



Owner's Manual

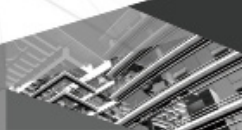
Original Instructions

Wired controller for energy recovery ventilation (ERV) system

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

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

GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI



To Users


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


- (1) This 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.
- (2) All the illustrations and information in the instruction manual are only for reference. In order to make the product better, we will continuously conduct improvement and innovation without further notice.
- (3) For personal injury or property loss and damage caused by improper operation such as improper installation and debugging, unnecessary maintenance, violation of related national laws and rules and industrial standard, and violation of this instruction manual, etc., we will bear no liability.


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Safety notices

 **WARNING:** If not abide strictly, it may cause severe damage to the unit or the people.

 **NOTE:** If not abide strictly, it may cause slight or medium damage to the unit or the people.

 This sign indicates that the operation 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.

- (1) All units should be connected to the same power source.
- (2) The wired controller should not be mounted in humid or high-temperature conditions or the sun's rays.
- (3) Do not hit, hurl or frequently assemble or disassemble the wired controller.

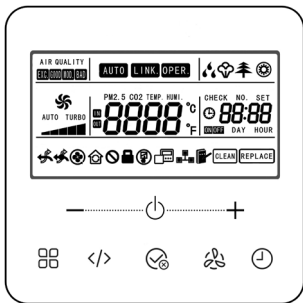
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(4) Do not use the wired controller with a wet hand.

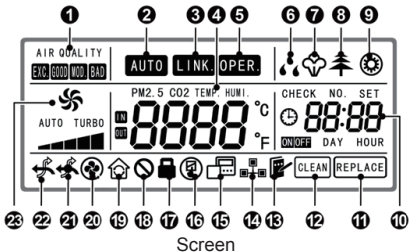
(5) Two controllers that regulate one common unit should have its independent address.

(6) “*” means that a function is optional and this function may not be available for some units.

1 LCD introduction



Front panel



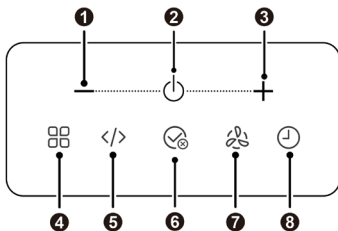
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No.	Display items	Description
1	Indoor air quality*	Four grades: excellent, good, moderate, bad
2	Auto*	Auto mode: when an air quality detector is equipped, the unit can automatically operate in accordance with the target air quality level.
3	Linkage*	Linkage mode: when there is a multi-VRF unit, the ERV will work in sync with the multi-VRF unit.
4	Air quality parameter	Indoor temperature appears or changes.
5	Operation*	Operating mode
6	Dehumidification*	Dehumidifying function
7	Humidification*	Humidifying function
8	Health*	Health function
9	Ancillary heating*	It will display when this function is on.
10	Timer and parameter setting	Timers, parameters appear or change.
11	Replacement	Replacement reminder
12	Cleaning	Cleaning reminder

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No.	Display items	Description
13	Memory	When power failure occurs, The ERV turn- on or turn-off will be memorized upon power restoration.
14	Group control*	Units are in group control.
15	Secondary wired controller	It will display when secondary wired controller is set.
16	Shielding	Remote-controlled shields: the startup and(or) shutdown of the unit, the mode, the timer, etc.
17	Child lock	It is used to prevent misoperation of children.
18	Prohibition	Operation is prohibited.
19	Air circulation*	It will display when this function is on.
20	Air exhaust	It will display when the unit is under the air exhaust state.
21	Total heat exchange	It will display when the unit is under the total heat exchange state or indoor purification mode.
22	By-pass operation*	It will display when the unit is under the by- pass operating state or low-temperature operating state.
23	Fan speed	Display of fan speed

2 Keys introduction

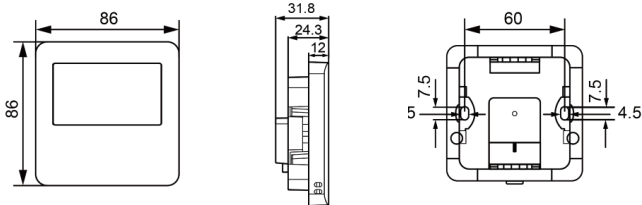


No.	Name of Button	Functions
1	Add	Timer and parameter setting
2	On/Off	Turn-on or turn-off of the unit
3	Subtract	Timer and parameter setting
4	Function	Keep pressing the key to access parameter settings.
5	Mode	Press the key to switch operating modes including heat exchange mode and air exhaust mode.
6	Enter/Cancel	Press the key to confirm or cancel your settings.

No.	Name of Button	Functions
7	Fan speed	Press the key to switch different fan speeds.
8	Timer	Press the key to adjust timers.
1+3	Child Lock	Keep pressing “+” and “-” simultaneously for 5 seconds to enable or disable the child lock.

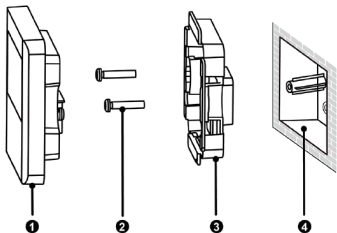
3 Installation and commissioning

Unit: mm



Outline dimensions

Wired controller for energy recovery ventilation (ERV) system

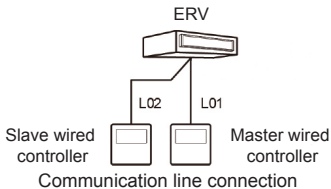


Components

No.	①	②	③	④
Name	Front panel	Screw M4×25	Rear panel	Junction box
Quantity	1	2	1	Field-supplied

3.1 Installation

3.1.1 Communication lines



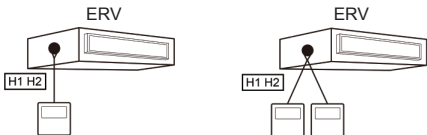
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Type	Total length of communication line between units and wired controllers L (m)	Size (mm ²)	Referenced standard	Remarks
Light/ordinary PVC sheathed twisted-pair copper core line	L≤250	2×0.75- 2×1.25	GB/T5023.5-2008	The total length of communication line can't exceed 250 meters.
Shielded light/ordinary PVC sheathed twisted-pair copper core wire (RVVSP)	L≤250	2×0.75- 2×1.25	GB/T5023.5-2008	If unit is installed in places with intense electromagnetic field or strong interference, it is necessary to use shielded communication lines.

 Notice

- (a) If the ERV is installed in a location involving intense electromagnetic interference or if the communication line is longer than 5 meters, the communication line should be protected by shields.
- (b) You must use communication lines as described in the table above.

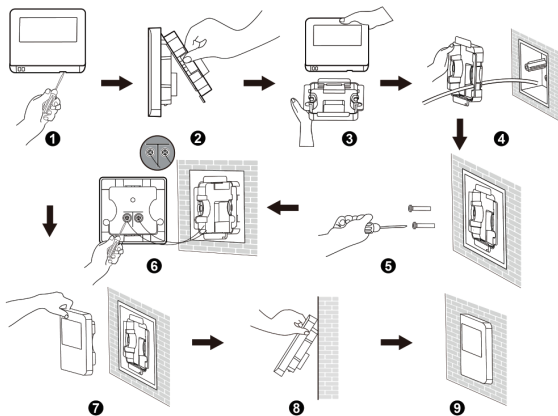
3.1.2 Controller address



One controller for one unit Two controllers for one unit

- (1) Two controllers that regulate one unit have its independent address. One master controller (address: 01) and work with a slave controller (address: 02). A controller address is a factory-only parameter.
- (2) The controller interface is neutral but it cannot carry strong electricity.

3.1.3 Wiring



Mounting steps

The diagrams above are for reference. Follow instructions below to wire up the controller.

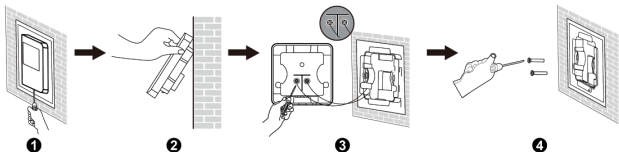
- (1) Disconnect all power electricity before servicing.
- (2) Draw out 2-core twisted-pair lines from the holes of the wall, and run the lines through the wiring holes at the back panel of the controller.
- (3) Fix the rear panel to the wall with screws (M4×25).

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(4) Connect the 2-core twisted-pair lines to the wiring terminals of the controller, and secure them with screws.

(5) Fasten the front panel and the rear panel.

3.1.4 Disassembly




Disassembly steps


Separate the front panel and the rear panel with a slotted screwdriver.

Loosen the screws to remove the lines of the wiring terminals before removing the rear panel.


3.2 Commissioning

Parameters can be adjusted in the turn-on or turn-off state of the unit.

(1) Keep pressing  for 5 seconds to see “C00”, and then hold the key for 5 seconds to access parameter setting to see “P00”.


(2) Press **+** or **-** to switch codes. Press **</>** to adjust parameter values and then see the value to flash. Tap **+** and **-** to change values. Press  to save your settings or exit.




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(3) Press  to return to the previous step, and repeat it until you exit from all parameter settings.

Code	Name	Range/Options	Default	Instruction
P09	Setting of positive and negative pressures	00: Normal speed 01: Positive pressure 02: Negative pressure	00	00: The fresh air speed is equal to the exhaust speed. 01: The fresh air fan motor and exhaust fan motor are automatically switched in accordance with the positive pressure mode. 02: The fresh air fan motor and exhaust fan motor are automatically switched in accordance with the negative pressure mode. Note: This parameter is not available in the air exhaust state.
P14	Quantity setting for one-for-more unit	00: Prohibited 01-16: Quantity of the unit	01	Set a value according to the quantity of units.
P15	Power failure memory	00: Turn off the unit upon power restoration 01: Resume operating upon power restoration	00	—

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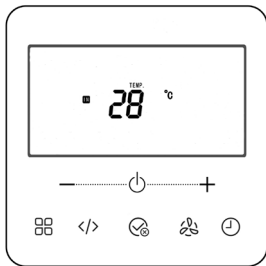
Code	Name	Range/Options	Default	Instruction
P16	Temperature unit conversion	00: Celsius 01: Fahrenheit	00	—
P35	Factory default	00: Invalid 01: Valid	00	After you select 01, keep pressing  for 5 seconds to reset user-only parameters to factory default.

After you access parameter settings,  and  is not available. Press  to return to the home page but the unit will not be turned on or off.

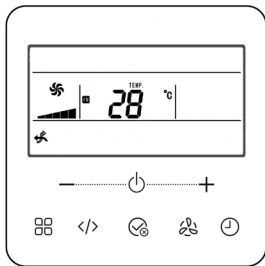
4 Instruction

4.1 On/Off key

Press  to start or stop the unit.



Startup



Shutdown

4.2 Mode setting

After the unit starts working, press \langle / \rangle to switch modes.



4.3 Fan speed

After the unit starts working, press ⌂ to switch fan speeds.



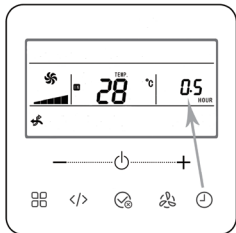
4.4 Timer setting

After the unit starts, shutdown timer is available; after the unit stops, start timer is available. Press ⌂ to see “HOUR” flash, and then tap $+$ or $-$ to adjust the value. Press ⌂ to save it and exit.

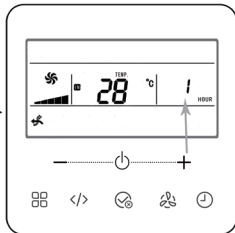
You can stop the timer by press the ⌂ again.

One press of $+$ or $-$ causes a 0.5 hour increase or decrease between 0.5 hour to 24 hours. You can also keep pressing $+$ or $-$ for 0.3 second to adjust the value continually.

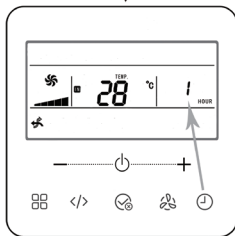
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Press to set a time.



Press + or - to set a timer.




Press to save the value.

Timer setting

4.5 Filter replacement reminder

This function has been on since the unit leaves the factory. The runtime is recorded by the controller. If the unit has worked for 1250 hours, the controller will remind you of replacing a dirty filter to ensure excellent heat exchange effect and avoid abnormal conditions.

When the unit has worked for 1250 hours, "CLEAN" and "REPLACE" will flash on the screen. Keep pressing  for 5 seconds to stop the flashing, and then the controller starts to record the accumulated runtime.


4.6 Remote shielding

Remote monitors can shield some (or all) functions or the availability of keys.

The wired controller can respond to complete shielding and partial shielding. Complete shielding indicates that all functions are invalid. Partial shielding indicates that some designated functions are invalid.

When remote shielding works,  flashes as a signal.

4.7 Child lock

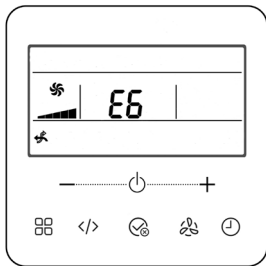
After the unit starts or stops, press **+** and **-** simultaneously for 5 seconds to enable the child lock.  flashes three times to indicate that the function is on. Press **+** and **-** simultaneously for 5 seconds again to disable the child lock.

5 Error code

When errors or faults occur, error codes will appear or be switched from one to another in the temperature display area. Then you need to turn off the unit.

! Notice

Only qualified technicians should service the unit.



Code	Description
L9	Incorrect quantity of units in group control
dF	Temperature sensor error of the wired controller
dH	Electric circuit fault of the wired controller
E6	Communication fault (between the wired controller and the unit)



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