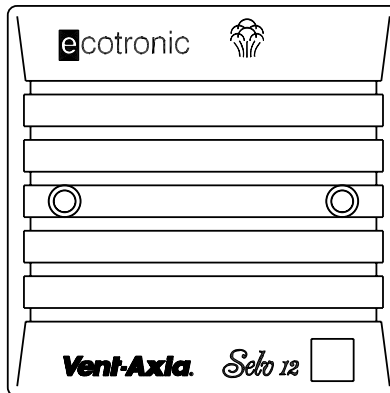


Vent-Axia®

ECOTRONIC SELV 12V Humidity Controller

FITTING AND WIRING INSTRUCTIONS

Suitable for use with a single Vent-Axia SELV 12 fan up to 5.6A,
eg. Solo SVH, VA100SVL 12, VA100SVX 12, LuminAir™ H.



CE

Stock Ref:- 56 35 31A

**PLEASE READ ALL INSTRUCTIONS
CAREFULLY BEFORE INSTALLATION
AND LEAVE WITH THE END USER**

VENT-AXIA ECOTRONIC SELV 12V FITTING AND WIRING INSTRUCTIONS

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OPERATION

The Ecotronic humidity controller has been designed for maximum versatility. It has a single pole relay with two change-over contacts. The relay is energized either by manual override, or in automatic mode when the room Relative Humidity (RH) reaches the set-point. The relay remains energized until the room RH falls below the set-point. The RH set-point is adjustable.

The integral pullcord switches between automatic humidity control and manual override. The Ecotronic indicator lights when the fan is in manual override. The indicator will **NOT** light under automatic humidity control, even if the relay is energized. There is no permanent **OFF** position.

NOTE: On installation it is possible that the humidity controller will run continuously until it has acclimatized to the environment.

SITING

IMPORTANT: The mains transformer controller supplied with the fan must be sited out of reach of a person using a fixed bath or shower. It provides 12V AC Safety Extra Low Voltage (SELV) to the Ecotronic controller, which in turn supplies the fan with 12V AC SELV. This means that the Ecotronic and the fan may be installed within reach of a person using a fixed bath or shower. However, the Ecotronic and fan must not be placed where they could be submerged in water or regularly exposed to direct water spray, E.g. from a shower head whether permanently fixed or movable.


Ambient temperature range: 0 to 40°C. Site away from direct sources of heat. Do not site above a radiator or other heat source. Do not site in an area containing excessive levels of grease. Do not place in direct sunlight as this may affect the sensor.

The Ecotronic should ideally be mounted away from the fan on an inside wall between the major moisture source and the door to the other rooms of the building. The Ecotronic needs free air circulation and should be sited where the pullcord can be operated easily. Do not site closer than 100mm to the ceiling, cupboards, etc.

FITTING

The Ecotronic is designed to fit any **non-metallic** UK single mounting box with a minimum depth of 20mm. Fixing centres 60.3mm. A surface mounting box is available (Vent-Axia Ref. 410020). Do NOT use a metallic mounting box.

WIRING

WARNING: The Ecotronic MUST NOT be earthed. It is Class III SELV 

The Ecotronic **MUST** be connected to a 12V 50Hz AC SELV supply. It provides 12V 50Hz AC SELV for a Vent-Axia SELV 12 range fan.

DO NOT connect more than one fan to the Ecotronic. The maximum load is 5.6A (Inductive or Resistive). Only connect together products from the Vent-Axia SELV 12 range as they are specially designed to work on 12V AC and are not compatible with mains voltage.

All electrical connections should be made by a properly qualified electrician. The siting and installation **MUST** comply with the current I.E.E. Regulations (BS7671 UK) or the appropriate standards in your country.

Note: Ecotronic does not need a lamp connected in the input or output circuit. If a lamp is used please note that for reliable operation we recommend a tungsten filament lamp. The manufacturers of some fluorescent and low energy lighting systems indicate that these can interfere with some electronic controller circuits.

Wiring to the mains transformer controller should be via a switched spur with a 3A fuse (UK). The installation **MUST** be provided with a double pole isolator switch with a contact separation of at least 3mm. The switch should be located outside the room if it contains a fixed bath or shower, or in accordance with mandatory wiring and safety regulations.

The SELV wiring **MUST** be with mains voltage rated non-metallic sheathed cable. The SELV wiring should be physically separated and insulated from any mains supply or other cabling. Cut the outer sheathing back as little as possible so that the insulating sheath almost reaches the terminal block. 1.5 mm² wire is recommended for a total cable length up to 2.5m at 5.6A.

When using surface wiring that is not contained in conduit, the cables must be securely clipped to the mounting surface, close to the controller.

WARNING: For your safety please ensure that the mains supply is isolated before making electrical connections.

Electrical connections depend on the model of fan and the required mode of operation, see the fan leaflet for connection details. Figure 1 shows an example of wiring connections.

Double check the wiring making sure all connections are secure. Fit the Ecotronic to the mounting box with the two screws provided. Do not over-tighten the screws. Do not trap any wires or the pullcord string when fitting the two pieces together. Switch the mains supply on and check operation.

HUMIDITY SET-POINT ADJUSTMENT BEFORE ADJUSTING THE CONTROLLER, SWITCH OFF THE MAINS SUPPLY.

Unscrew the screws holding the Ecotronic to the mounting box whilst supporting the Ecotronic and wiring. Tilt it to expose the adjuster shaft which has RH% marked nearby on the label.

The Ecotronic is factory set to switch on at about 72%RH.

TO LOWER the set-point turn the adjuster shaft **CLOCKWISE**. This makes the Ecotronic **MORE** sensitive to RH%, i.e. it will come on at a lower RH%.

TO RAISE the set-point turn the adjuster shaft **ANTI-CLOCKWISE**. This makes the Ecotronic **LESS** sensitive to RH%, i.e. it will come on at a higher RH%.

Check all the connections and carefully refit the Ecotronic. Switch the mains supply back ON and check operation.

All regulations and requirements MUST be strictly followed to prevent hazards to life and property both during and after installation, and during any subsequent servicing and maintenance.

