

EVER  CHILL

Rooftop Air Conditioner Controller Manual

All information published in this manual changed will be subject to notice

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First, the Controller Introduction



● Key description

Name.	Mode	Wind speed	Time/clock	Temp Rise	Temp Drop	Switch
Symbol.						

The display icon lights up to turn on and off to turn off.

Second, Display Instructions

1. The initial status

When the controller is powered on, the display displays all characters, waiting 3 seconds before the buzzer rings and automatically enters the regular page.

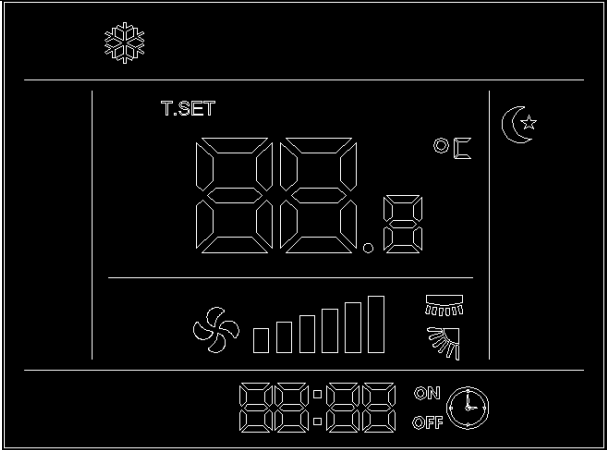
When the controller is powered on for the first time, it enters the clock settings page when it first presses the Mode key, the Mode key, the Wind Speed key, the Wind Speed key, and the Timed key.

After powering on the full screen display 3S at the same time the backlight full light 3S, for the controller factory to detect the liquid crystal and whether the light lamp is missing, the full screen display during the shielding keys and remote control reception processing.

- (1) When the backlight is fully lit, no keystrokes are operated for 20 seconds, and the backlight screen is converted from full light to a semi-bright state. When the backlight is half-bright, the key is in a semi-hibernate state, need to touch any key, the backlight from half-light to full-light, into the key wake-up state
- (2) When the backlight is half-light, 180 seconds without any keystrokes, the backlight screen is converted from half-light to off and into hibernation. Hibernate state backlights are all off. In hibernation, press any key for the first time and the backlight is fully on, but the key does not respond to the action.

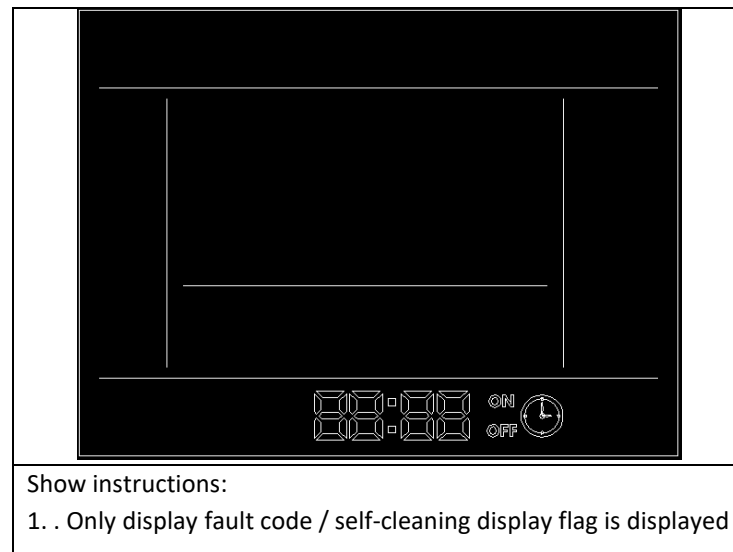
2. Power on

Patterns displayed in the power-on state: set temperature (default display), mode, wind speed, effective function, fault code, time/time;


Show instructions: 1. . If the set temperature is setting, the set point is displayed at a minimum interval of 1.0°C/1.0°F. 2. Current operating mode & wind speed.

3. Shutdown

Displayed in shutdown state: effective function (Child lock), fault code, time/time;



4. The fault shows

The fault code is displayed in the temperature display area in the fault state, with the icon *ERR* displayed above.

If more than one fault occurs at the same time, each fault is displayed in turn, and each fault is displayed in 3s.

The controller displays that the fault code is consistent with the electrical display fault code.

5. Fahrenheit/Celsius (Temp Display)

When the controller is set to the Fahrenheit temperature display, the controller converts the Fahrenheit temperature to Celsius and sends it to the internal machine. Similarly, the indoor machine converts the Fahrenheit temperature to Celsius and sends it to the controller.

When the wire controller receives the temperature sent by the indoor machine

If the setting is displayed as Fahrenheit, convert the Celsius temperature to Fahrenheit and round it.

Third, key description

1. Switch key

The wire controller is powered on for the first time, no power-down memory function, the default shutdown state, LCD screen display shutdown page.

Under the power-on page, press the **"Switch"** key once (lasts greater than 300ms) the unit shuts down, the switch-off page is displayed.

Under the shutdown page, press the **"Switch"** key once (lasts greater than 300ms) the unit is turned on, the switch-on page is displayed.

After pressing and pressing the key power-on 5s, let go; The sequence of controller LCD self-test is as follows: buzzer sound, the following output in 2Hz frequency in turn (LCD from left to right, lit in turn, after the completion of self-test extinguished). After completing the self-test, exit the self-test.

Note: 1. Exit the self-test state after the power is powered off during the self-test operation.

2. During the self-test, all keys are invalid.

2. Mode key

The wire controller is powered on for the first time, the default cooling mode, and the cooling icon is always on.

Under the power-on page, press the Mode key once, the selected mode icon is always on, and the other icons go out.

The wire controller (warm and cold type),the switching order is as follows:

Auto matic .	Refri gerati on.	Dehu midifi catio n.	Send the wind	Heati ng
				

Note:

1,Communication is not successfully connected, the mode icon only in refrigeration, dehumidification, air delivery, heating mode between switching.

2,the communication is successfully connected, the mode icon returns to normal selection.

Under the **【Mode】** power-on page, press and hold the Mode key greater than 5S, enter the function settings page, press the Mode key (greater than 300ms), the selected function icon flashes at 1Hz, and other icons are displayed according to the actual status (if the status is on, the icon is always on; if the status is off, the icon goes out).

3. **【▲】 & 【▼】**

Regulation adjustment:

Under the power-on page, press the " **【▲】** " once, set the temperature value to flash at 1Hz, set the temperature increase by 1degree C /1degree F;

Under the power-on page, press the " **【▼】** " once, set the temperature value to flash at 1Hz, and set the temperature to decrease by 1degree C/1degree F; °C/

Rapid adjustment:

Under the power-on page, press the " **【▲】** " continuously greater than 600ms, set the temperature is always bright, automatically increase by 1 degree C / 1 degree F at 2Hz 1frequency, set the temperature value to flash at 1Hz after the key is released, and the temperature stops 1°C/ automatically increasing.

Under the power-on page, press the key **【▼】** continuously greater than 600ms, set the temperature is always bright, automatically decrease by 1 degree C / 1 degree F at 2Hz 1frequency, set the temperature value to flash at 1Hz, the temperature stops°C/ automatically decreasing.

Adjustment range:

	Degrees Celsius	Degrees Fahrenheit .F
Mode.	Set the range	Set the range
Refrigeration.	16~31	61~88
Dehumidification.	— —	— —
Send the wind	— —	— —
Heating	16~31	61~88

4. Wind Speed key

Under the power-on page, every time you press the Wind Speed key, the selected wind speed icon is always on and the other icons go out.

The display icons for the different wind gears are as follows:

Low wind	
Mid wind.	
High wind	
Automatic.	

Note:

1, According to the parameters,

(1), if set to the three-speed wind setting, the switching order is as follows: low wind – Mid wind - high wind - automatic

2, The controller for the first time on power, the default low wind, low wind icon display.

3, Dehumidification mode, do not respond to the operation of the "wind speed" key, wind speed can not be adjusted, the default low wind, low wind icon is always bright.

5. Timed key

Press the Timed key once (the key continues to be greater than 300ms) to enter the time settings page

Press the Timed key to continue to be greater than 5s and go to the clock settings page

Fourth, the user function

4.1. Child lock mode

The controller is powered on for the first time, the default child lock is invalid, and the icon "  " goes out.

Under the power-on or shutdown page, the icon "  " Goes off, simultaneously pressing the **【▲】&【▼】** and continually greater than 5s, the child lock is valid, the icon "  " lights up.

Under the power-on or shutdown page, the icon "  " is always on, simultaneously pressing the **【▲】&【▼】** and continues to be greater than 5s, the child lock mode is invalid, the icon "  " off.

When the child lock mode is in effect, the key operation is not valid except to close the child lock operation, but the icon "  " flashes 3 times in a row to remind the user of the current child lock status.

4.2. Parameter query / settings

4.2-1 parameter query

In the status of power-on or shutdown, you can enter the query unit parameters;

Key operation and display:

1, Enter the parameter query:

In the power-on or shutdown state, press and hold the key 5S, will enter the parameter query interface, the time zone display parameter code, and the check parameter code flashes.

2, Switch parameter code: At this time, press the key to switch the parameter code.

The parameter queries the entry						
level parameter code			Query the current parameters		The scope of the query	Note.
The parameter code	The area is displayed	The name of the argument	The query value	The area is displayed		
01	Time zone hours	Indoor ambient temperature (C/F)	The current	The temperature	-30~150	When the setting shows the temperature of Celsius, the unit is

			value	display area		Celsius; When the setting shows the temperature of Fahrenheit, the unit is Fahrenheit;
E1	Time zone hours	Historical fault 1	Err +**	The temperature display area		Err1 is an earlier fault,and Err 5 is the most recent fault
E2	Time zone hours	Historical Fault 2	Err +**	The temperature display area		
E3	Time zone hours	Historical Failure 3	Err +**	The temperature display area		
E4	Time zone hours	Historical Fault 4	Err +**	The temperature display area		
E5	Time zone hours	Historical fault 5	Err +**	The temperature display area		

4.2-2, Exit parameter query:

- (1) In the parameter query state, at any time short press the "mode" key, exit the query state;
- (2) In the parameter query state, press the Switch key at any time to exit the query state.
- (3) After entering the parameter query state, no action is taken within 15 seconds, and the parameter query state is exited and returned to the main interface.

4.3 Parameter settings

Only in the shutdown state, into the parameter setting ;

Key operation and display:

1, Enter the parameter settings:

In the power-on or shutdown state, press **【▼】** and hold the "mode" key 5S, will enter the parameter settings interface, the time zone display parameter code, and the set parameter code flashes.

2, Switch parameter code: At this time, press the key to switch the parameter code.

3, Select the parameter code: after switching the parameter code, press the mode key, the parameter code stops flashing, the corresponding parameter value flashes

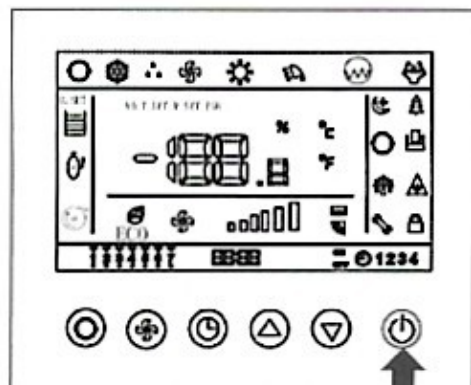
4, Change the parameter value: after selecting the parameter code, press the parameter value size, press the mode key, save and return, the parameter code starts to flash.

The parameter sets the entry						
parameter code			Query the current parameters		The scope of the query	Note.
The parameter code	The area is displayed	The name of the argument	The query value	The area is displayed		
P6	Time zone hours	The temperature unit is converted	F	The temperature display area	C:Celsius temperature; F:Fahrenheit temperature	
PA	Time zone hours	Power on the default display	00	The temperature display area	00:Shows the set temperature 01: Showsthe ambient temperature	

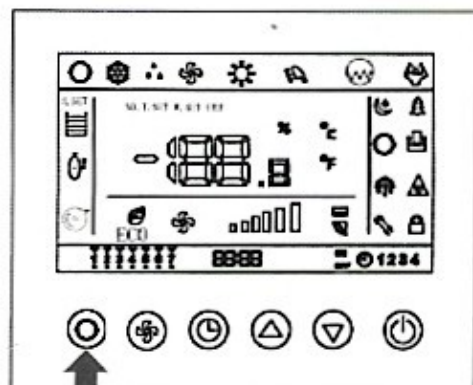
5, Exit parameters set:

- (1) In the parameter setting state, press the “Switch” key at any time, do not save the setting, exit the setting state.
- (2) After entering the parameter settings, no action will be taken within 15 seconds, the setting will not be saved to exit the parameter settings state and return to the main interface.

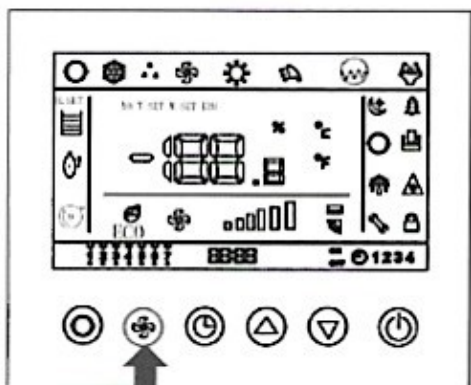
Operation



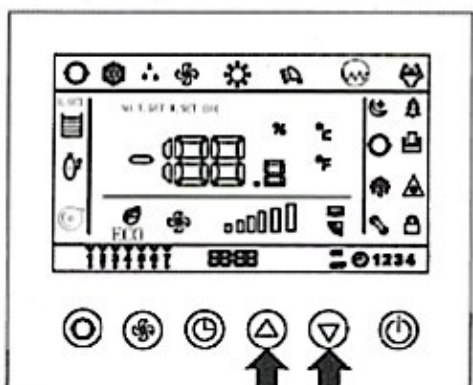
a. Press "ON/OFF" button switch on or switch off the machine



b. Press "●" button select auto, cold, dehumidification, heat



c. Press "🌀" button adjust the high or middle and low speed



d. Press "▲" button increase set temperature point.
Press "▼" button decrease set temperature point.

FAULT CODE & FUNCTION DESCRIPTIONS

Fault condition	Digital display code	Note
Communication interruption of relay control module	E1	Call for service
Room temperature sensor is open or has different range	E2	Call for service
Room temperature sensor fault	E3	Call for service
Communication fault	C5	Call for service

A.To difficult to change from C to F ?

When the air conditioning turned off, long press the [mode] + [▼] 5s to enter the parameter setting interface, the parameter code is displayed in the time zone and the parameter code is flashing. Adjust the key [▼] when the parameter code is P6. When the parameter code is flashing, press the key [▼] to adjust, then press the mode key to save, then turn on to start the machine.