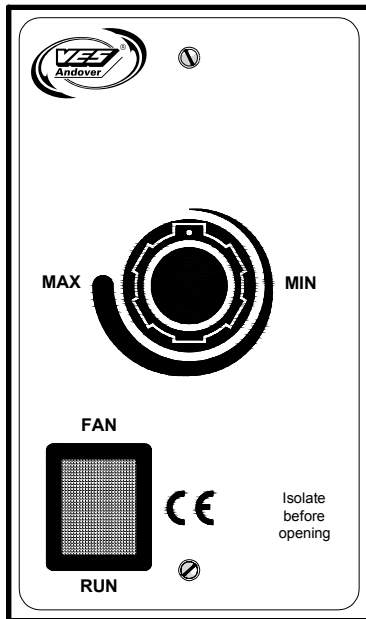




VS6E & VS2E Fan Speed Control

Installation and Commissioning Instructions

External view of front panel



Wiring diagram - internal view

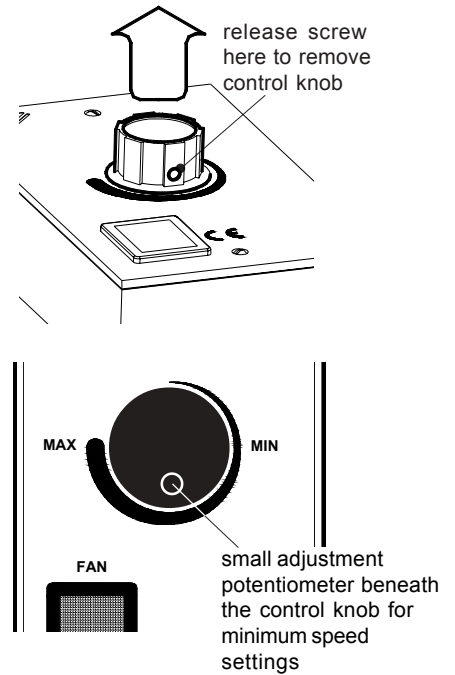
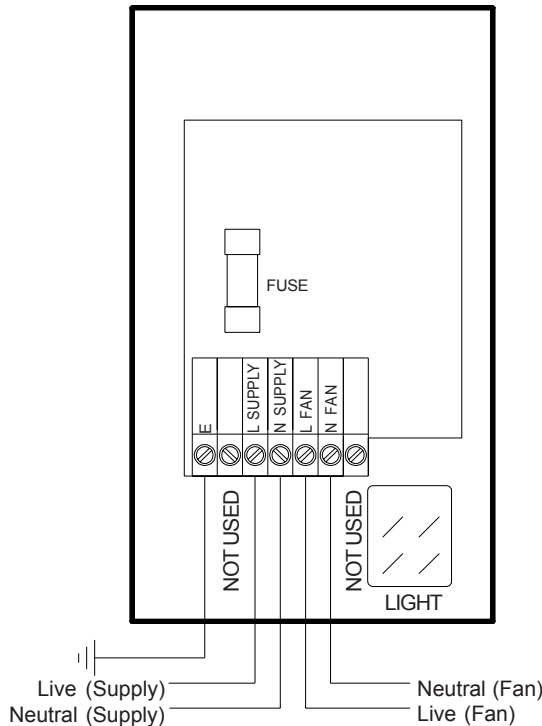


Fig.1 minimum speed adjustment

Specification

The VS6E and VS2E controllers provide manual speed control of certain shaded pole and permanent capacitor electric motors and must be used with a fan and electric heater.

Panel Dimensions: 150mm(h) x 90mm(w) x 55mm(d)

Maximum ambient temperature 30°C

Input voltage 230 VAC + 10% 50Hz.

Maximum fuse VS6E - T6.3A or VS2E - T3.15A (5x20mm)

Maximum temperature on any mounting surface 35°C

Output voltage 0 - 230 VAC 50Hz.

Note: This controller has no fan switch and must be isolated at the control panel.

Hard Start

This feature provides maximum voltage for a few seconds at start-up to overcome friction etc. when starting at low speed settings.

Fuse

This is provided for protection of the circuit board

Rating: T6.3A - VS6E or T3.15A - VS2E

Installation

All installations must be carried out to ensure compliance with the Health and Safety at Work Act and all other applicable regulations.

The controller must only be fitted in a safe position where it is not in contact with any moisture, chemicals or solvents. Firmly secure the base of the controller to a suitable surface. Use only the base supplied as other types will compromise the integrity of the controller.

Separate plug from socket on PCB, wire plug as directed, ensuring correct connections are made for mains supply and fan. Fix cable clamps where necessary.

Plug terminal block into socket on controller front plate.

Carry out electrical safety tests for earth continuity to front plate.

Fit front plate to base. Check that fan is correctly installed and that the local isolator is on. Set the control to minimum. Turn the supply on. The fan should run at full speed for about 5 seconds, it will then slow down to minimum speed which should be no lower than 40% of full speed. If necessary the minimum speed can be adjusted by the small adjustment potentiometer which is beneath the control knob, see fig.1. Once this is complete, adjusting the main control knob should vary the fan speed.

Ensure the end user is aware of the correct usage of the fan, and that the fan will run at full speed when first switched on and then revert to controlled speed.

It is normal for the front panel to become warm in use.

This unit complies with EN61000-6-3:2001, EN61000-6-4: 2001.

When enquiring after or ordering spares contact VES Spares Department, quoting the sales order (SO) number and unit type as found on the unit nameplate.

Telephone 08702 40 43 40
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PLEASE ENSURE THAT THIS DOCUMENT IS PASSED ON TO THE END USER.

We reserve the right to alter the specification without notice