

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 Rate Adjust  button for 5 seconds.
- Switch between set-up screens using the Fan Rate 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 (*default*)
5. Mode lock: switch between Heat Transfer only, Ventilation only, or Heat Transfer plus Ventilation (*default*)

Technical Specifications

Set Temperature Range:	5 - 35°C
Temperature Resolution:	0.5°C
Operating Voltage/Frequency:	12 - 24 Volt DC
Sensing Element:	NTC Thermistor
Operating Temperature:	0 - 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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For further information, please contact EvolutionFX Limited

Email: info@evolutionfx.co.nz

Phone: +64 9 558 5590

INSTALLATION INSTRUCTIONS

EVOAQ Heat Transfer Controller



- M** Mode
-  Heat Transfer Rate 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  Turn system 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 Rate

Adjust the heat transfer rate with the Fan Rate Adjust  button as needed - e.g. if your room gets too warm, select a higher rate. The rate will cycle through the following options:

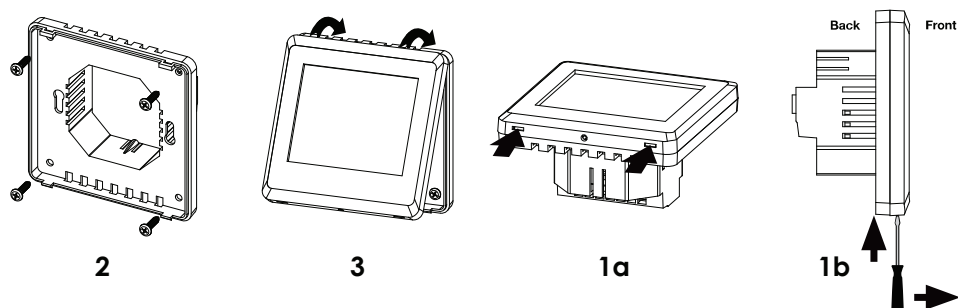
-  **Low rate** - Fan will operate at low speed mode (10 - 60% speed).
-  **Medium rate** - Fan will operate at medium speed mode (20 - 80% speed)
-  **High rate** - Fan will operate at high speed mode (30 - 100% speed).
-  **Auto rate** - Controller selects Low, Medium or High rate depending on the difference between the room temperature and your set temperature.

In Heat Transfer mode, the fan will only operate at the selected speed range if the room temperature exceeds the set temperature.

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 Connection 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.

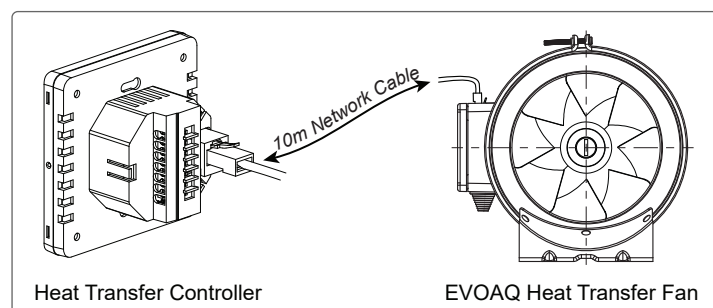
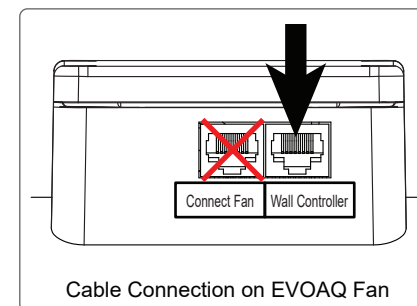
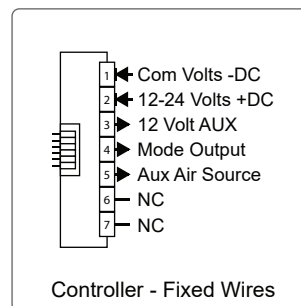
Note: Do not use excessive force to fit the cover.



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 **should** 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.

Connection Diagrams



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.

What set temperature should I select?

Choose the temperature that you would like the heat source room to get to before starting to transfer heat (i.e. removing excess heat from the room) and potentially cooling down the room. When the room is below the set temperature, the fan will only operate at low levels to transfer any remaining heat to the bedrooms without affecting the room temperature.

I turned the controller off. Why does the system keep running?

When turning the controller off the fan enters a shutdown cycle which may take a few minutes before turning off fully.

EVOAQ Heat Transfer Controller



- M** Mode
-  Heat Transfer Rate Adjust
-  Power ON/OFF
-  Set Comfort Temperature Up
-  Set Comfort Temperature Down

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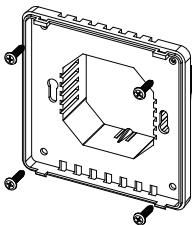
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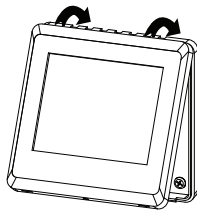
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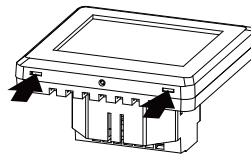
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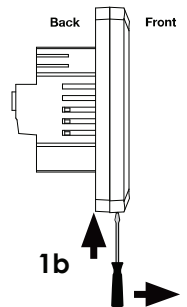
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3



1a

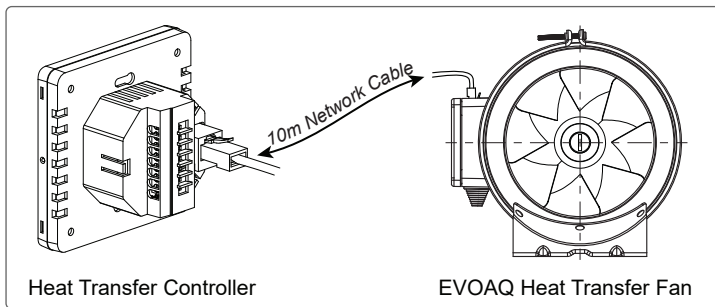
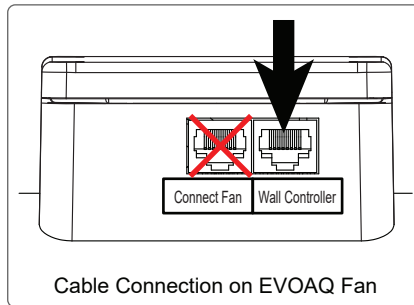
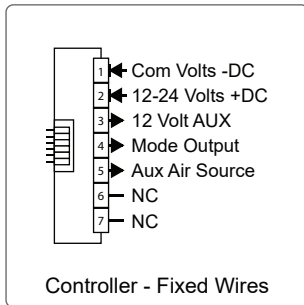


1b

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