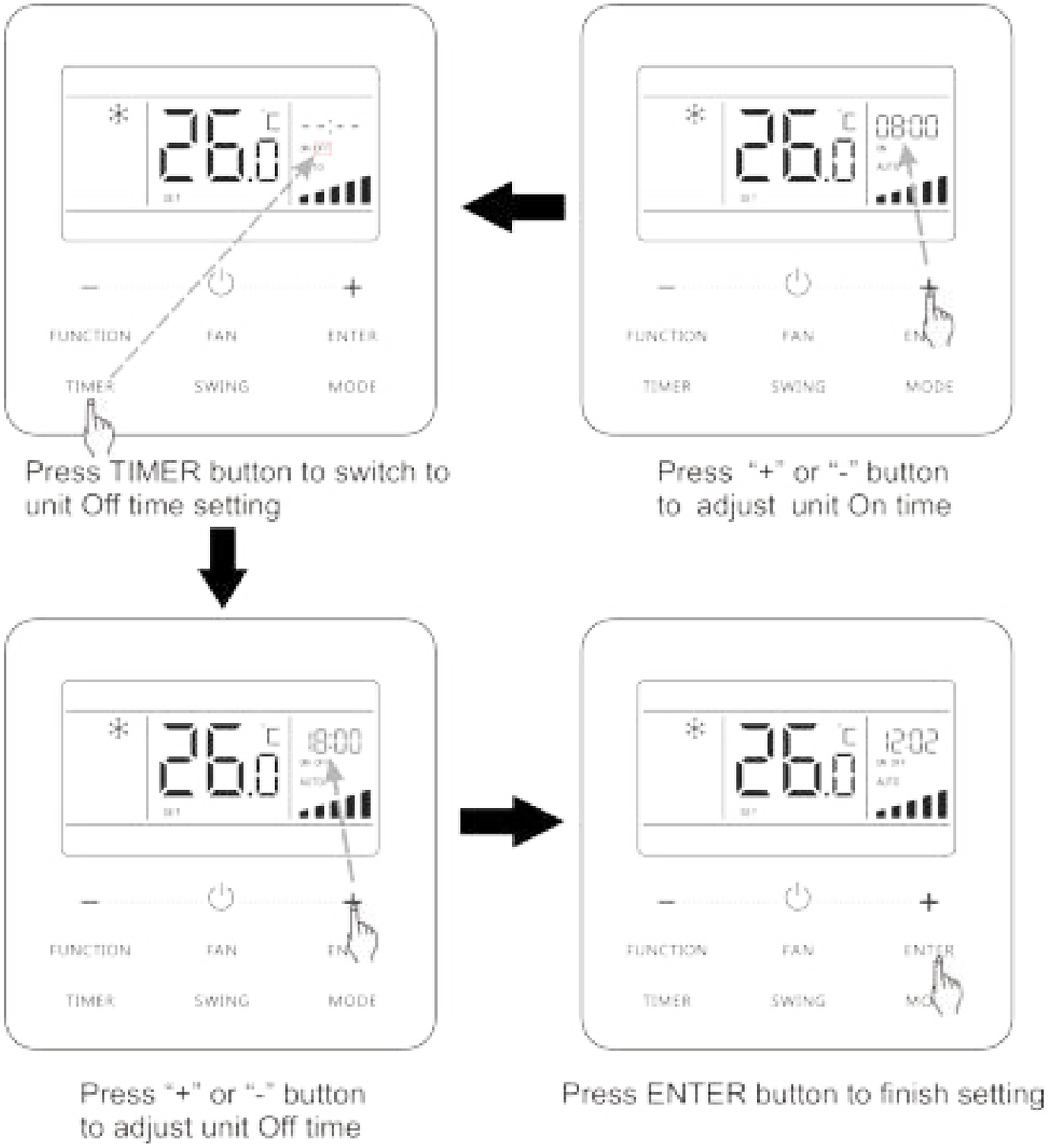


Fig. 5.3 Unit On/Off time setting in unit On status

NOTE: It is not applicable to partial units.

5.6 Swing Setting

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

(1) Up & down swing function

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

1) When simple swing mode is set in unit on status, press "SWING" button to start or stop up & down swing.
2) When fixed-angle swing mode is set in unit on status, press "SWING" button to adjust swing angle circularly as below:

(2) Left & right swing function*:

In unit on status, press "FUNCTION" button to switch to left & right swing function with left & right swing icon "" blinking, and then press "ENTER" button to start or cancel left & right swing. When left & right swing is activated, left & right swing icon "" will be bright.

5.7 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" button to activate.

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

NOTES:

① When Quiet function is enabled, indoor unit will operate at quiet fan speed. Fan speed is lowered so as to reduce the noise of indoor fan motor.

② When Auto Quiet function is enabled, indoor unit will change fan speed automatically according to room temperature. After room temperature reaches a set point, unit will operate at quiet fan speed.

5.8 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 "FUNCTION" button to switch to Sleep function and the Sleep icon " " will blink. Press "ENTER" button to turn on this function.

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

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

5.9 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" button to turn on Air function.

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

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 (60 min) 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 60 minutes, unit restarts timing and fresh air valve is open again. 6 minutes later, the valve is closed and the cycle repeats.

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

5.10 Save Setting

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

Start up Save function for Cooling: When the unit is off, simultaneously press "TIMER" and "+" buttons for 5s, the buzzer will give out a sound and then unit will enter into Save setting mode. "$" icon is blinking. Mode icon is on. Press "MODE" button to switch to Cooling or Dry mode. Press "+" or "-" button to adjust the temperature limit for Save function; press "ENTER" button to start up Save function.

Fig. 5.4 shows how to set Save function for Cooling:

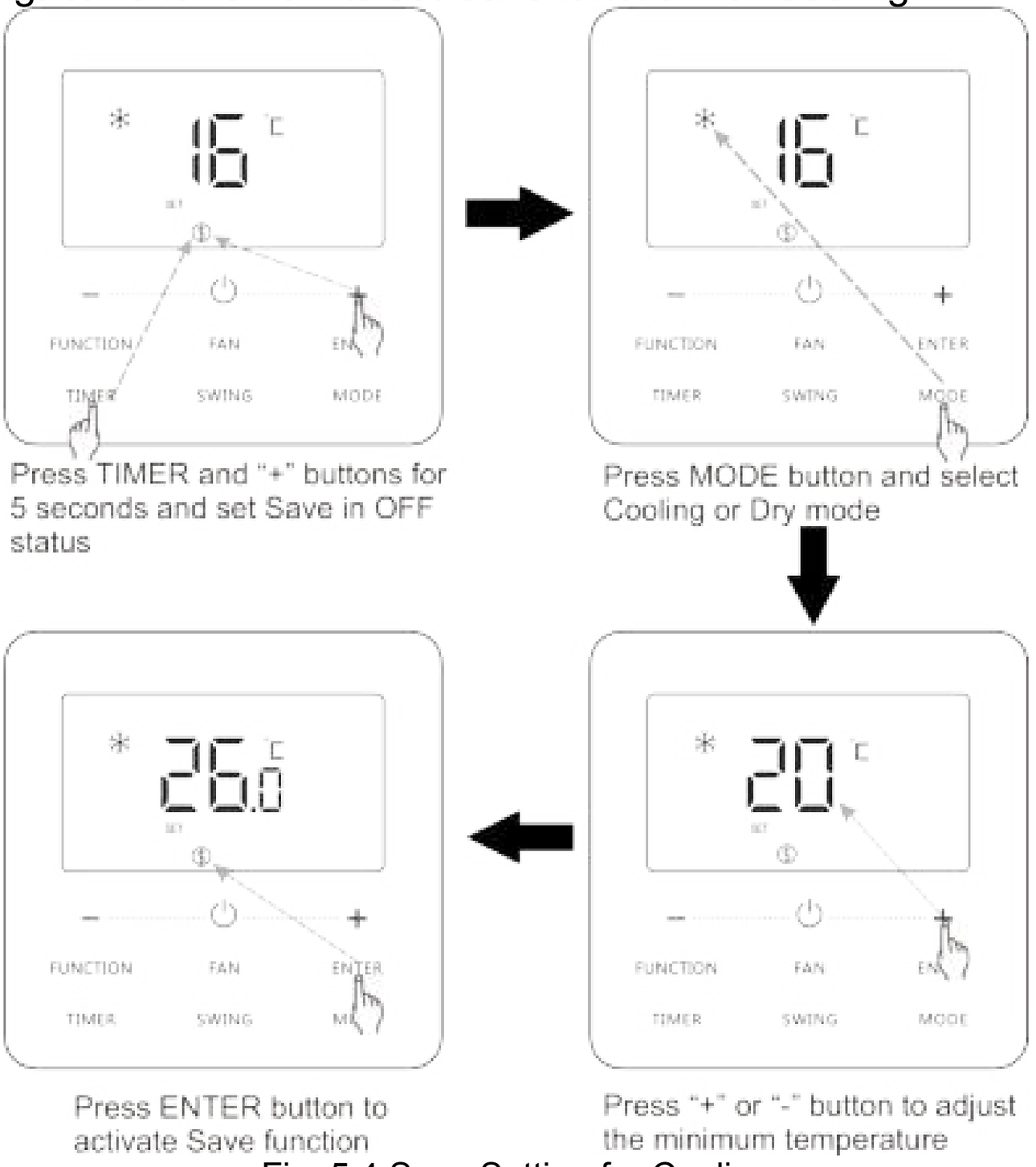


Fig. 5.4 Save Setting for Cooling

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. Mode icon is 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" 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" 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.

5.11 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. "" icon will blink. Press "+" or "-" button to adjust the cleaning level, of which the

range is 00, 10-39. Press "ENTER" 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 " " icon will blink. Set the cleaning level as 00 and press "ENTER" function to cancel this setting.

When Filter Clean Reminder time is up, " " icon will light up to remind you to clean the filter. There are two ways to cancel filter clean reminding:

(1) Press " " button twice within one second to cancel reminding and it will retime according to the original cleaning level.

(2) Press "FUNCTION" button to turn to Filter Clean Reminder Function, then press "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.

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.

5.12 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.

Under Cooling or Dry mode, press "FUNCTION" button to select X-fan. " " icon will blink. Then press "ENTER" button to turn on/off this function.

5.13 Health Setting*

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

When unit is on, press "FUNCTION" button to select Health. " " icon will blink. Then press "ENTER" button to turn on/off this function.

5.14 I-DEMAND Setting*

I-DEMAND Function: The unit will operate in the SE mode to save energy. I-DEMAND function can be only be used under cooling mode.

Under Cooling mode, press "FUNCTION" button to select I-DEMAND. " " will blink. Then press "ENTER" button to turn on/off this function.

NOTE: It is only applicable to U-match unit.

5.15 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.

Under Heating mode, press "FUNCTION" button to select Absence. " " icon will blink. Then press "ENTER" button to turn on/off this function.

5.16 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.

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

5.17 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.

5.18 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).

5.19 Inquiry of Indoor Temperature with One Button

In the homepage, hold "ENTER" button for 5 seconds, and 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.

5.20 Auto Clean Function

In the homepage, hold "MODE" and "TIMER" buttons for 5 seconds to turn on or turn off Auto Clean function. When Auto Clean function is turned on while the unit has not entered into the Auto Clean mode, " " icon is always on; when the unit has entered into the Auto Clean mode, " " will be flickering and timer zone will display the remaining time of Auto Clean mode.

Press " " button to exit the Auto Clean mode, " " icon will be off when the unit has exited the Auto Clean mode. All other buttons will not be activate when " " icon is always on or flickering.

Fig. 5.5 shows how to turn on Auto Clean function:

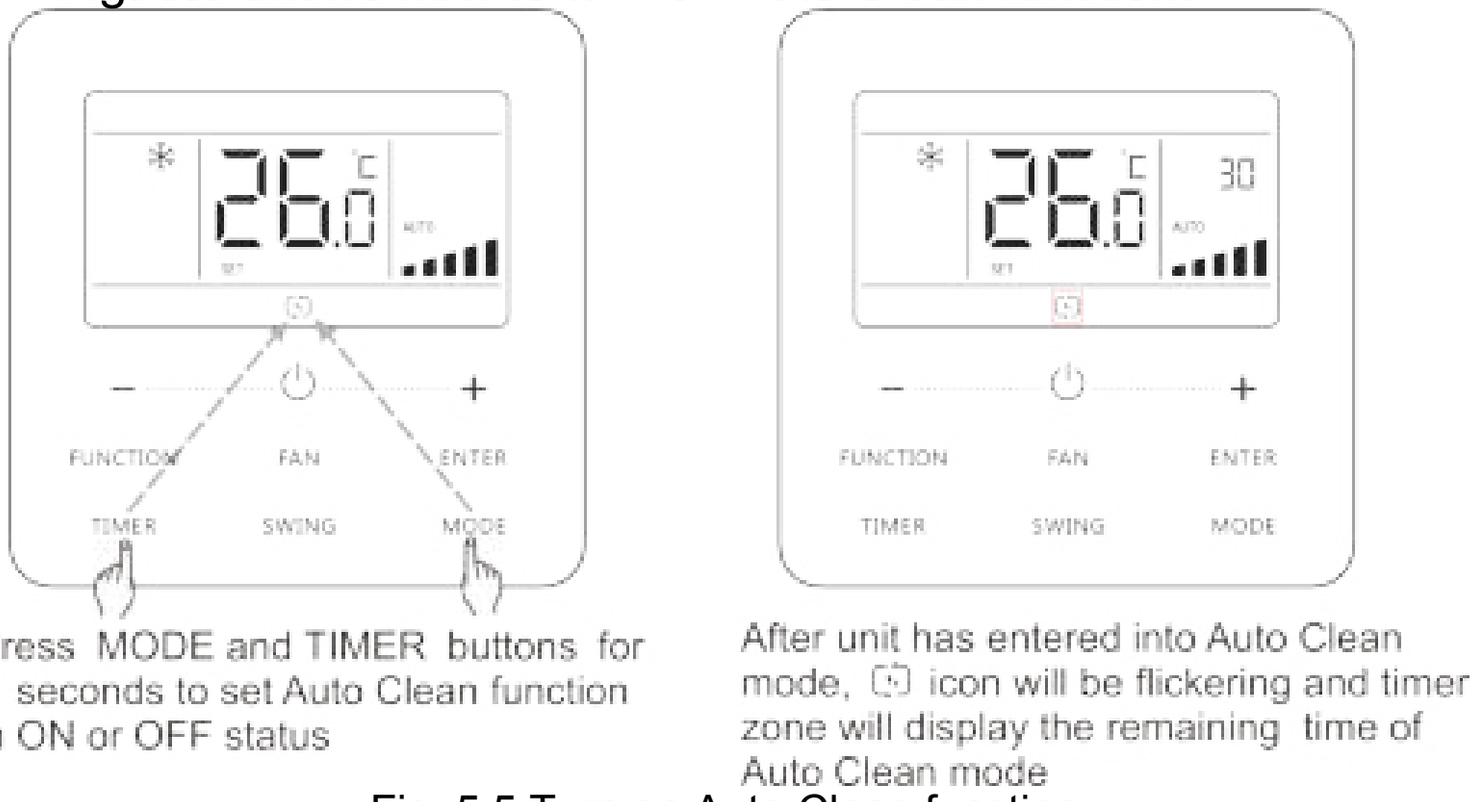


Fig. 5.5 Turn on Auto Clean function

NOTES:

① This function is only applicable to the unit with Auto Clean function.

② When the unit is faulty, Auto Clean function cannot be turned on.

③ During Auto Clean function is on, there will be phenomenon, such as frosting of evaporator of indoor unit, sound of liquid flow, and fluctuation of indoor temperature and humidity, which affects the comfort. Auto Clean function is recommended to be used when there are no people in the room. In order to ensure the cleaning effect, it is recommended to turn on Auto Clean function every three months.

④ The auto clean effect will be weakened if indoor environment humidity is low.

⑤ It is recommended to use Auto Clean function at the outdoor ambient temperature of 10℃~40℃. Otherwise, Auto Clean function will exit in advance, which is the normal phenomenon.

⑥ When an indoor unit in VRF system has entered into the Auto Clean mode, all other units in the system will operate under the auto clean mode.

⑦ When the wired controller controls U-match unit, Auto Clean function can only be turned on under OFF status and timer zone do not display the remaining time of the Auto Clean mode.

5.21 WiFi Function Setting

"TOSOT+" App can be used to control wired controller XE7A-24/HC. Please scan the QR code or search "TOSOT+" in the application market to download and install it. When "TOSOT+" App is installed, register the account and add the device to achieve long-distance control and LAN control of TOSOT smart home appliances.

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

When using the APP for the first time, please reset the WiFi function of wired controller (reset WiFi to ex-factory setting): when the unit is off, hold "FUNCTION" and "FAN" buttons for 5 seconds in the homepage; When the WiFi icon is flickering in 0.5 seconds to 0.5 seconds, it indicates that the current reset is valid. Then add the

device in APP.

NOTES:

① This function is only applicable to wired controller XE7A-24/HC.

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

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

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

5.22 Setback Function

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

In unit off status, if the air conditioner is operating in cooling or heating mode of Setback Function, the wired controller will display the status code "A9", which is the normal phenomenon.

NOTES:

① Setback Function is forbidden as defaulted; you can activate or

forbid Setback Function through P71 parameter setting.

② When the slave indoor unit is operating in Setback Function, it cannot operate in the mode which is in conflict with that of master indoor unit.

③ If you want to activate Setback Function, you cannot use the wired controllers of other models as the master wired controller or slave master controller.

④ When All Shield function of remote monitor or central controller is turned on, the wired controller can't enter or exits from Setback Function.

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

6 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. 6.1 is the display of Outdoor Unit High Pressure Protection when unit is on.

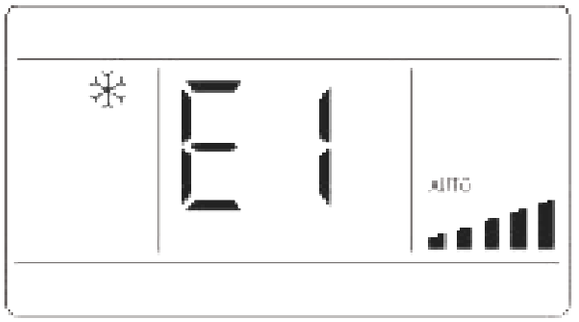


Fig. 6.1 Display of Outdoor Unit High Pressure Protection

6.1 Table of Display Codes for VRF unit

6.1.1 Table of Error Codes for Outdoor Unit

Error Code	Content	Error Code	Content
E0	Outdoor Unit Error	J9	System Pressure Under-Ratio Protection
E1	High Pressure Protection	JA	Protection of Abnormal Pressure
E2	Discharge Low Temperature Protection	JC	Protection of Water Flow Switch
E3	Low Pressure Protection	JL	Protection of Low High-pressure
E4	Excess Discharge Temperature Protection of Compressor	JE	Oil Return Pipe is Blocked
Ed	Low Temperature Protection of Driver Module	JF	Oil Return Pipe is Leaking
F0	Bad Performance of the Outdoor Mainboard	JJ	Low Water-in Temperature Protection

Error Code	Content	Error Code	Content
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
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

Error Code	Content	Error Code	Content
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
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

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

6.1.2 Table of Error Codes for Indoor Unit

Error Code	Content	Error Code	Content
L0	Indoor Unit Error	dL	Outlet Air Temperature Sensor Error

Error Code	Content	Error Code	Content
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
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

Error Code	Content	Error Code	Content
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
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

Error Code	Content	Error Code	Content
d8	Water Temperature Abnormality	o9	Communication Error of IDU Master Controller
d9	Jumper Cap Error	oA	High Temperature of IDU Module
dA	Indoor Unit Hardware Address Error	oC	IDU Charging Circuit Error
dH	Wired Controller PC-Board Error	ob	Temperature Sensor Error of IDU Module
dC	Capacity DIP Switch Setting Error	—	—

6.1.3 Table of Debugging Codes

Error Code	Content	Error Code	Content
U2	Outdoor Unit Capacity Code/Jumper Cap Setting Error	C0	Communication between indoor unit and outdoor unit and the communication between indoor unit and wired controller have malfunction
U3	Phase Sequence Protection of Power Supply	C1	Communication error of expansion board
U4	Protection of Lack of Refrigerant	C2	Communication error between master control and inverter compressor drive

Error Code	Content	Error Code	Content
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	Under voltage Protection of DC Bus Bar in Power Grid Side	CC	No master control unit error
UC	Master indoor unit is successfully set	CL	Rated capacity is too low
UL	Emergency Operation DIP switch setting of the compressor is wrong	CE	Communication Failure Between Mode Exchanger and Indoor Unit
UE	Refrigerant Charging is ineffective	CF	Error of Multiple Master Indoor Unit
UF	Indoor Unit Identification Error of Mode Exchanger	CJ	System addresses is incompatible
UJ	PV module F0 protection	CP	Error of Multiple Master Wired Controller

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	—	—

6.1.4 Table of Status Codes

Error Code	Content	Error Code	Content
A0	Unit is waiting for debugging	Ay	Shielding status
A1	Check the compressor operation parameters	n3	Compulsory defrosting
A2	After-sales Refrigerant Reclaim	q5	Setting of ordinary units and high sensible heat units

Error Code	Content	Error Code	Content
A3	Defrosting	q7	Select degree Celsius or Fahrenheit
A4	Oil return	q8	Discharge low temperature protection revision value b
A5	Online Testing	q9	Setting of defrosting mode
A8	Vacuum-pumping Mode	qL	Setting of static pressure
A9	Operate in Setback Function	qE	EVI Operating Mode
AH	Heating	qF	System compulsory cooling mode
AC	Cooling	qP	PV GMV Unit export area setting
AF	Fan	qU	Grid voltage system configuration
AJ	Filter Clean Reminder	qb	Anti-condensation temperature setting
AU	Remote Urgent Stop	qd	Setting of target degree of super-cooling of ODU
Ab	Emergency Stop	qn	PV grid-connected settings
Ad	Operation Restriction	qy	Working mode of compressor heating belt
An	Lock status	—	—

6.2 Table of Display Codes for U-match unit

6.2.1 Table of Error Codes of Outdoor Unit

Error Code	Content	Error Code	Content
E4	Discharge Protection	LA	Outdoor Fan 2 Error
H4	Overload Protection	L3	Outdoor Fan 1 Error
PA	ODU AC Current Protection	E3	System Low Pressure Protection
H5	Module Current Protection	E1	System High Pressure Protection
P8	Module Temperature Protection	U3	DC Bus Voltage Drop Error
E2	Freeze Protection	U5	Current Detecting Error of Complete Unit
L9	High Power Protection	PU	Capacitor Charging Error
U2	Compressor Phase Loss/Phase Reversal/Out of Phase	U1	Compressor Phase Current Circuit Detecting Error
HC	PFC Overcurrent Error	H7	Compressor Non-synchronism
PH	High Voltage Protection of DC Bus	HE	Compressor Demagnetization Protection
PL	Low Voltage Protection of DC Bus	LE	Compressor Stalling
Lc	Startup Failure	P6	Drive Board Communication Error

Error Code	Content	Error Code	Content
P0	Drive Module Reset	P5	Overcurrent of Compressor Phase Current
LF	Overspeed	PP	DC Input Voltage Error
C8	Compressor DIP Switch/Jumper Cap Error	Uo	Abnormal Outdoor Ambient Temperature (heating at too high ambient temperature or cooling at too low ambient temperature)
PF	Drive Board Ambient Temperature Sensor Error	b5	Liquid Valve Temperature Sensor Error
P9	AC Contactor Protection	b7	Gas Valve Temperature Sensor Error
PE	Temperature Shifting Protection	A5	Outdoor Condenser Inlet Pipe Temperature Sensor Error
Pd	Sensor Connection Protection (current sensor hasn't been connected to corresponding U phase or V phase)	A7	Outdoor Condenser Outlet Pipe Temperature Sensor Error
e3	Low Pressure Sensor Error	A4	Refrigerant Temperature Sensor Error
C7	Outdoor Pipe Middle Sensor Error	A3	ODU Refrigerant Heater Failure
E1	High Pressure Switch 2 Error	A2	ODU Refrigerant Heater Relay Adhesion Error

Error Code	Content	Error Code	Content
C9	Compressor Drive Storage Chip Error	E6	Communication Error between ODU and IDU
Ad	Outdoor Fan Out-of-phase Protection	C4	ODU Jumper Cap Error
AE	Outdoor Fan Current Detecting Circuit Error	dJ	AC Phase Sequence Protection (phase loss or phase reversal)
Ac	Outdoor Fan Startup Failure	e1	High Pressure Sensor Error
AJ	Outdoor Fan Non-synchronism Protection	UL	Outdoor Fan Overcurrent Protection
EL	Emergency Operation Stop	A1	Outdoor Fan IPM Module Protection
oE	Other Error of Compressor	C6	Discharge Temperature Sensor Error
dc	Compressor Suction Temperature Sensor Error	C3	Outdoor Condenser Middle Pipe Temperature Sensor Error
P7	Module Temperature Sensor Circuit Error	U7	4-way Valve Commutation Error
U8	Zero-crossing Signal Error	Cd	Abnormal Electrical Level of Selected Port
F3	Outdoor Ambient Temperature Sensor Error	EE	Memory Chip Read and Write Error
E3	Refrigerant Lacking Protection	—	—

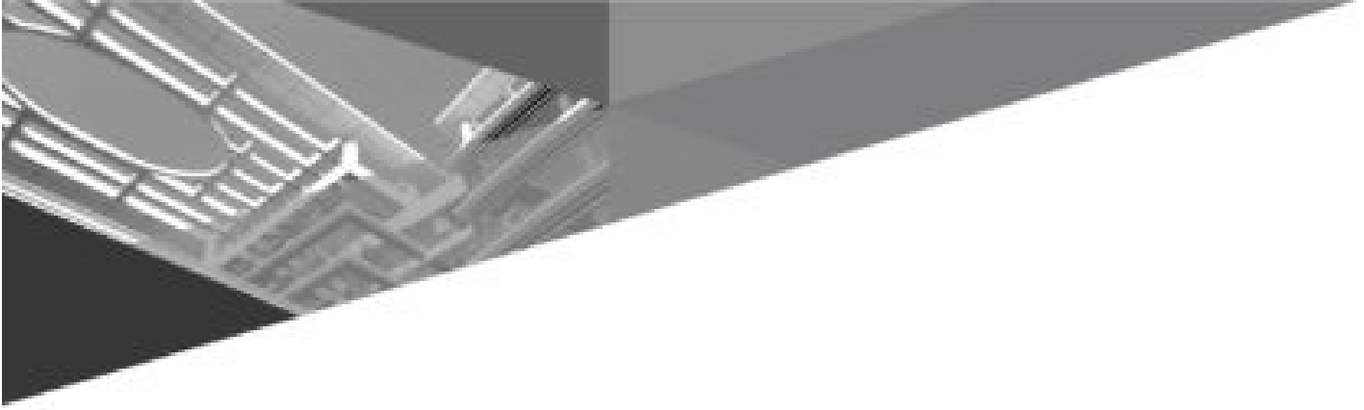
6.2.2 Table of Error Codes of Indoor Unit

Error Code	Content	Error Code	Content
E0	Indoor Fan Error	L1	Indoor Humidity Sensor Error
qA	Inverter Indoor Fan Drive Current Detecting Circuit Error	qC	Main Control and Inverter Indoor Fan Drive Communication Error
C1	Indoor Ambient Temperature Sensor Error	qd	Inverter Indoor Fan Drive Module High Temperature Protection
C2	Indoor Evaporator Middle Temperature Sensor Error	qE	Inverter Indoor Fan Drive Module Temperature Sensor Error
E9	IDU Water Full Protection	qF	Inverter Indoor Fan Drive Storage Chip Error
CJ	IDU Jumper Cap Error	qH	Inverter Indoor Fan Drive Charging Circuit Error
q3	Inverter Indoor Fan Drive IPM Module Protection	qL	Inverter Indoor Fan Drive AC Input Voltage Abnormal Protection
q0	Low Voltage Protection or Voltage Drop Error of Inverter Indoor Fan Drive DC Bus	qo	Inverter Indoor Fan Drive Electric Box Temperature Sensor Error
q1	High Voltage Protection of Inverter Indoor Fan Drive DC Bus	qp	Inverter Indoor Fan Drive AC Input Zero-crossing Protection

Error Code	Content	Error Code	Content
q2	Inverter Indoor Fan AC Current Protection (input side)	C0	Communication Error between Indoor Unit and Wired Controller
q4	Inverter Indoor Fan Drive PFC Protection	qb	Inverter Indoor Fan Non-synchronism Protection
q5	Inverter Indoor Fan Startup Failure	CP	Multiple Master Wired Controllers Error
q6	Inverter Indoor Fan Out-of-phase Protection	L5	Wired Controller Power Supply Overcurrent Protection
q7	Inverter Indoor Fan Drive Module Reset	L7	Group-controlled IDU Series Inconsistency
q8	Inverter Indoor Fan Overcurrent Protection	CE	Wired Controller Temperature Sensor Error
q9	Inverter Indoor Fan Power Protection	dH	Wired Controller Circuit Board Error
L4	Wired Controller Power Supply Circuit Failure	Lb	Group-controlled IDU Inconsistency of Reheat Dehumidification System
L6	Group-controlled IDU Quantity Inconsistency	—	—

6.2.3 Table of Status Codes

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



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