

# Installation Instructions for the AVX 100/4"FFS/T/HT 120/5"FFS/T/HT, 150/6"FFS/T/HT Flush Fit Extractor Fans

- Note:**
- (i) For 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 fans.
  - (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 fan through an external wall, an external wall grille must be fitted at all times.

**1** Cut a suitable diameter hole in the wall. If the fan is to be fixed in the ceiling ensure that the hole is between the joists.

**N.B. Fan to be fitted minimum 1.8 metres from floor.**

**2** Hole recommended sizes for wall & ceiling fixing:- 100 FFS/T&HT = 115mm, 120 FFS/T&HT = 140mm, 150 FFS/T&HT = 173mm (with or without board fixing clips)

**3** Remove the cover from the fan by removing the small screw cap on the front cover and remove the retaining Philips screw.

**4** Hold the body of the fan against the wall or ceiling and mark the four screw holes and the cable entry on the side. (Use the fixing clips to secure the fan in panel walls & ceilings). See diagram X1A

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

**5** Bring power cable into position, as marked. Allow an extra 230mm (9") protruding to facilitate connection.

**6 Wiring of Standard Model. See Diagram 1.**

Remove the internal cover by removing the 2 small caps and retaining Philips screws to access the terminal connections.

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 should be sited outside any room containing a shower or fixed bath. The fan should not be accessible to a person using either the shower or the bath.

**Note:** All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm<sup>2</sup> in section. All wiring must comply with current IEE Regulations. If in any doubt contact a qualified electrician.

# ADDVENT


## 7 Wiring of Timer Model. See Diagram 2.

Remove the internal cover by removing the 2 small caps and retaining philips screws to access the terminal connections.

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 3 amp fuse, and should be sited outside any room containing a shower or fixed bath. The fan should not be accessible to a person using either the shower or the bath.


**Note:** All wiring must be fixed securely and the cable to the fan should be a minimum of 1mm<sup>2</sup> in section. All wiring must comply with current IEE Regulations. If in any doubt contact a qualified electrician.

### Timer Adjustment

The Timer fan will run approximately one minute after it has been switched off. This time delay can be increased by firstly switching off the power to the fan. Remove the cover and the timer cover as detailed in Diagram 2A. Insert a small screwdriver into the slot, marked  in Diagram 2A, and turn clockwise to reduce the time and anti-clockwise to increase the time. Only adjust with power switched off.

The minimum time the timer will run for is 20 seconds and the maximum is about 20 minutes.

**NB** Timer delay is adjustable as indicated on the timer strip cover.

100 FFS, T & HT, I20 FFS, T & HT. Max 40°C Rated 220-240V ~50Hz 20W 

IP24 I50 FFS, T & HT. Max 40°C Rated 220-240V

~50Hz 25W  IP24

## 8. Electrical Connections: Electronic Humidity Model (Diagram 3)

For the fan to operate as a normal time delay unit with humidity over-ride 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 20 seconds to 20 minutes (timer is pre-set for the minimum). However should the humidity in the room reach about 75%, which will happen if the shower is run or the bath filled with hot water, the fan will switch on and keep running until the humidity has been reduced to a normal level, about 65%. Connect to electrical supply as shown in diagram 3.



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

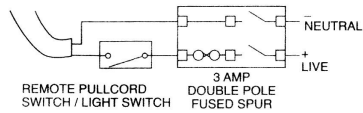
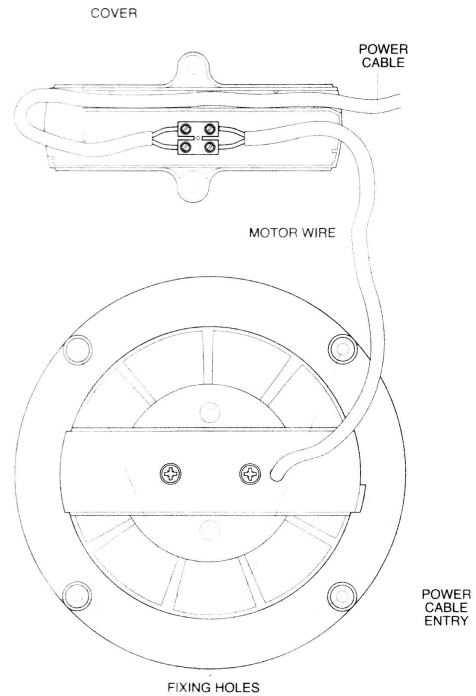
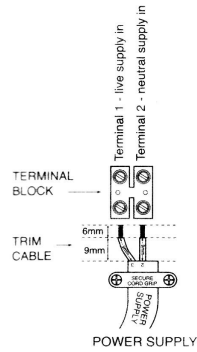
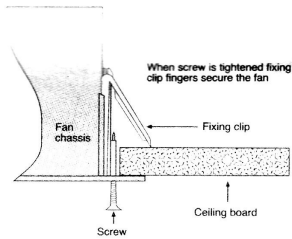
The appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance.

Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.

# Diagram I

Standard Model.  
Top View, after removal of cover.

## DIAGRAM X1A SIDE VIEW



## HUMIDITY OPERATED TIME DELAY CONTROL

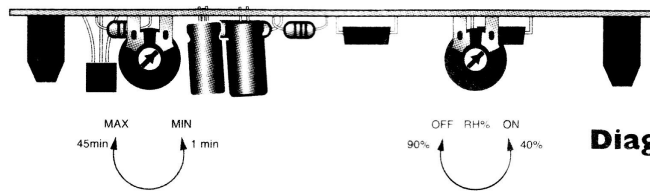
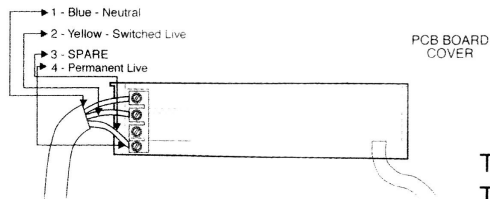


Diagram 3

The timer and humidity adjustments are as the normal instructions



Time Delay & humidity  
over-ride operation

Terminal 1 - 1 Neutral Supply

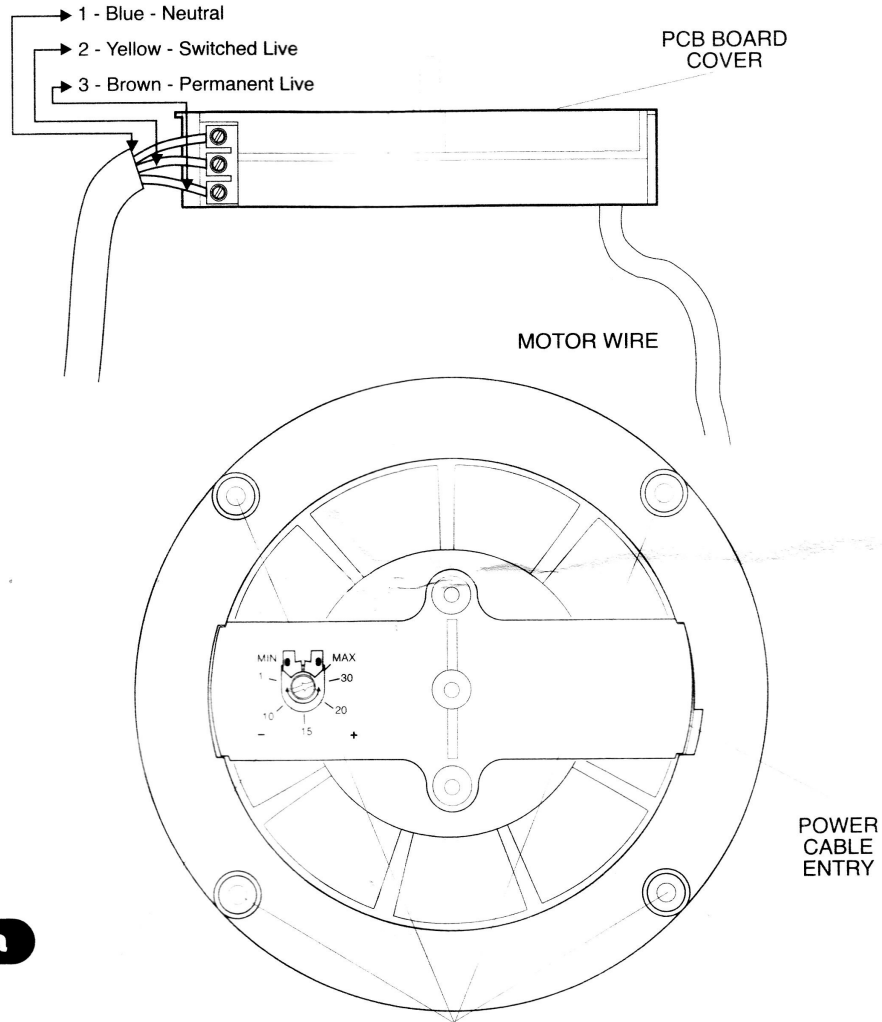
Terminal 2 - 2 Switch live Supply

Terminal 3 - 3 Spare

Terminal 4 - 4 Permant supply

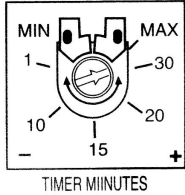
**Diagram 2**

**Timer Model.**  
**Top View, after removal of cover.**

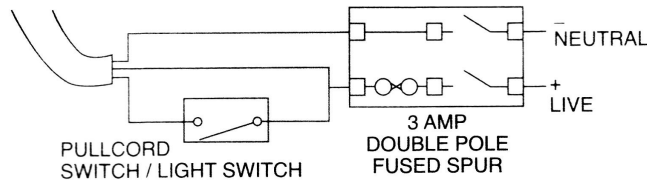



**Diagram 2a**

**DETAILED VIEW**  
Only adjust with power switched off



**FIXING HOLES**



 Please dispose of used fan at your local civic amenity site.  
Do not dispose in domestic waste.

**ADDVENT**

Telephone: **0117 923 5375** Fax: **0117 923 5374**  
Island Park Bristow Broadway Bristol Avonmouth BS11 9FB

# CONDENSATION CONTROL IN HOMES

## IMPORTANT NOTES FOR HOUSEHOLDERS

A THERMOSTAT CONTROLS A REFRIGERATOR

A ROOM THERMOSTAT CONTROLS CENTRAL HEATING

A THERMOSTAT CONTROLS AN OVEN

Now a HUMIDISTAT automatically controls an extract fan to alleviate the problems of condensation, i.e: excess moisture, mould growth, dampness, peeling wallpaper etc.

The Humidity Controlled fan systems permit homes to be ventilated automatically whether you are home or not. Security is maintained as no window need be left open.

1. In your kitchen and bathroom you may have a humidity controlled fan system. This is an extract fan controlled by an electric humidistat.
2. Air contains unseen water and the humidistat constantly checks how much. At a pre-set level the humidistat will automatically switch on the fan to extract the unwanted air borne water. It will automatically switch off when it has vented the moisture.
3. Most water is produced in the kitchen and bathroom and your humidity controlled fan systems will be installed there.
4. You will see the fan come on when you wash up, cook, bathe, wash clothes etc. Neither the humidistat nor the fan require you to operate them to work, they control themselves automatically, 24 hours a day, all the year round.
5. Your humidity controlled extract fans have been installed to alleviate condensation, excess moisture on walls, windows etc. To vent the moisture the fans must operate. The fan will operate when moisture is detected which if not vented could result in unpleasant condensation.
6. Typically your fan will operate for no more than three hours a day. However, if your home (or a new house has not dried out) the fan can run continuously for up to two weeks after installation until the Relative Humidity is reduced. Also at certain times of the year (hot sticky wet days) the Relative Humidity of the air outdoors can rise above 65%. This may cause the fan to run for an extended period of time. Whilst this extended running may be a nuisance, it is vital so that it can maintain the minimum possible level of humidity in the home.
7. Your humidity controlled fan may be connected to an over-ride switch. Operate the switch only if you want the fan on continuously for a period of time. For example, you may wish to vent cooking smells or to lose indoor hot air on a summers day. Remember to operate the switch again when you want the system to control itself.
8. Neither the fan nor the humidistat require maintenance by you.
9. Please keep this leaflet in a safe place.
10. Finally, the important matter of running cost and the effect upon your electricity bills. Your humidity controlled fan system will run at 25 watts, as you know an electric light bulb runs at 100 watts. Therefore, when the fan is running the cost is one quarter of a room light bulb.

**INSTALLERS: PLEASE LEAVE THIS LEAFLET WITH THE HOUSEHOLDER**