



Wall Mounted Controller Features & Functions



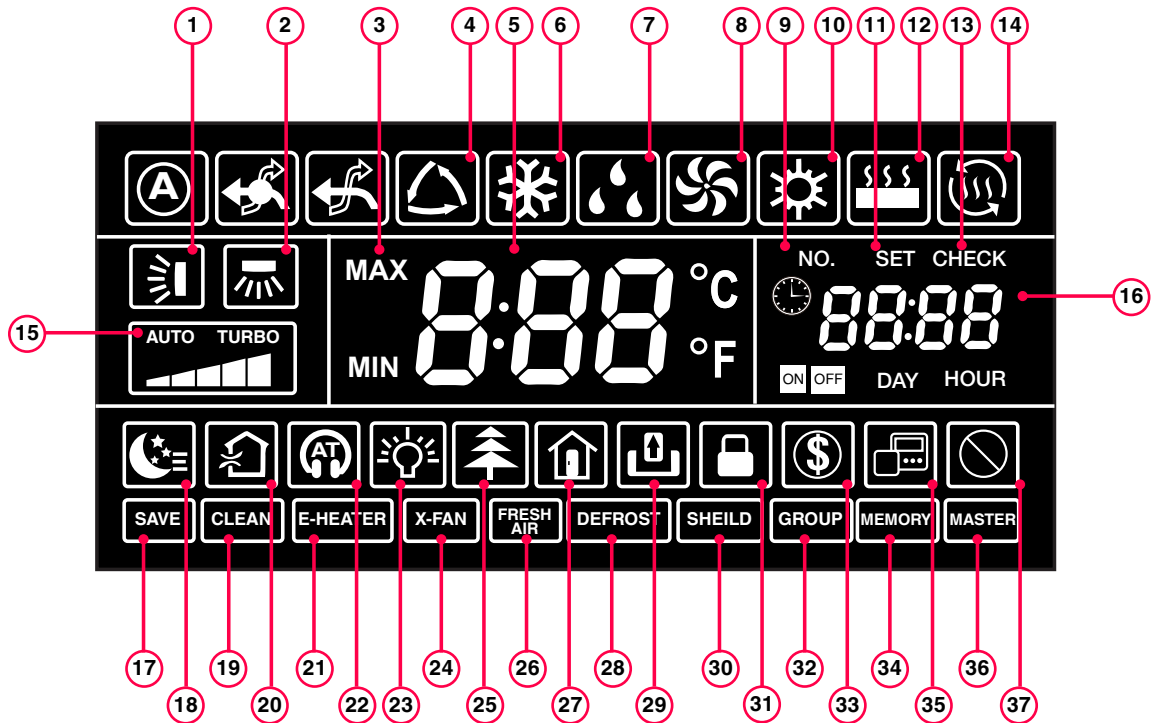
XK46















Wired Wall Mounted Controller

USERS GUIDE

YMGI Group

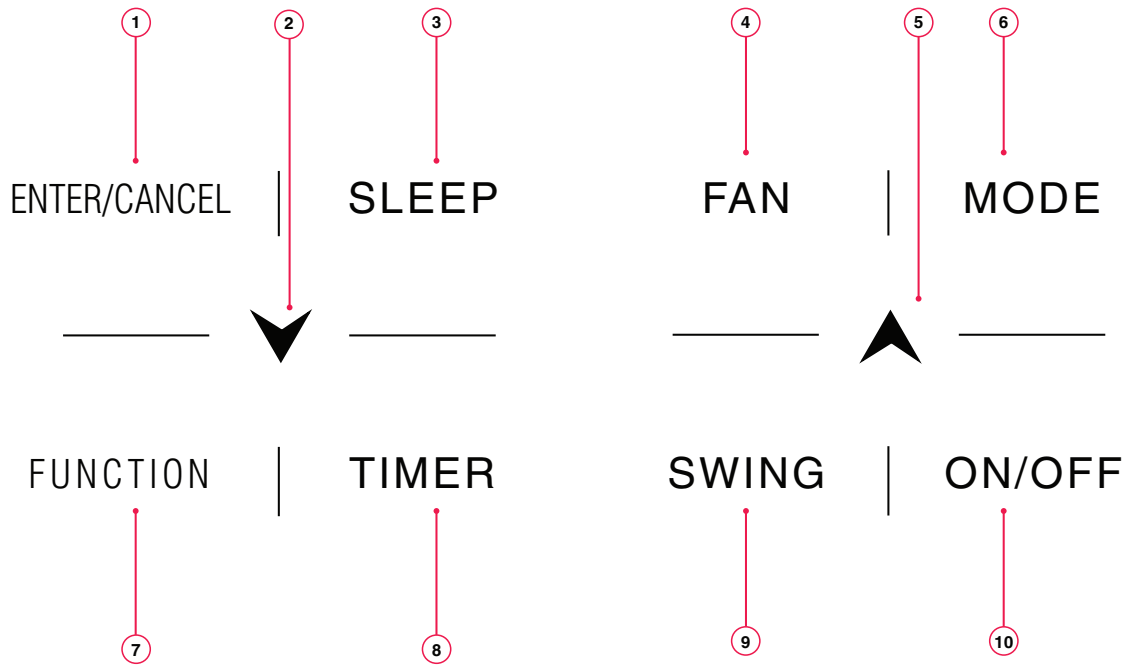
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No.	Symbol	Function
1		Up and down swing function.
2		Left and right swing function.
3	MAX MIN	Valid under Save mode. Displays during setting process. Temperature Low limit for Cooling. Limits the minimum temperature in Cooling or Dry modes. Temperature High limit for Heating. Limits the maximum temperature in Heating or 3D Heating mode.
4		Auto Mode. (In Auto Mode the indoor units will automatically set their operation mode based on the temperature change to keep the conditioned space comfortable)
5	8:88 °C °F	Displays the set temperature value. (if the wired controller is controlling a Fresh Air Unit, the temperature zone will display as FAP)
6		Cooling Mode
7		Dry (Dehumidify) Mode
8		Fan Mode
9	NO.	When querying or setting project number of Indoor Unit, the No. icon will display.
10		Heating Mode
11	SET	Display "SET" icon under parameter setting interface.
12		Floor Heating Mode (When Heating and Floor Heating show simultaneously, it indicates that 3D heating is active)
13	CHECK	Display "Check" icon under parameter view interface
14		Space Heating Mode
15		Current set Fan Speed. (Auto, Low, Medium Low, Medium, Medium High, High and Turbo)
16		Timer zone displays system clock and timer status.
17	SAVE	Outdoor Unit operates under Save mode / upper limit of system capacitor less 100% / remote save status.
18		Sleep status
19	CLEAN	Reminder icon to clean the filter
20		Air status, indoor unit operation function.
21	E-HEATER	Auxiliary electric heating On icon
22		Quiet status (display indicates Quiet and Auto Quiet)

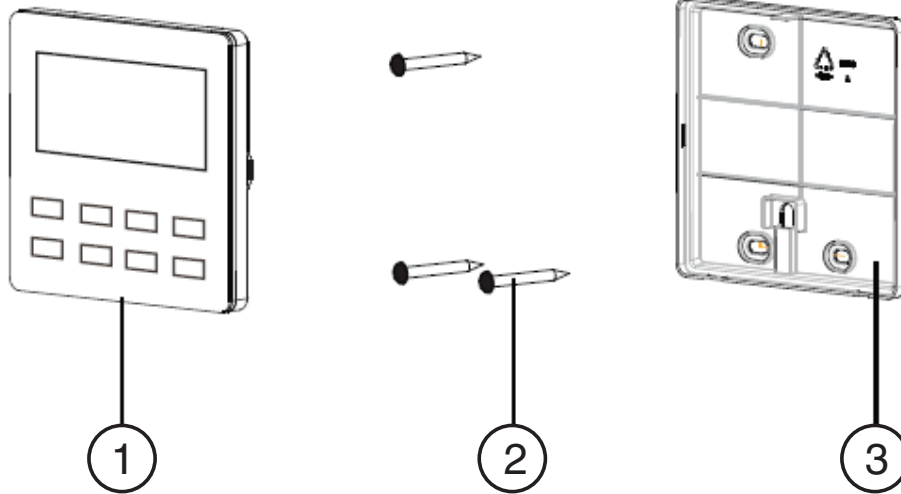
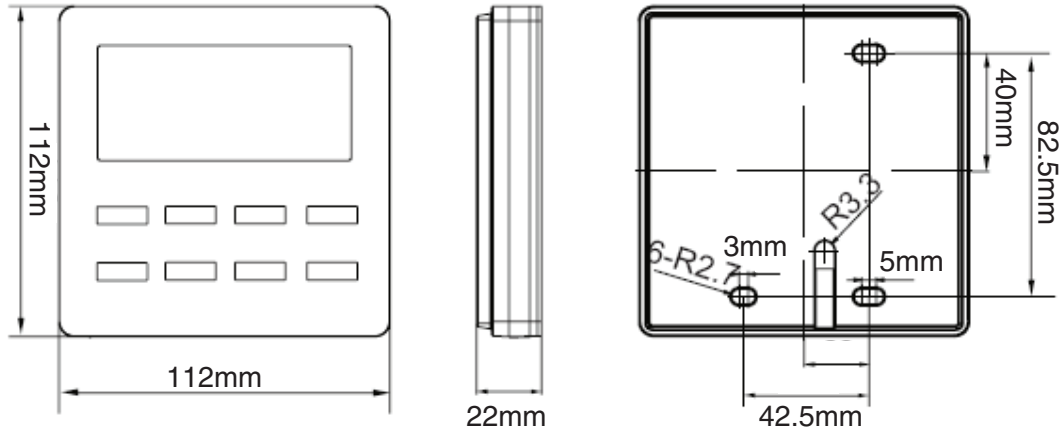


No.	Symbol	Function
23		Light On/Off function
24		X-fan Function
25		Health function, Indoor unit optional function
26		Reserved function
27		Out function
28		Outdoor Unit defrosting status
29		Gate control function
30		Shielding status
31		Child Lock Status
32		One wired controller controls multiple indoor units
33		Economy (Save) status of Indoor Unit
34		Memory (Indoor unit resumes with original settings after power failure and recovery)
35		Current wired controller is slaved wired controller (address of wired controller is 02)
36		Selected wired controller is master to indoor unit
37		Invalid operation



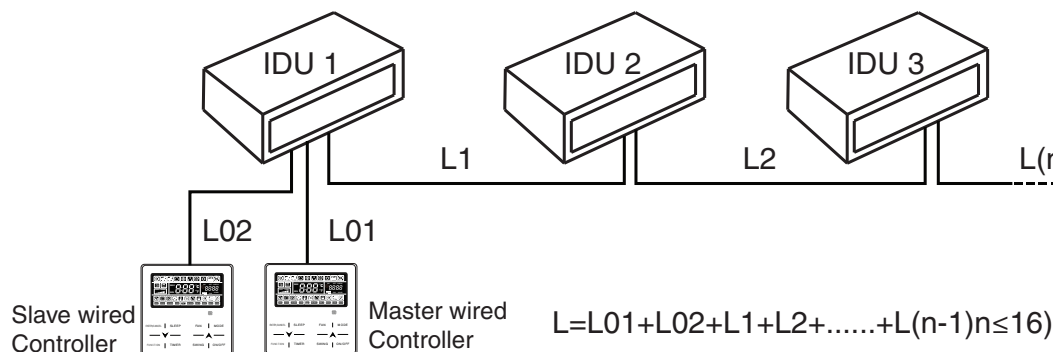
No.	Buttons	Instructions
1	ENTER/CANCEL	Select and cancel function
2		1. Set operating temperature of indoor unit 2. Set timer 3. Switch to QUIET mode, Air grade, Clean grade, set upper and lower temperature limit in SAVE mode. 4. Set and query parameter
5		
3	SLEEP	Set SLEEP mode
4	FAN	Switch between Auto, Low, Low-Medium, Medium, Medium-High, High and Turbo speed settings.
6	MODE	Switch between Auto, Cooling, Dry (Dehumidify), Heating, 3D Heating, and Space Heating modes on Indoor Unit. (Note: the Floor Heating, 3D Heating, and Space Heating function icons will only appear if the unit has those functions).
7	FUNCTION	Switch between Air, Quiet, Light, Health, Out, Save, Clean, E-heater and X-fan functions
8	TIMER	Timer setting
9	SWING	Set up and down swing function
10	ON/OFF	Indoor unit On/Off
2+5		Simultaneously press “  ” and “  ” for 5 seconds to enter or cancel the Child Lock function
5+6	MODE + 	Press both buttons for 5 seconds while Indoor Unit is OFF to switch between C° and F°.

WIRED CONTROLLER DIMENSIONS & PARTS



No.	Name	Quantity
1	Front Panel of wired controller	1
2	Self-tapping Screw ST3.9X25 MA	3
3	Footplate of wired controller	1

INSTALLATION OF WIRED CONTROLLER



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)	$L \leq 250$	2×0.75~ 2×1.25	IEC 60227-5:2007	<ol style="list-style-type: none"> Total length of communication line can't exceed 250m The cord shall be Circular cord (the cores shall be twisted together). If unit is installed in places with intense magnetic field or strong interference, it is necessary to use shielded wire.

Notes:

- If the air conditioner is installed in an area with strong electromagnetic interference, the communication line of the wired controller must use shielded twisted pair.
- Communication lines for wired controllers must strictly use the materials recommended by this instruction manual.

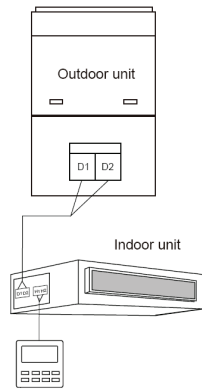
INSTALLATION OF WIRED CONTROLLER

1. Do not install the wired controller in damp or humid places.
2. Do not install the wired controller in direct sunshine places.
3. Do not install the wired controller near heat sources, or near places where the controller may come in contact with water.
4. Do not install the wired controller in a place where it faces a window. Prevent abnormal operation due to the interference from other wired controllers that may be installed near by.

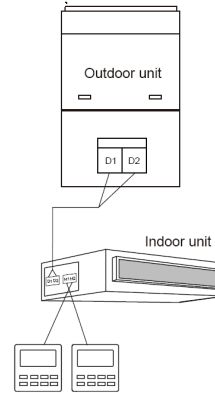


Wiring Requirements

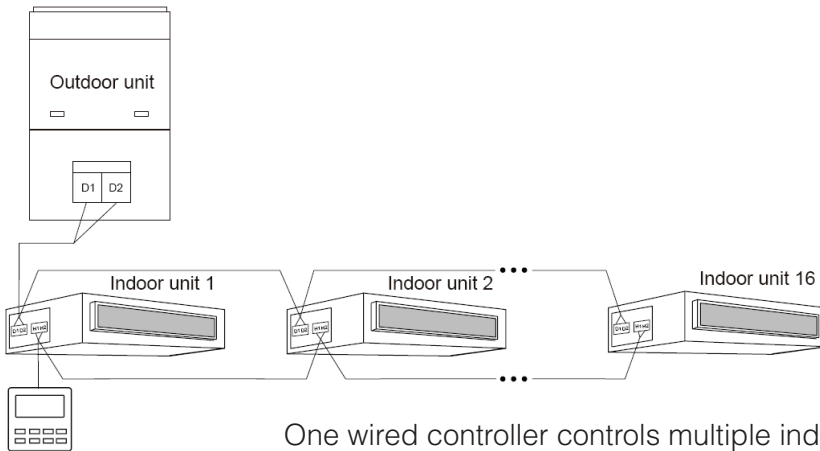
There are four network wiring methods between wired controller and indoor unit:



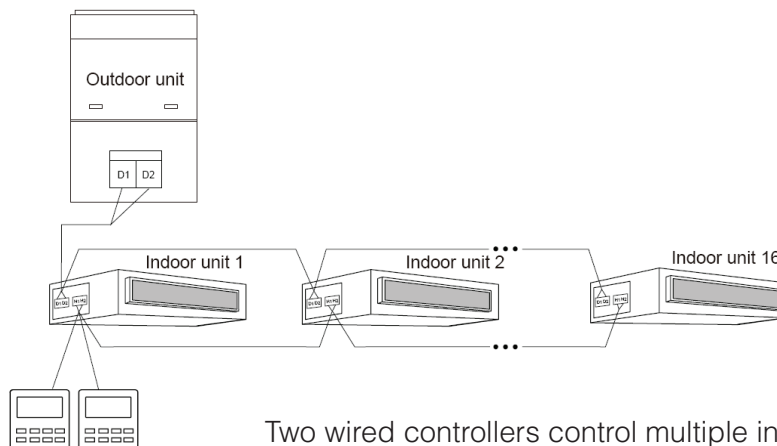
One wired controller controls one indoor unit



Two wired controllers control one indoor unit



One wired controller controls multiple indoor units simultaneously.



Two wired controllers control multiple indoor units simultaneously

Wiring instructions:

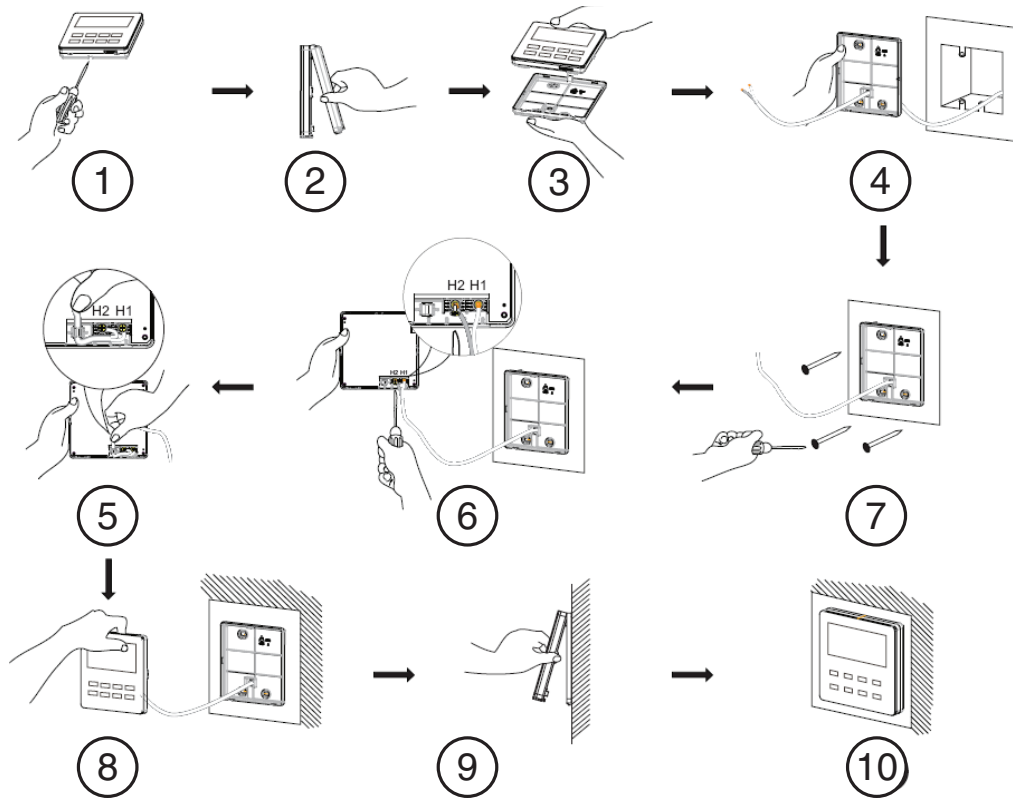
1. When one wired controller controls multiple indoor units simultaneously, the wired controller can connect to any one indoor unit, but the connected indoor unit must be the same series indoor unit. The total quantity of indoor units controlled by the wired controller can't exceed 16 sets, and the connected indoor unit must be within the same indoor unit's network. Wired controller must set the quantity of the group controlled indoor units. Please refer to Parameters Setting.
2. When two wired controllers control one indoor unit, the addresses of those two wired controllers should be different. Please refer to Parameters Setting.
3. When two wired controllers control multiple indoor units, wired controller can be 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 Parameters Setting. The total quantity of indoor unit controlled by wired controller can't be more than 16 sets and all connected indoor units must be within the same indoor unit network. Wire controller must set quantity of group control indoor units. Please refer to Parameters Setting.
4. When one (or two) wired controller(s) control(s) multiple indoor units at the same time, the controlled indoor unit's setting should be the same.
5. Wiring of wired controller and indoor unit network must be according to one of the four wiring methods 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.

Note:

Series of indoor units include:

- 1. Common Multi VRF Units**
- 2. Fresh Air Units**
- 3. Double-heat Sources Units**
- 4. Combined Units**

Except for fresh air units, double-heat sources units and combined units, the rest of indoor units belong to common multi VRF units.



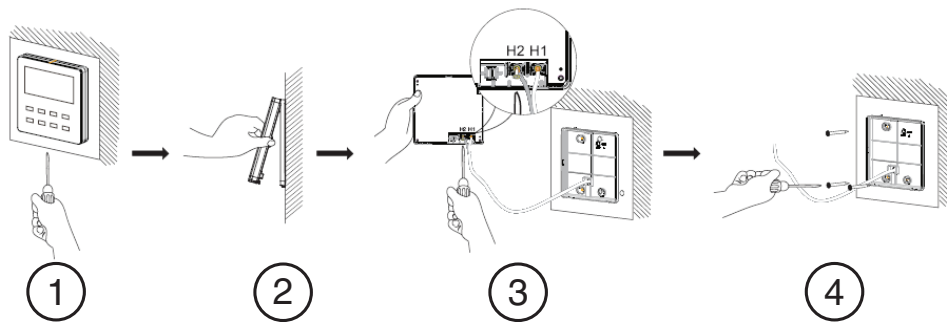
Illustrations above demonstrates the simple installation process of a wired controller.

Please pay attention to the following items during installation:

1. Before installation, turn off the power for indoor unit.
2. Pull out the two-core twisted pair from the installation hole on wall, then pull the wire through the “□” shape hole on the rear side of Footplate of wired controller.
3. Place the bottom plate of wired controller on the wall and then use Self-tapping Screw ST3.9X25 MA to affix Footplate 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 on the left side of wiring column, and then bundle panel and Footplate of wired controller together.

Note:

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



Illustrations above demonstrates the disassembly diagram of wired controller.

Set Master Indoor Unit

Under Off status, press and hold the MODE button for 5s to set the corresponding indoor unit of wired controller as master indoor unit. “MASTER” icon will be light up once it is set.

Notes:

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

Parameter Enquiry

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

1. 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:

Parameter Code	Parameter Name	Parameter Range	Viewing Method
C00	Entrance of adjustable parameter	-	In “C00” status, Timer zone shows the current indoor unit project number. When one wired controller is controlling multiple indoor units, then only the smallest project number will be displayed.
C01	View the project number of indoor unit and locate the faulted indoor unit	1-255 Project number of online indoor unit	<p>Operation method: Enter viewing, press MODE button in “C01” status to enter the interface to view the indoor unit project number. Press “▲” or “▼” button to select the project number of indoor unit.</p> <p>Display method: Temperature Zone: displays error codes of the current indoor unit(The temperature zone will display the error codes in turn with an interval of 3 seconds if there are several malfunctions in one indoor unit.) Timer Zone: displays present indoor unit project number /C5 malfunction of project number conflict</p> <p>Note:</p> <ol style="list-style-type: none"> 1. If master indoor unit exists in current indoor unit network, “MASTER” icon will be bright under “C01” interface. After entering the interface of viewing project number, “MASTER” icon will be bright only when the project number of master indoor unit is selected. 2. System will not exit “C01” viewing automatically. User has to exit this interface manually.
C03	View the indoor unit quantity of the system network	1-80	Timer zone: Displays the indoor unit quantity of the system
C06	View priority operation	00: normal operation 01: priority operation	<p>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.</p> <p>Display method:</p> <ol style="list-style-type: none"> 1. Temperature zone: Displays current indoor unit project number. 2. Timer zone: Displays current priority operation setting value of indoor unit.
C07	View indoor ambient temperature	-	<p>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.</p> <p>Display method: Temperature zone: displays current indoor unit project number; Timer zone: displays indoor ambient temperature.</p>



Parameter Code	Parameter Name	Parameter Range	Viewing Method
C08	View Filter Clean Reminder time	4-416: days	Timer zone: displays Filter Clean Reminder time
C09	View address of wired controller	01, 02	Timer zone: displays the address of wired controller
C11	View the indoor unit quantity in the case that one wired controller controls several indoor units at the same time	1-16	Timer zone: displays the indoor unit quantity controlled by the wired controller
C12	View outdoor ambient temperature	-	Timer zone: displays outdoor ambient temperature
C17	View indoor relative humidity	20~90 relative humidity 20%~90%	<p>Operation method: Enter into review process and press "MODE" button to enter into the review interface of indoor relative humidity under C17 status. Press "▲" or "▼" button to switch the number of indoor unit.</p> <p>Display method: Temp area: display current indoor unit's project number Timer zone: display indoor relative humidity</p>
C18	One-button viewing of indoor unit project number	1-255:Project Number of online indoor unit	<p>Operation method: Enter viewing, short-press "MODE" button in "C18" status to turn on the function of one-button viewing indoor unit project code, and the wired controller will enter the interface of viewing indoor unit project code. Press "▲" or "▼" button to select the indoor unit.</p> <p>Display method: Temperature zone: displays number of the current indoor unit Timer zone: displays project number of indoor unit</p> <p>Notes:</p> <ol style="list-style-type: none"> After turning on the one-button viewing function, each wired controller of the entire system will display the project number of its controlling indoor unit on its timer zone. (The timer zone will display different project numbers in turn with an interval of 3 seconds if one wired controller is controlling multiple indoor units.) Slave wired controller cannot view "C18". <p>Cancel method:</p> <ol style="list-style-type: none"> If user exits the "C18" interface manually, the one-button viewing function will be immediately turned off. If system exits the "C18" interface due to no action in 20 seconds, user has to press the "ON/OFF" button under on/off status to cancel this function. After the one-button viewing function is turned on, pressing the "ON/OFF" button of any wired controller of the same system network under on/off status will cancel this function
C20	View the air outlet temperature of Fresh Air Indoor Unit*	-	<p>Operation method: Enter viewing, short-press "MODE" button in "C20" status to enter the interface of viewing air outlet temperature of Fresh Air Indoor Unit. Press "▲" or "▼" button to select the indoor unit.</p> <p>Display method: Temperature zone: displays current indoor unit project number Timer zone: displays air outlet temperature of Fresh Air Indoor Unit Note: only applicable to Fresh Air Indoor Unit.</p>

Notes:

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

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:

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	1. It can be set only through master wired controller. 2. When infrared receiver of wired controller is forbidden, the wired controller can't receive the signal from remote controller and it is operated through buttons.
P13	Set address of wired controller	01: master wired controller 02: slave wired controller	01	When two wired controllers control one indoor unit (or several indoor units), the addresses of the two wired controllers should be different. Assistant wired controller (02) is without unit parameter setting function except setting its address.
P14	Set quantity of group control indoor units	00: forbid this function 01-16: indoor unit quantity	01	Set the corresponding value according to the connected indoor unit quantity.
P16	Set unit of temperature	00:Celsius 01:Fahrenheit	00	-
P30	Set static pressure of indoor fan motor	01-09: static pressure level of indoor fan motor	05	There are two kinds of static pressure level: 5 levels: 03, 04, 05, 06, 07 9 levels: 01, 02, 03, 04, 05, 06, 07, 08, 09 Wired controller can be adapted to the different types of indoor units that it possesses 1-9 level selection for setting static pressure. When the indoor unit with 5 static pressure levels received the level setting sent by wired controller is less than 3, it will be settled as the 3rd level; if it is over 7, it will be settled as the 7th level.
P31	High ceiling installation*	00: installation height of standard ceiling 01: installation height of high ceiling	00	Only applicable to cassette units
P33	Set Timer	00: general timer 01: clock timer	00	-
P34	Clock Timer repetition is valid	00: once 01: repeat everyday	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.



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°)	01	Only applicable to units with air-return plate
P50	Air outlet temperature setting for Fresh Air Indoor Unit in cooling*	16°C~30°C	18°C	Only applicable to Fresh Air Indoor Unit
P51	Air outlet temperature setting for Fresh Air Indoor Unit in heating*	16°C~30°C	22°C	Only applicable to Fresh Air Indoor Unit
P54	Union setting of Fresh Air Indoor Unit*	00: without union control 01: with union control	00	After union function is set, Fresh Air Indoor Unit will be turned on/off following the on/off status of common indoor unit. Fresh Air Indoor Unit can also be turned on/off manually. Note: only applicable to Fresh Air Indoor Unit.

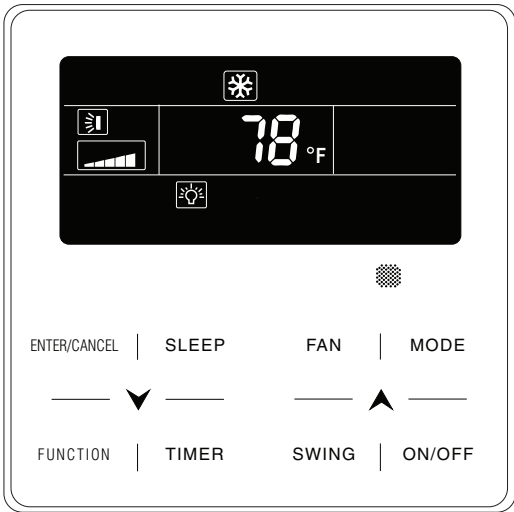
Note:

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

OPERATION INSTRUCTIONS



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 figures below.



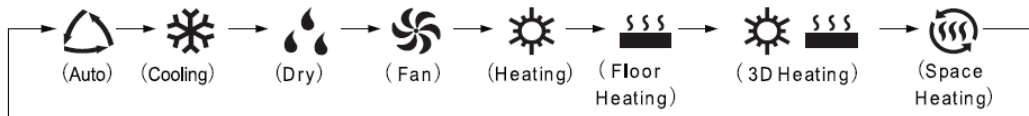
Interface of ON status



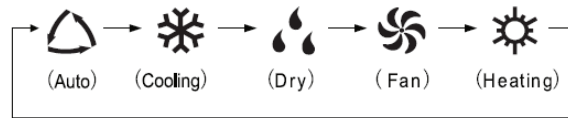
Interface of OFF status

MODE SETTING

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



OR



Notes:

- Available modes are different for different models, the wired controller will automatically select mode setting range according to the model of indoor unit.
- The Auto mode can be only set at the master indoor unit.
- 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.

TEMPERATURE SETTING

Pressing “” and “” button in On status increases or decreases set temperature by 1°F or 1°C. Holding down “” and “” button increases or decreases set temperature by 1°F or 1°C every 0.3s.

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

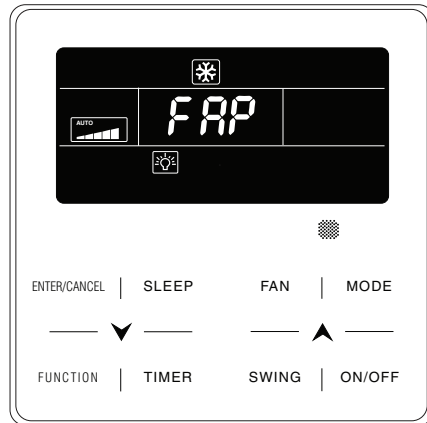
In Dry mode, the temperature setting range is 54°F (12°C), 61°F~86°F (16°C~30°C). In Dry (Dehumidify) mode, when temperature is 61°F (16°C), continuously press “” button twice to decrease temperature to 54°F (12°C).

When Save function is activated, the temperature in Dry mode can't be adjusted to 54°F (12°C) and the setting range is “lowest temperature in Save mode” ~86°F(~30°C).



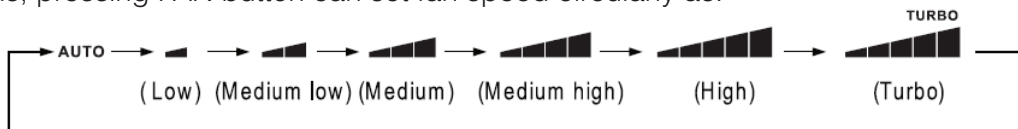
Notes:

1. In Auto mode or when the Out function is activated, the setting temperature can not be adjusted by pressing “▲” and “▼”
2. When the wired controller is connected with a Fresh Air Indoor Unit, fresh air indoor unit code “FAP” will be displayed as shown below. Setting temperature won’t be displayed and can’t be adjusted via “▲” and “▼” button. The air outlet temperature in cooling or heating can only be set in the parameter setting status.



FAN SETTING

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



Notes:

1. In Dry (Dehumidify) 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.

TIMER SETTING

The wired controller is equipped with two kinds of timer: General Timer and Clock Timer. General Timer is a factory defaulted setting. Please refer to Parameter Setting Section for the instructions for procedure for timer setting.

General Timer

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

Set Timer

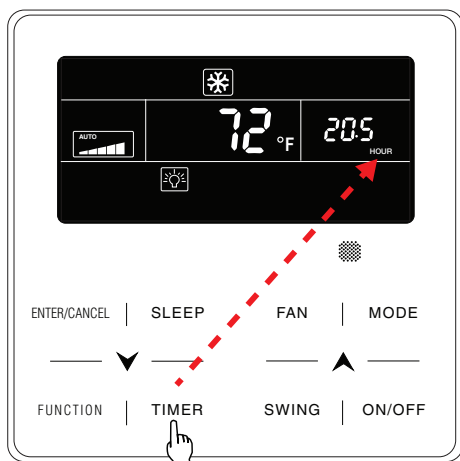
When timer is not set, press TIMER button to enter timer setting and “HOUR” icon is blinking. Press “▲” or “▼” button to adjust timer time. Press TIMER button to save the setting and then exit setting.

Cancel Timer

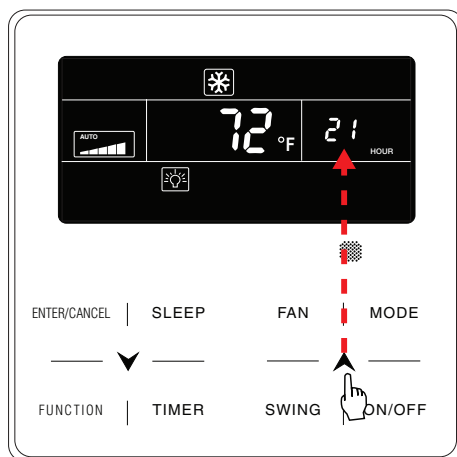
When timer is set, press TIMER button to cancel it.

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.

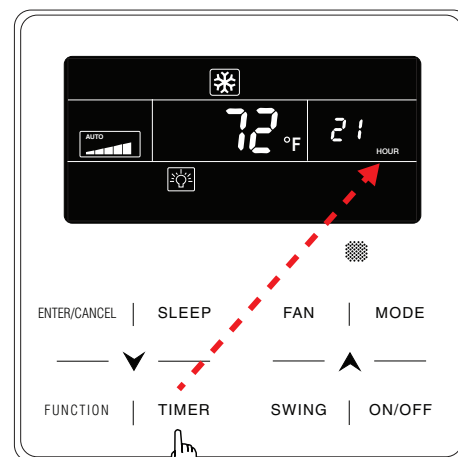
In unit ON status, timer OFF setting is as shown in figure below:



1. Press TIMER button to set timer.



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



3. Press TIMER button to finish timer setting.

SETTING THE CLOCK

Clock display

When the timer setting method uses the clock timer, the timer zone displays the system clock when the unit is in ON and OFF status. The “🕒” icon will appear, and the clock can be set at this time.

Setting the Clock:

Press the TIMER button for 5 seconds to enter clock setting and the “🕒” icon is blinking. Pressing “▲” or “▼” button increases or decreases clock time by 1 minute. Holding “▲” or “▼” button for 5 seconds increases or decreases clock time in 10 minute intervals. Press ENTER/CANCEL button or TIMER button to save the setting and then exit setting.

Clock Timer

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

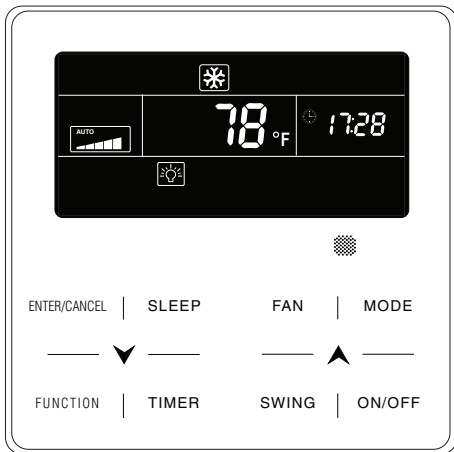
Set Timer:

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 the 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

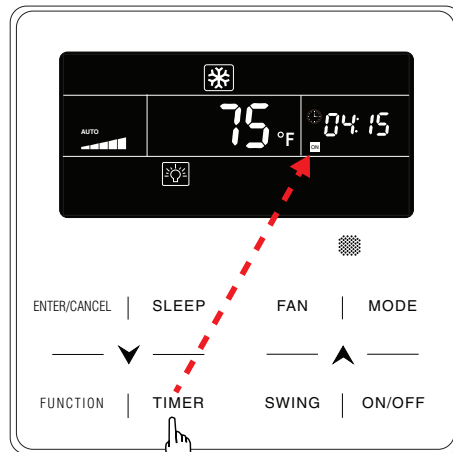
Cancel Timer:

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.

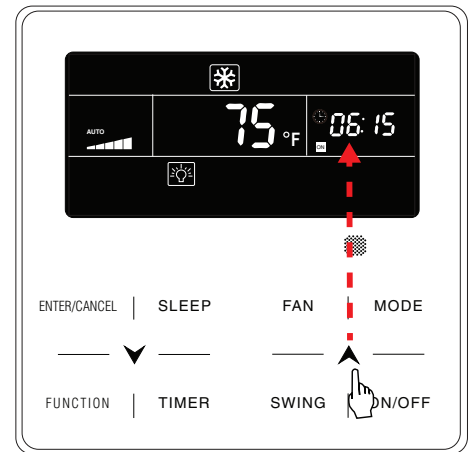
Pressing “▲” or “▼” button increases or decreases timer set time by 1 minute. Holding “▲” or “▼” button for 5 seconds increases or decreases timer set time by 10min.



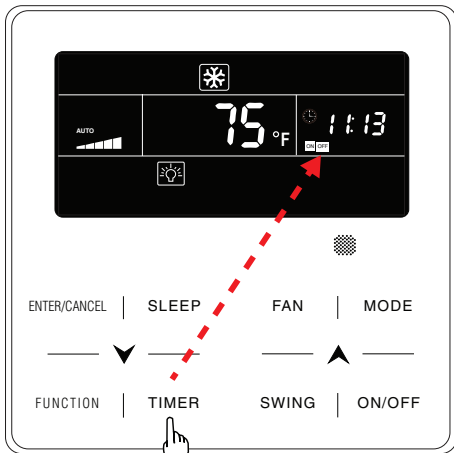
1. Unit is on and timer is not set



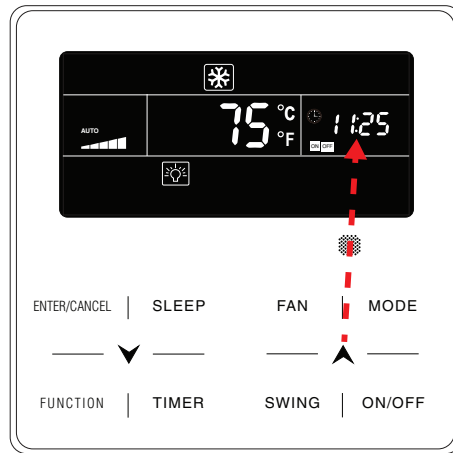
2. Press TIMER button to set unit ON time



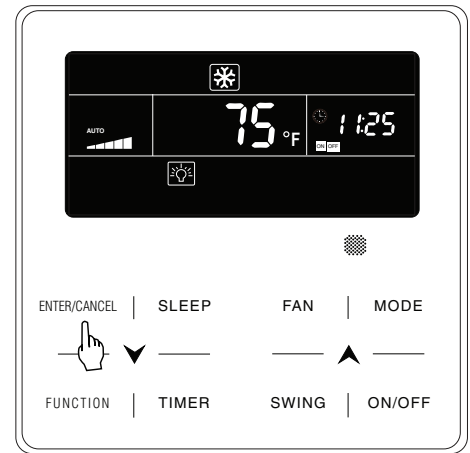
3. Press “▲” or “▼” button to adjust unit ON time



4. Press TIMER button to switch to unit OFF time setting



5. Press “▲” or “▼” button to adjust unit OFF time




6. Press ENTER/CANCEL button to finish setting

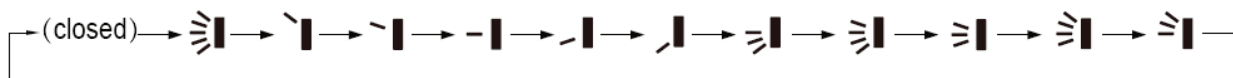
SWING SETTING

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

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:



Left & Right Swing function

Left & Right Swing

In unit ON status, press the “FUNCTION” button and switch to Left & Right Swing function with Left & Right Swing icon  blinking, and then press “ENTER/CANCEL” button to start Left & Right Swing. When Left & Right Swing is activated, the Left & Right Swing icon  light up on the display.

Cancel left & right swing



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

QUIET SETTING

Quiet Function decreases the running noise of the indoor unit.

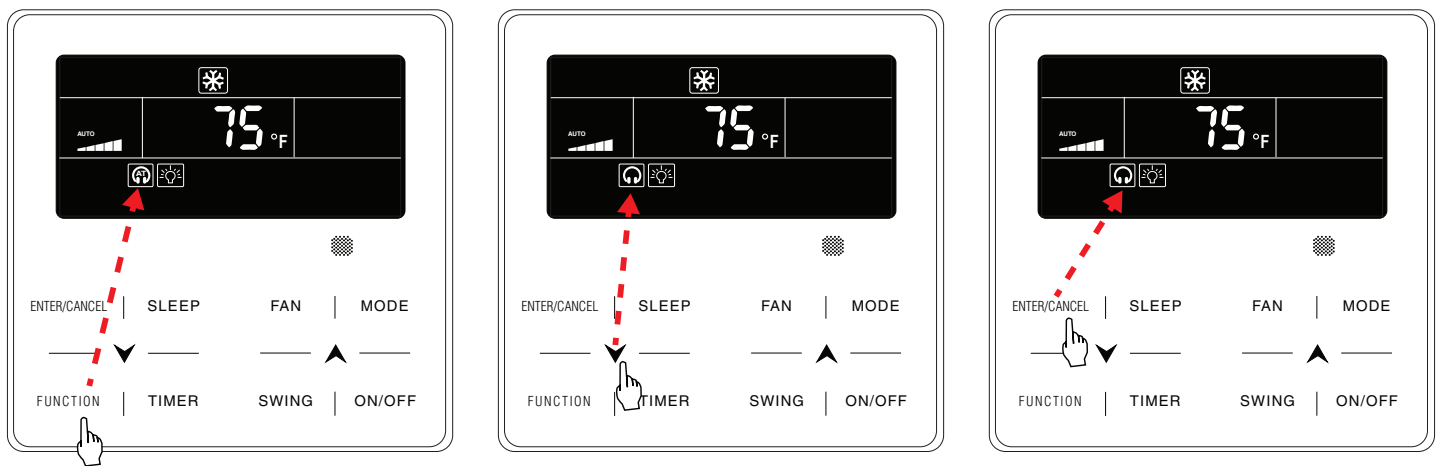
Quiet function has two modes: Quiet mode and Auto Quiet mode. It is available only in Auto, Cooling, Dry, Fan, Heating, 3D heating, Space heating mode.

Turn ON Quiet Function

Press FUNCTION button until the Quiet function is selected. Selection is indicated when the Quiet icon  or Auto Quiet icon  is blinking. You can press “▲” or “▼” button to switch between Quiet and Auto Quiet, and then press ENTER/CANCEL button to activate.

Turn OFF Quiet Function

When the Quiet function is activated, press the FUNCTION button until the Quiet function is selected, and then press ENTER/CANCEL button to cancel Quiet function.



1. Press FUNCTION button to turn select the Quiet function

2. Press “▲” or “▼” to select between Quiet and Auto Quiet

3. Press ENTER/CANCEL button to activate the Quiet function

Notes:

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



SLEEP FUNCTION

When the Sleep Function is activated, the unit will operate according to the preset sleep curve to provide a more comfortable sleeping environment.

Turn ON/OFF Sleep Function

When the unit is turned on, press SLEEP button to activate the Sleep function. Press the SLEEP button a second time to cancel Sleep function.

When Sleep function is activated, the “☾” icon is lit and quiet or auto quiet mode is automatically activated.

If the Quiet mode is activated, the Sleep function is not available. To turn on the Sleep function, you must first turn off the Quiet mode. The Sleep function is available in Auto, Fan or Floor Heating modes.

AIR SETTING*

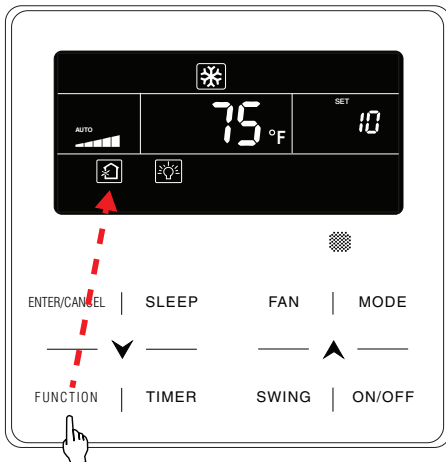
Air Function allows you to adjust the amount of indoor fresh air to improve air quality and keep indoor air fresh.

Turn ON Air Function

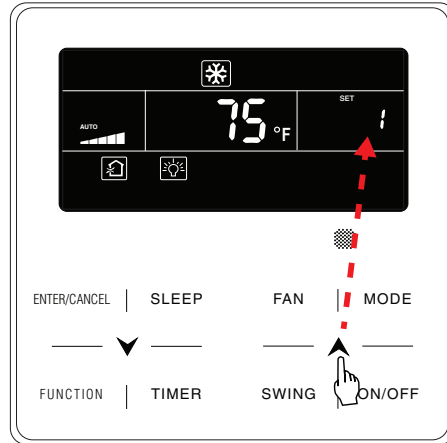
When unit is on or off, press FUNCTION button and select Air. “🏠” icon will blink and the unit enters into Air setting. Temperature zone shows the level of Air setting, which can be adjusted by pressing “▲” or “▼” button. The adjustment range is 1~10. Press ENTER/CANCEL button to turn on Air function.

Turn OFF Air Function

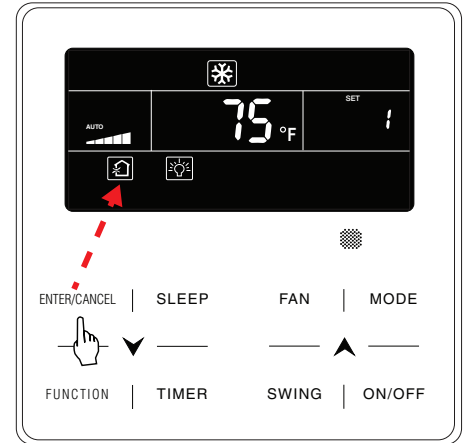
When Air function is activated, press FUNCTION button to select Air, then press ENTER/CANCEL button to cancel this setting.



1. Press FUNCTION button and select Fresh Air.



2. Press “▲” or “▼” button to adjust the the Fresh Air setting level between 1 and 10.



3. Press ENTER/CANCEL button to turn on Fresh Air function.

1. Air function is only effective for units with air function and fresh air motorized 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, the unit begins countdown and the fresh air valve is opened. 6 minutes later, fresh air valve is closed and unit continues running. After 60 minutes elapses, the unit restarts countdown, and fresh air valve is opened again. 6 minutes later, the valve is closed and the cycle restarts.

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 open

Note:

The time indicated in the table:

Unit's operating time (min) / Fresh Air Valve opening time during operating time (min)

LIGHT ON/OFF SETTING

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.

Notes:

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

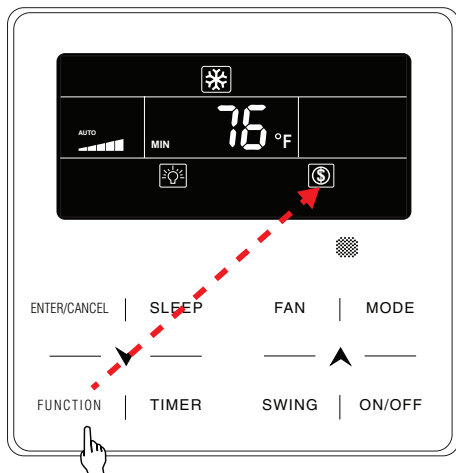
1. If Light function is activated, the back light of LCD will turn to half brightness.
2. If Light function is off, the back light of LCD will be off.

SAVE SETTING

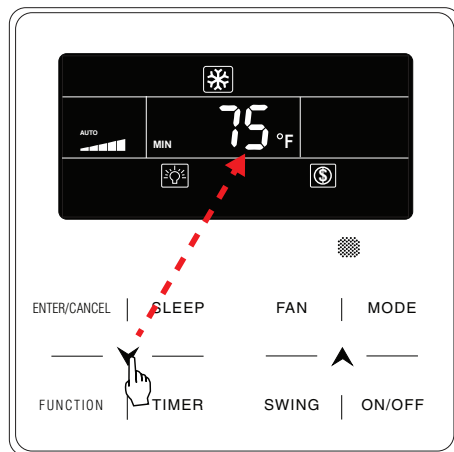
Setting the minimum temperature under Cooling and Dry modes and setting maximum temperature under Heating, 3D Heating and Space Heating modes to help save energy and money.

Save Setting for Cooling

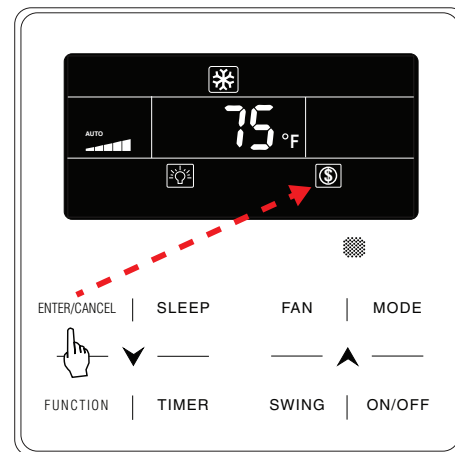
When unit is on and under Cooling or Dry mode, press FUNCTION button to select Save function. “\$” icon will blink and MIN icon will light up. Press “▲” or “▼” button to adjust to the minimum temperature. Press ENTER/CANCEL button to activate this function.



1. Press FUNCTION button and select Save



2. Press “▲” or “▼” button to adjust the minimum temperature



3. Press ENTER/CANCEL button to activate Save function



Save Setting for Heating

When unit is on and under Heating, 3D Heating and Space Heating modes, press FUNCTION button to select Save function. The “\$” icon will blink and MAX icon will light 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. The “\$” icon will blink when selected. Then press ENTER/CANCEL button to cancel this setting.

FILTER CLEAN REMINDER SETTING

The unit will remember its own operating time. When the set time has elapsed, this function will remind you to clean the filter. A dirty filter can result in poor heating and cooling performance, abnormal protection, and bacteria not being filtered out of the cycled air.

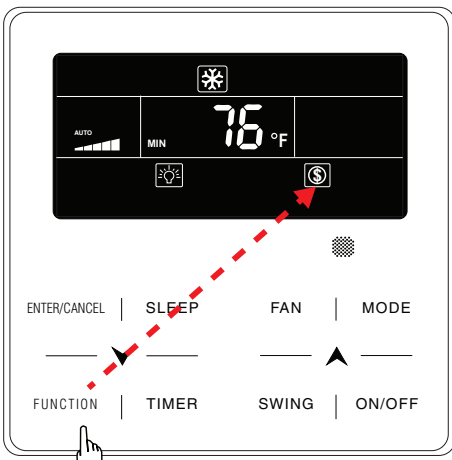
Turn on Filter Clean Reminder Function

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

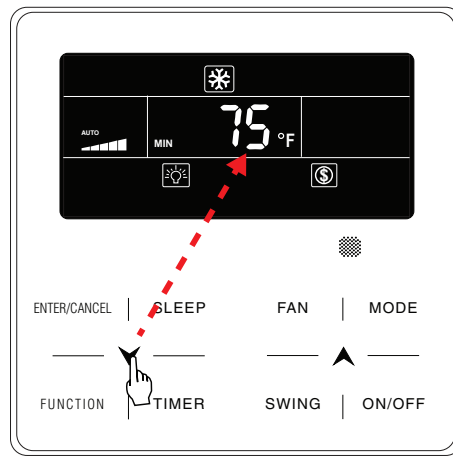
Turn off Filter Clean Reminder Function

When unit is on and this function has been activated, press the FUNCTION button and select Clean. Then “CLEAN” icon will blink. Set the cleaning level as 00 and press ENTER/CANCEL function to cancel this setting.

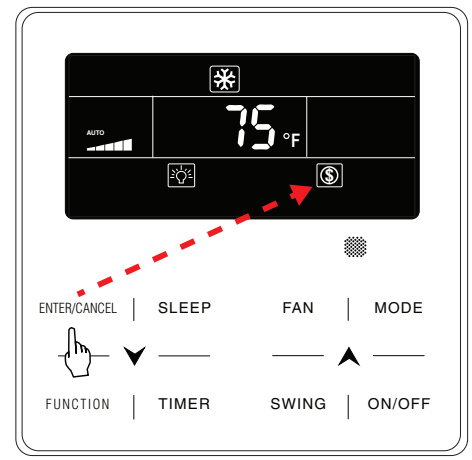
When Filter Clean Reminder time has elapsed, the “CLEAN” icon will light up to remind you to clean the filter. Press FUNCTION button to select the Filter Clean Reminder Function, then press SWING/ENTER to cancel reminder, and it will resume the countdown according to the original cleaning level. The clean reminding can be canceled only when you don't reset the cleaning level under the Filter Clean Reminder function.



1. Press FUNCTION button and select Save



2. Press “▲” or “▼” button to adjust the minimum temperature



3. Press ENTER/CANCEL button to activate Save function

Description of cleaning levels

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
Clean Level Turned Off	Timer zone shows 00
Slight Pollution	The first digit shows 1 while the second shows 0, which indicates the accumulating operating time is 5500 hours. Each time the second digit increases 1, the operating time increases 500 hours. When it reaches 9, it means the operating time is 10000 hours.
Medium Pollution	The first digit shows 2 while the second one shows 0, which indicates the accumulating operating time is 1400 hours. Each time the second digit increases 1, the operating time increases 400 hours. When it reaches 9, it means the operating time is 5000 hours.
Heavy Pollution	The first digit shows 3 while the second one shows 0, which indicates the accumulating operating time is 100 hours. Each time the second digit increases 1, the operating time increases 100 hours. When it reaches 9, it means the operating time is 1000 hours.


X-FAN SETTING

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. The “” icon will blink when selected. 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. The “” icon will blink when selected. Then press ENTER/CANCEL button to turn off this function.


OUT SETTING

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. The “” icon will blink when selected. 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. The “” icon will blink when selected. Then press ENTER/CANCEL button to turn off this 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, the “” icon will be displayed. If user wants to control the unit using the wired controller, the “” icon will blink to remind that these controls are disabled.

CHILD LOCK FUNCTION

When unit is turned on normally or turned off, pressing “” and “” buttons simultaneously 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.

GATE-CONTROL FUNCTION

When installed in a Gate-control System, user can insert a card to turn on the unit, or pull off a card to turn the unit off. When the card is re-inserted, the unit will recover the operation as stored in memory. When the card is pulled out (or improperly inserted), “” icon will show, neither remote control nor operation of wired controller will be effective and icon “” will blink.

Note

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

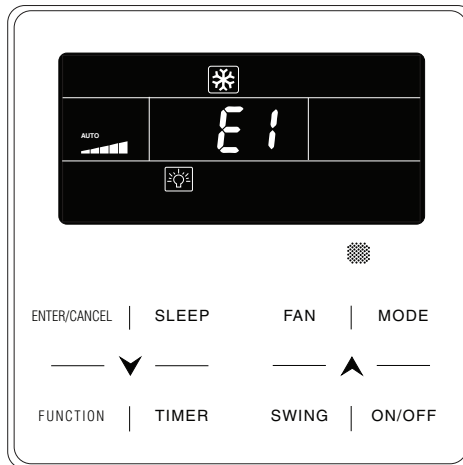
ERROR DISPLAY



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.



Display of Outdoor Unit High Pressure Protection

TABLE OF ERROR CODES FOR OUTDOOR UNIT

Error Code	Content	Error Code	Content	Error Code	Content
E0	Outdoor Unit Error	FL	Compressor 3 Current Sensor Error	b2	Defrosting Temperature Sensor 1 Error
E1	High Pressure Protection	FE	Compressor 4 Current Sensor Error	b3	Defrosting Temperature Sensor 2 Error
E2	Discharge Low Temperature Protection	FF	Compressor 5 Current Sensor Error	b4	Subcooler Liquid-out Temperature Sensor Error
E3	Low Pressure Protection	FJ	Compressor 6 Current Sensor Error	b5	Subcooler Gas-out Temperature Sensor Error
E4	Excess Discharge Temperature Protection of Compressor	FP	Malfunction of DC motor	b6	Gas-liquid separator inlet temperature sensor error
P0	Compressor Drive Board Error	FU	Compressor 2 Top Temperature Sensor Error	b7	Gas-liquid separator outlet temperature sensor error
P1	Compressor Drive Board Malfunction	Fb	Compressor 2 Top Temperature Sensor Error	b8	Outdoor Humidity Sensor Error
P2	Protection of Compressor Drive Board Power Supply	J1	Compressor 1 Over-current Protection	b9	Heat Exchanger Gas-out Temperature Sensor Error
P3	Protection of Compressor Drive Board Module Reset	J2	Compressor 2 Over-current Protection	bA	Oil-return Temperature Sensor Error



TABLE OF ERROR CODES FOR OUTDOOR UNIT

Error Code	Content	Error Code	Content	Error Code	Content
H0	Error of Fan Drive Board	J3	Compressor 3 Over-current Protection	bH	System Clock Malfunction
H1	Malfunction of Fan Drive Board	J4	Compressor 4 Over-current Protection	bC	Compressor 1 Top Temperature Sensor Detachment Protection
F0	Bad Performance of the Outdoor Mainboard	J5	Compressor 5 Over-current Protection	bL	Compressor 2 Top Temperature Sensor Detachment Protection
F1	High Pressure Sensor Error	J6	Compressor 6 Over-current Protection	bE	Malfunction of entry tube temperature sensor of condenser
F3	Low Pressure Sensor Error	J7	4-way Valve Blow-by Protection	bF	Malfunction of exit tube temperature sensor of condenser
F5	Compressor 1 Discharge Temperature Sensor Error	J8	System Pressure Over-Ratio Protection	bJ	High and low pressure sensors are connected inversely
F6	Compressor 2 Discharge Temperature Sensor Error	J9	System Pressure Under-Ratio Protection	b1	Outdoor Ambient Temperature Sensor Error
F7	Compressor 3 Discharge Temperature Sensor Error	JA	Protection of Abnormal Pressure		
F8	Compressor 4 Discharge Temperature Sensor Error	JC	Protection of Water Flow Switch		
F9	Compressor 5 Discharge Temperature Sensor Error	JL	Protection of Low High-pressure		
FA	Compressor 6 Discharge Temperature Sensor Error	JE	Oil return pipe is blocked		
FH	Compressor 1 Current Sensor Error	JF	Oil return pipe is leaking		
FC	Compressor 2 Current Sensor Error	H2	Protection of Fan Drive Board Power Supply		

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	d7	Humidity Sensor Error
L1	Indoor Fan Protection	LH	Low Air Quality Warning	d8	Water Temperature Sensor Error
L2	E-heater Protection	LC	Outdoor-Indoor Incompatibility Error	d9	Jumper Cap Error
L3	Water Full Protection	LP	Zero-crossing malfunction of PG motor	dA	Indoor Unit Hardware Address Error
L4	Wired Controller Power Supply Error	d1	Indoor Unit PC-Board Error	dH	Wired Controller PC-Board Error
L5	Anti-Frosting Protection	d3	Ambient Temperature Sensor Error	dC	Capacity DIP Switch Setting Error.
L7	No Master Indoor Unit Error	d4	Inlet Pipe Temperature Sensor Error	dL	Outlet Air Temperature Sensor Error
L8	Power Insufficiency Protection	d5	Malfunction of middle tube temperature sensor	dE	Indoor Unit CO2 Sensor Error
L9	Quantity Of Group Control Indoor Units Setting Error	d6	Outlet Pipe Temperature Sensor Error	db	Special Code: Field Debugging Code



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		

TABLE OF STATUS CODES

Error Code	Content	Error Code	Content
A0	Unit is waiting for debugging.	AU	Remote Urgent Stop
A1	Check the compressor operation parameters.	Ab	Emergency Stop
A2	After-sales Refrigerant Reclaim	Ad	Operation Restriction
A3	Defrosting	An	High temperature prevention control
A4	Oil return	n3	Compulsory defrosting
A5	Online Testing	n5	Forced move of indoor unit project number
A8	Vacuum-pumping Mode	nL	Target low pressure modification
AH	Heating	nJ	High temperature prevention under heating mode
AC	Cooling	nP	Temperature-adjusting value during defrosting
AF	Fan	nU	Clear the remote control shielding order of indoor unit
AJ	Filter Clean Reminder		



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(55) Multiple PV, (56) Single PV; (78) Multiple PH; (79) Single PH
- **Symphony SOLO DC Inverter**
(57)2,3-Single Zone 16 SEER, 09-24K Btu/h
(58)2-Single Zone 16-22 SEER, 09-36K Btu/h
(58)3-Single Zone 21 SEER, 09-36K Btu/h
(58)4-Single Zone 30 SEER, 09-18K Btu/h
- **Symphony CHOIR DC Inverter**
(59)2-DC Inverter Multiple Zone 16 SEER, 2x09K to 5x12K Btu/h
(59)4-DC Inverter Multiple Zone 21 SEER, 2x09K to 5x12K Btu/h
(59)2S-DC Inverter Multiple Zone 16 SEER 6x09K to 9x09K Btu/h
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601 Arrow Ln, O'Fallon, MO 63366
www.ymgihvacsupply.com

Tel: 866-833-3138 • Fax: 866-377-3355 • Email: info@YMGIGroup.com

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