EVOAQ Ventilation Controller

M Mode

Ventilation 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 specifically designed to ensure the best possible ventilation for your home. The large screen is designed to measure the indoor air temperature using a high precision built-in sensor.

The digital controller communicates your ventilation requirement to the intelligent fan control board which is constantly sensing the air quality and adjusting the fan speed. By selecting the ventilation requirement this control board will increase/decrease the amount of ventilation to your house. The ventilation requirement is adjusted according to your Set Comfort Temperature.

No further inputs or adjustments are required. **Simply set and forget.**

Display Information

Off System is Off. The system will switch to shutdown mode and stop after several minutes.

Set Comfort Temperature – The controller adjusts the ventilation requirement according to the set temperature. Adjust the set temperature using the Adjust Up ▲ and Down ▼ buttons.

Mode **M** Switch between Summer and Winter mode

- Summer - Heat Transfer OFF / Air is taken from outside
- Winter - Heat Transfer ON / Air is taken from the roof space

NB *Without the respective air source options installed the mode selection has no effect.*

Setting your Ventilation Requirement

Adjust the set ventilation with the Ventilation Rate Adjust button. The setting will cycle through the different options below.

High ventilation - Fan will operate at high speeds across a wider range of temperature to actively work on Air Quality and condensation.

Medium ventilation - Fan will operate optimal airflows *(default)*.

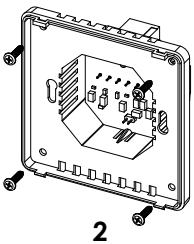
Low ventilation - Fan will provide lower airflows while maintaining air quality.

AUTO **Auto ventilation -** Controller selects Low, Medium or High Ventilation depending on the difference between the room temperature and your comfort 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 gib, avoiding any structure timber framing.
3. Refer to **Connection Diagrams** for connections. Ensure the network cable is plugged into the correct port on the fan as shown below.
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.



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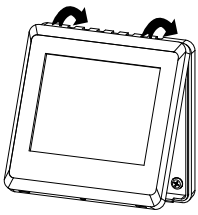

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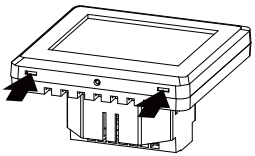
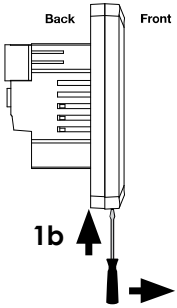


1a

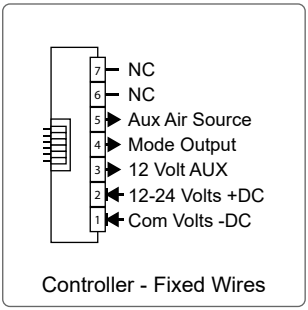


1b

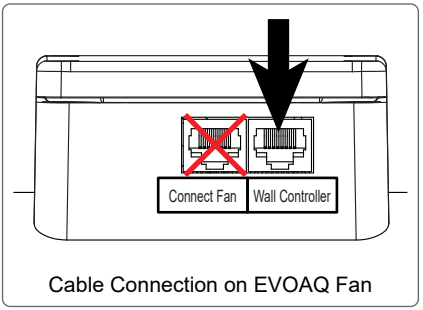
Selecting the mounting location

- The controller is for internal use only.
- Mount approx. 1.5 metres above the floor on an inner wall. Select the wall for ease of wiring to the fan.
- Avoid locations which are not generally affected by changes in the room temperature.
- Do not mount on hot surfaces or surfaces exposed to direct sunlight.
- Do not install in damp or wet areas like the laundry or bathrooms.

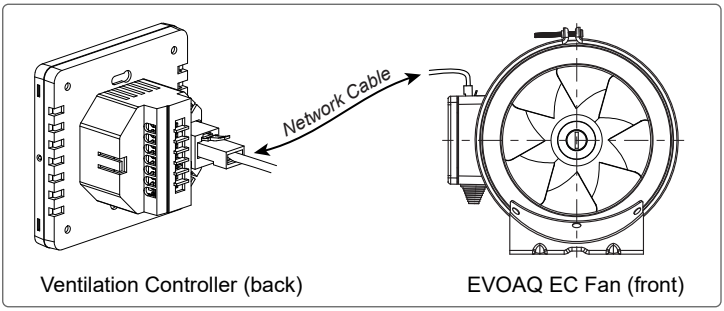
Connection Diagrams



Controller - Fixed Wires



Cable Connection on EVOAQ Fan



Ventilation Controller (back)

EVOAQ EC Fan (front)

Frequently Asked Questions

Which ventilation rate should I choose?

- **Low ventilation** is suitable for low occupancy numbers in the house and/or when total ventilation requirements may be substituted with opening windows and doors (e.g. during summer time).
- **Medium Ventilation** (default) provides the ideal ventilation requirements for an average, well-insulated home.
- **High Ventilation** is suitable when there is a higher occupancy in the home or signs of poor air quality due to increased moisture levels in the house (e.g. condensation).
- **Auto mode** maintains the requirements of the three rates based on temperature in the home. As well as providing the correct levels of ventilation, the system also tries to normalise the indoor air temperature to the target comfort level set by the user.

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 up to a minute to turn off fully.

Advanced controller functions

Locking the controller

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

To calibrate your controller's room temperature you need to enter the programming mode

- Turn off your controller with the Power Off button.
- Press and hold the Ventilation rate adjust button for 5 seconds.
- Release the button when the screen turns on.

The temperature calibration value is shown in the middle of the display. Adjust the calibration value using the Adjust Up ▲ and Down ▼ buttons.

- 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.

The calibration value is added or subtracted (if negative) to the room temperature.

Example: *The room temperature is 22°C and the controller displays 20°C. The current calibration value is -1°C → change the calibration value to 1°C.*

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 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 and the filter changed at least every 24 months.

This controller has been designed to only work with EVOVX Ventilation System EC Fans