



EVOAQ Heat Transfer Controller



- M** Mode
-  Fan Speed Adjust
-  Power ON/OFF
-  Set Comfort Temperature Up
-  Set Comfort Temperature Down


Please read all instructions before commencing installation

Automated Touch Screen Overview


This digital controller has been designed to ensure highly effective transfer of heated air throughout your home. The large screen is designed for easy and straightforward setup of your heat transfer system, using a high precision built-in sensor with custom sensing algorithm to accurately determine room temperature and improve system stability.

The controller constantly monitors the room and set temperatures. When the heat source provides heat to the room and raises the room temperature above the set temperature, the controller will detect this increase and switch the fan to the desired speed setting. The user can switch between manual speed, or automatic speed, allowing the controller to automatically adjust the fan speed to best make use of the available heat.

Display Information





Off  System is Off. The fan will be switched off and the controller switches to standby mode.

Set Minimum Room Temperature – The controller adjusts the heat transfer rate according to the set temperature. Adjust the set temperature using the Adjust Up ▲ and Down ▼ buttons.

Mode  As a Heat Transfer specific controller, this controller is locked into Heat Transfer mode and cannot be switched to an alternative mode.


Setting Heat Transfer Speed

Adjust the set speed with the Fan Speed Adjust  button. The speed will cycle through the following options:





-  **High speed** - Fan will operate at high speed only. High speed is activated when the room temperature exceeds the set temperature.
-  **Medium ventilation** - Fan will operate at medium speed only.
-  **Low ventilation** - Fan will operate at low speed only.
-  **Auto ventilation** - Controller selects Low, Medium or High speed depending on the difference between the room temperature and your set temperature.

Advanced controller functions

Locking the controller

To lock/unlock the controller press and hold the Adjust Up ▲ and Down ▼ buttons together. The Lock Symbol  appears in the middle-left of the display when locked.

Entering Advanced set-up

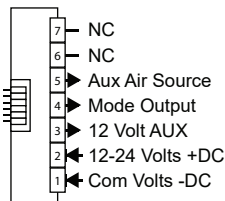
- Turn off your controller with the Power Off  button.
- Press and hold the Fan Speed adjust  button for 5 seconds.
- Switch between set-up screens using the Fan Speed adjust  button.
- Press the Power Off  button to return to the home screen.
- The controller will turn off after 5 seconds of no activity in programming mode.

Advanced set-up screens

1. Temperature calibration: adjust with the Adjust Up and Down buttons
2. Maximum operating temperature (*not used*): default value 25°C
3. Minimum operating temperature (*not used*): default value 20°C
4. Fan type: select between 1-speed, 2-speed, or 3-speed fan
5. Mode lock: switch between Heat Transfer only (*default*), Ventilation only, or Heat Transfer plus Ventilation

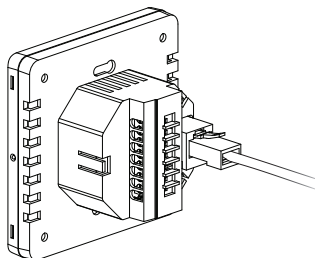
Wiring Diagrams

Fixed Wires



4a

Controller (back)

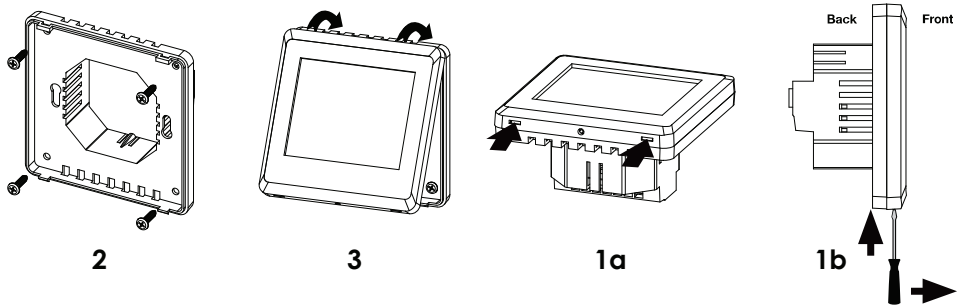


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Mounting Instructions & Installation

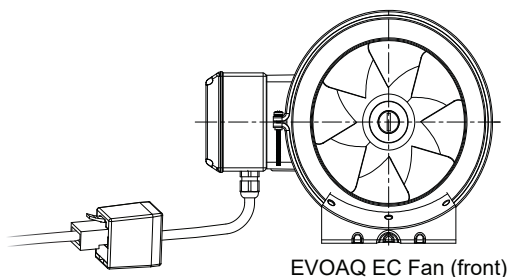
1. Open the thermostat by pushing in the tabs located on the bottom of the unit (*figure 1a and 1b*) and remove the interconnect cable.
2. Choose a mounting position on the wall and cut a 64 mm diameter hole in the wall gip, avoiding any structure timber framing.
3. See **Wiring Diagrams** for connecting to the fan using the provided data cable.
4. After connecting the required wiring, mount the base of the controller with the 4 screws provided (*figure 2*), noting the top direction.
5. Reconnect the interconnect cable to the display front.
6. Replace the cover by locating the two tabs at the top of the unit and lever the touch screen on as shown (*figure 3*). As you close the unit ensure the two plastic tabs at the bottom clip into place.

Note: Do not use excessive force to fit the cover.

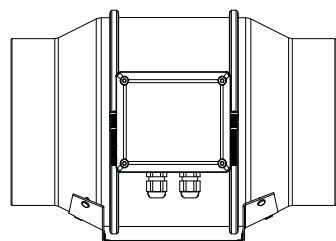


Selecting the mounting location

- The controller is for internal use only.
- Mount approx. 1.5 metres above the floor on an inner wall near the heat source.
- The controller **must** be placed within the same room as the heat source.
- Avoid locations which are not affected by the heat source, e.g. other side of the room or around a corner.
- Do not mount on hot surfaces or surfaces exposed to direct sunlight.



EVOAQ EC Fan (front)



EVOAQ EC Fan (side)

Frequently Asked Questions

Can I place the controller in a different room than the fireplace/heat source?

No. The controller *must* be mounted in the same room as your heat source. Make sure that the controller is in a position where it can easily detect changes in the room temperature from your heat source, e.g. 2-4 metres away from the heat source. Do not place the controller in the hallway or near the doorway, around a corner from the heat source, or far away (>6 metres) from the heat source in a large room.

How far away from the heat source should I place the fan?

You should keep *at least* 1.5 metres of distance between the heat source extraction point and the fan. However, the recommended distance between the extraction point and the fan is 3 metres.

Technical Specifications

Set Temperature Range:	5 - 35°C
Temperature Resolution:	0.5°C
Operating Voltage/Frequency:	230VAC 50Hz
Sensing Element:	NTC thermistor
Operating Temperature:	0 to 40°C
Operating Humidity:	5 - 90% non-condensing
Output Control:	Digital control interface
Display:	3.5" digital LCD Touchscreen
Approval:	All relevant AS/NZS standards
EMC Approval:	All relevant AS/NZS standards

The unit should be checked annually for correct operation.

This controller has been designed to only work with EVOAQ Heat Transfer EC Fans

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