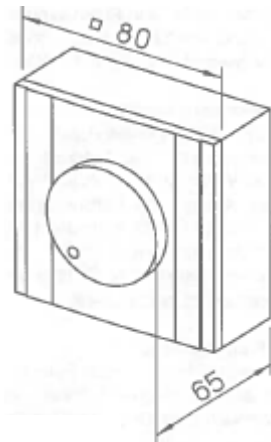




QuietAir QT150VS Speed Controller
Instructions and Operating Guide



For : 90000514

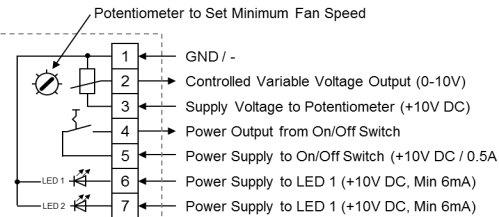


Suitable for surface or recessed mounting .



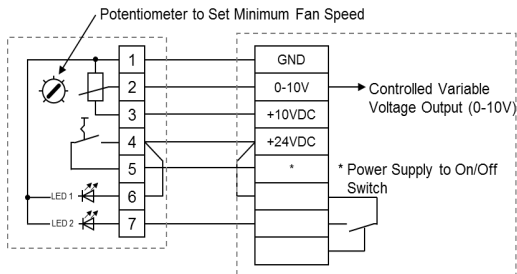
Electrical Installation

Wiring Diagram 1—Speed Controller



LED Display Logic				
LED 1 (6)	10V	10V/24V	0V	0V
LED 2 (7)	0V	10V/24V	10V/24V	0V
Colour	Red	Green	Not Lit	Not Lit

Wiring Diagram 2—Speed Controller & Fan



Continued from page 4.

When disc glows red, this indicates the controller and fan are live but the fan is not running.—system is in standby. When the disc glows green this indicates the controller is live and the fan is running. (Also refer to Wiring Diagram 1—Speed Controller, LED Display Logic).

Recommended Cable Size

It is recommended that a 7 x 0.5mm2 cable be used to connect this controller to the Airflow Developments Ltd. QuietAir QT150VS fan.

Maximum cable length 30Mtr.

Cables over 20Mtr long should be shielded and one end of the shielding to the earth on the fan.

Note: Mains cable laid in close proximity to the low voltage DC. Control cables may create signal

Application

The QuietAir has QT150VS speed controller(Part No: 90000514) have a 0 to10V DC. potentiometer adjusted speed control. Also as standard is a built in minimum fan speed facility. The rotary speed control knob acts as a fan standby and on switch, with LED back lighting giving clear indication of the switch

Electrical Safety

All electrical supplies used to power the QuietAir QT150VS fan and controller should be isolated before carrying out any service or installation work.

All electrical installation work to be carried out by a qualified electrician. Compliance with the relevant Building Regulations / Standards as well as the current edition of BS7671 (IET Wiring Regulations). Installation and operating instructions for the fan must

Fan Speed Controlling

The round knob on the controller front is connected to a potentiometer. This is used to control a 0-10V DC. output from the fan. The controlled voltage is then returned to the fan, giving smooth fan speed control.

Warranty

Applicable to units installed and used in the United Kingdom. Airflow Developments Ltd guarantees the Quiet Air QT150VS Speed Controller for 3 years from date of purchase against faulty material or workmanship. Warranty only covers the Speed Controller, not the reinstallation of this if required. In the event of any defective parts being found, Airflow Developments Ltd reserve the right to repair or at our discretion replace without charge provided that the unit: 1. Has been installed and used in accordance with the fitting and wiring instructions supplied with each unit. 2. Has not been connected to an unsuitable electrical supply. 3. Has not been subjected to misuse, neglect or damage. 4. Has not been modified or repaired by any person not authorised by Airflow Developments Ltd 5. Has been installed in accordance with latest Building Regulations and BS7671 wiring regulations by a recognised competent installer. Airflow Developments Ltd shall not be liable for any loss, injury or other consequential damage, in the event of a failure of the equipment or arising from, or in connection with, the equipment excepting only that nothing in this condition shall be construed as to exclude or restrict liability for negligence. **This warranty does not in any way affect any statutory or other consumer rights.**

Minimum Fan Speed Facility

Incorporated in the controller is a potentiometer to set a minimum fan speed. This will regulate the return voltage to the fan. The minimum voltage range using this facility can be adjusted between approximately 1.3V DC. And 6.7VDC.

Standby and On Switching

The round knob on the controller front is also used as a fan standby and on switch. Press and release the knob to switch fan on. By pressing and releasing the knob again will put the fan into standby mode. The 24V DC power input to the switch from the fan must be connected to get the controllers full functionality.

NOTE: The above switch operations do not isolate it or the fan from mains supply or DC voltages.

LED Back Lighting

Behind the round knob on the controller front is a LED illuminated clear plastic disc. This disc is illuminated from behind by two LED lights. Continued on page 6.



Disposal

Do not dispose of with household waste. Please recycle where facilities exist. Check with your local authority for recycling advice.

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