

Installation Instructions for the AVX 100 Range 100mm (4") Auto Shutter Extractor Fans

- Note:**
- (i) For the best results this extractor fan should be fitted as high on the wall as possible, or if preferred, on the ceiling.
 - (ii) Do not install the unit within a shower cubicle. Use our shower fan model No's AVX100IDS/AVX100 IDT.
 - (iii) Switch off mains supply before making electrical connections. If in any doubt contact a qualified electrician.
 - (iv) This fan is double insulated and does not require an earth.
 - (v) When installing through an external wall an external wall grille must be fitted at all times.

- 1 Using the template provided, cut a 112mm (4½") [minimum diameter] hole in the wall. If the fan is to be fixed in the ceiling ensure that the hole is between the joists. (2.2m from the floor when wall mounted, window mounted cut 115mm dia. hole in glass).
- 2 Fit 100mm (4") [internal diameter] ducting flush to the plaster.
- 3 Remove the cover from the fan by removing the two small screw caps on the front cover and remove the two retaining Philips screws.
- 4 Hold the body of the fan against the wall or ceiling and mark the four screw holes and the cable entry.

IMPORTANT: Ensure that the fan is square on the wall or ceiling.

- 5 Bring power cable into position, as marked. Allow an extra 230mm (9") protruding to facilitate connection.
- 6 Make good around the duct and cable.
- 7 Drill holes to suit No. 8 x 1¼" screws and insert wall plugs.
- 8 Screw the fan and connect power supply to terminals as shown in diagram 3-8
- 9 Make good the external wall and fit cowl or grille over duct.

ELECTRONIC AUTOMATIC BACKDRAUGHT SHUTTERS

The AVX 100 Range of automatic fans are fitted with an internal back-draft shutter system. The flaps of the backdraft shutter are operated by

The logo for ADDVENT, featuring the word "ADDVENT" in a bold, sans-serif font. The "A" is stylized with a diagonal line through it. The letters are blue with a grey shadow effect.

an electronic thermo actuator when the fan is switched on the flaps take 30-60 seconds to open and close when the fan is switched off.

10 Wiring of Standard Model AVX 100 SAN *See Diagram 3*

The fan can either be operated from a separate pullcord switch fitted to the ceiling of the room or can be connected to the light switch so that the fan will start when the light is switched on. A double pole fused spur having a contact separation of at least 3mm in all poles must be used and fitted with a 3amp fuse, and must be sited outside any room containing a shower or fixed bath. The fan must not be accessible to a person using either the shower or the bath.

11 Wiring of Pullcord Model AVX 100 PAN *See Diagram 4*

This model is not suitable for ceiling mounting

This fan has its own integral pullcord on/off switch. The cable from the fan must be connected to a double pole fused spur having a contact separation of at least 3mm in all poles must be used and fitted with a 3amp fuse, and must be sited outside any room containing a shower or fixed bath. The fan must not be accessible to a person using either the shower or the bath.

12 Wiring of Timer Model AVX 100 TAN *See Diagram 5*

Fitted with an electronic timer delay run.

The fan can either be operated from a separate pullcord switch fitted to the ceiling of the room or can be connected to the light switch so that the fan will start when the light is switched on. A double pole fused spur having a contact separation of at least 3mm in all poles must be used and fitted with a 3amp fuse, and must be sited outside any room containing a shower or fixed bath. The fan must not be accessible to a person using either the shower or the bath.

13 Wiring of Humidity Model AVX 100 HAN *See Diagram 6*

For the fan to operate as a normal time delay unit with humidity override i.e. when connected with a switched live coming from the light switch into the fan, the fan will operate when the light is switched on, and switch off after about 1-20 mins (timer is pre-set). However, should the humidity in the room rise above a pre-set level, the fan will switch on and keep running until the humidity level falls to 5% below the pre-set level. In some cases, in a new house for example, the Fan will continue to run for extended periods, as humidity will be high.

It is, therefore, advisable that in normal situations the fan is pre-set between 70% and 80% RH. In exceptional circumstances e.g. dry humid days in the Summer, the fan may well switch on at 80%. This is not unusual and a higher setting may be preferable. This can be adjusted by turning the adjuster knob as indicated.

14 Wiring of Humidity Timer Model AVX 100 HTAN

See Diagram 7

This fan requires a switched live, a permanent live and a neutral supply. This fan will operate as the AVX 100 HAN unit except when the fan unit has been switched off from the remote switch, the timer circuit inside the fan will keep running for the pre-set period of time (adjustable from 30 seconds to 20 minutes).

However should the humidity be higher than the pre-set level the fan will continue to run until the humidity falls 5% below the pre-set level.

In some cases, in a new house for example, the fan will continue to run for extended periods, as the humidity will be high.

15 Wiring of Pullcord Window Model AVX 100 WPAN

see Diagram 8

TIMER ADJUSTMENT

A fan with a delay fitted will run approximately one minute after it has been switched off. The time delay can be increased by firstly switching off the power to the fan, remove the front cover and the inner timer cover. Insert a small screwdriver into the slot, as shown in *Diagram 1*. Turning clockwise reduces the time and turning anticlockwise increases the time. Only adjust with the power switched off.

Note: All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm² in section. All wiring must comply with current IEE Regulations.

IMPORTANT: Switch off mains before making any electrical connections. If in any doubt contact a qualified electrician.



Note: Fan must be fitted a minimum of 1.8 metres from the floor.

Diagram 1

Adjuster details viewed from below

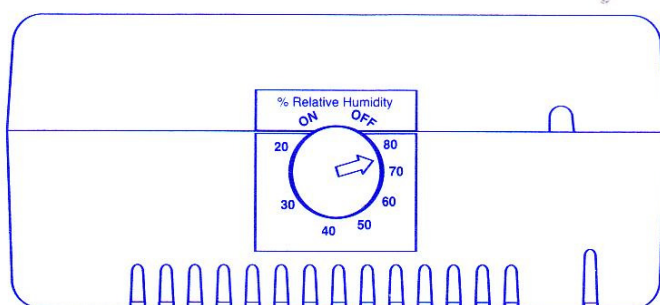
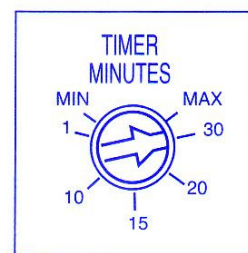


Diagram 2

Time Adjuster



Detailed View

Diagram 3

Wiring of Standard Model AVX 100 SAN

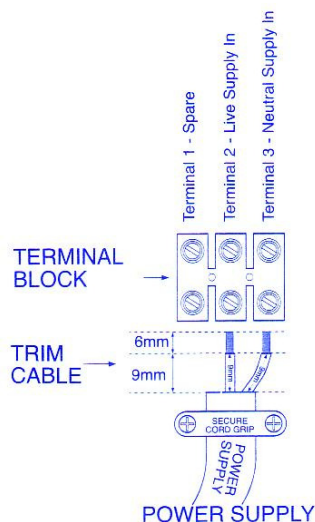


Diagram 4

Wiring of Pullcord Model AVX 100 PAN

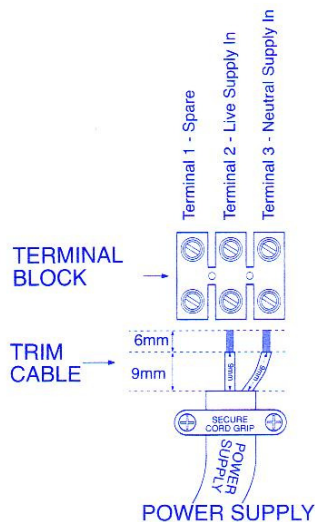


Diagram 5

Wiring of Timer Model AVX 100 TAN

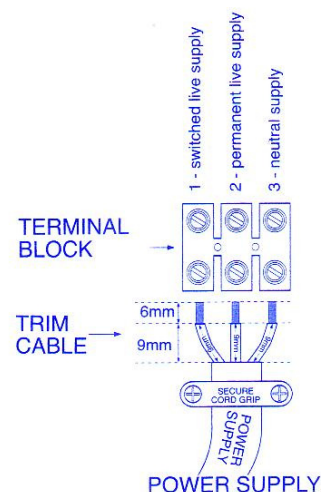


Diagram 6

Wiring of Humidity Model AVX 100 HAN

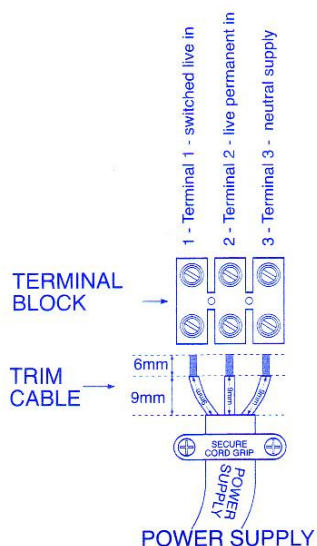


Diagram 7

Wiring of Humidity Timer Model AVX 100 HTAN

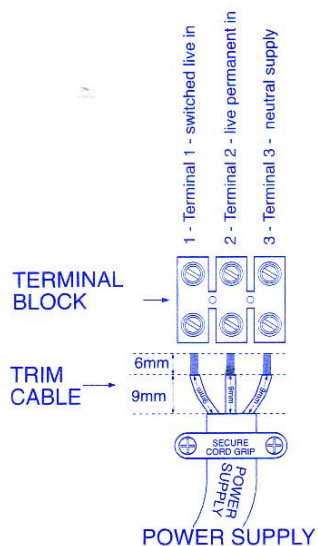
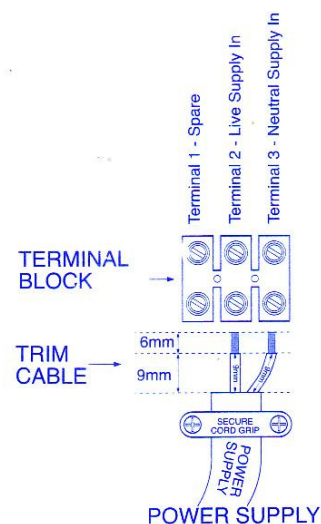


Diagram 8

Wiring of Pullcord Window Model AVX 100 WPAN



ADDVENT

Telephone: **0117 9386400** Fax: **0117 9386401**

Victoria Road Avonmouth Bristol BS11 9DB