

Installation Instructions for the 100mm 4" / 120mm 5" / 150mm 6" Standard, Pullcord, Humidity and Timer Extractor Fans

Important Notes

- (i) When installing fan through an external wall, an external wall grille must be fitted at all times.
- (ii) This fan must be installed by fixed wiring only. A flexible cord should not be used.
- (iii) 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 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 bath. Fan to be fitted a minimum of 1.8 metres from floor. When fitting through an external wall, an external grille must be fitted at all times.
- (iv) When the fan is mounted on the wall it **MUST** be installed with the PCB and connection terminals at the TOP as shown in diagrams 1, 2 & 3.
- (v) This product should be fitted by a competent person who is aware of Part P Building Regulations. All wiring must comply with current IEE Regulations. Must be securely fixed and the cable must be a minimum of 1mm sq in section. If in doubt contact a qualified electrician.
- (vi) For best results this extractor fan should be fitted as high on the wall as possible, or if preferred, on the ceiling.
- (vii) Do not install the unit in a shower cubicle.
- (viii) Switch off mains supply before making electrical connections.
If in any doubt contact a qualified electrician.
- (ix) This fan is double insulated and does not require an earth

1. Cut a hole in the wall to suit the fan and ducting (112mm/4^{1/2}" for 4" 140mm/5^{1/2}" for 5" and 173mm/6^{3/4}" for 6").
If the fan is to be fixed in the ceiling ensure that the hole is between the joists.

2. Fix ducting flush to the plaster of the wall or ceiling.

3. Remove the front cover.

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

6. Replace front cover and secure using the front cover screw and insert the hole plug in screw hole.
(screw and plug clipped on chassis)

Wiring of Humidity Model - Diagram 1

For this fan to operate as a normal Time Delay Unit with Humidity Override, i.e. when connected to a Switched Live Supply coming from the light switch into the Fan, the Fan will operate when the light is switched on and will switch itself off after the pre-set time. However, should the humidity rise above the pre-set level the Fan will switch on and 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. It is, therefore, advisable that in normal situations the Fan be pre-set at between 0% and 80% RH. In exceptional circumstances e.g., very humid days in the Summer, the Fan may well switch on at 80%. This is not unusual and a higher setting may be preferable.

NOTE: When the humidity fan is first installed they can run continuously for several hours.

Wiring of Standard Model - Diagram 2

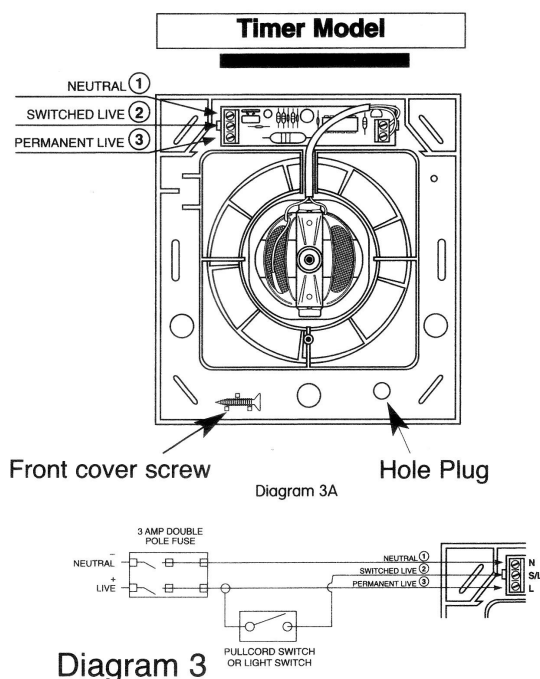
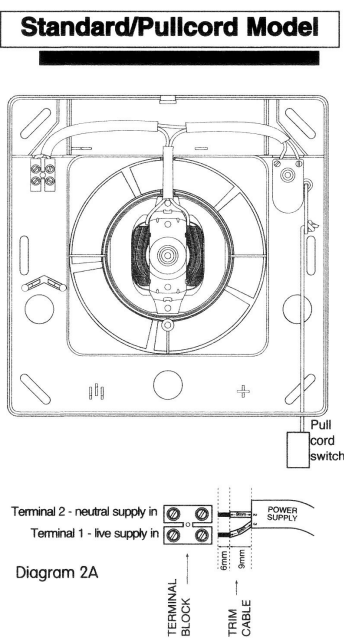
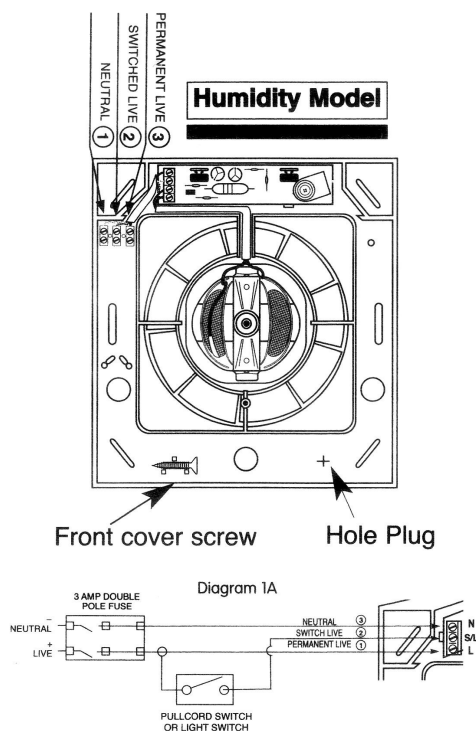
This fan can be either operated from a suitable remote switch or a separate pullcord switch fitted to the ceiling of the room or can be connected to the light switch so that the fan will start when the light is switched on. The cable from the fan must be connected to a double pole fused spur having a contact separation of at least 3mm in all poles, it 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.

Wiring of Pullcord Model - Diagram 2 (THIS MODEL IS NOT SUITABLE FOR CEILING FIXING)

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, it 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.

Wiring of Timer Model - Diagram 3

The fan can be either 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.

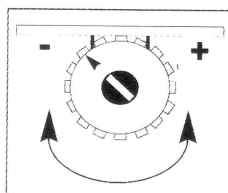


Important: Switch off mains supply before making any electrical connections. NB: Fan should be mounted at a minimum height of 2.2m. Fans should be installed by fixed wiring only. A flexible cord should not be used. Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other open-fire appliances when mounted in outside windows or walls.

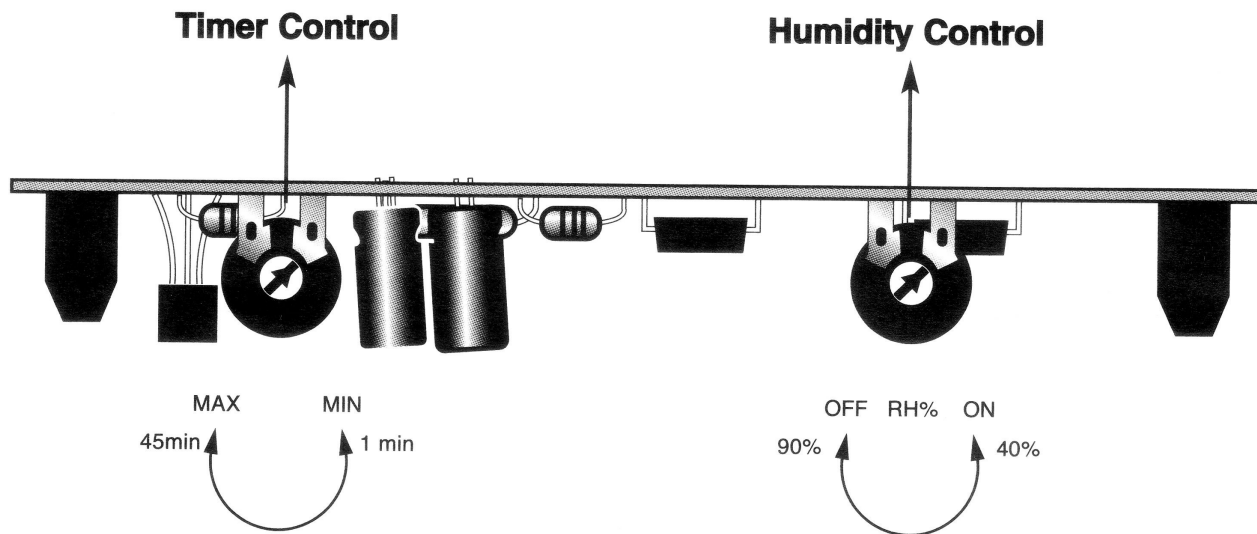
Timer Adjustment

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 timer cover and bracket and carefully turn the thumb wheel clockwise to reduce the time and anti-clockwise to increase the time. **Only adjust with power switched off.** 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.**

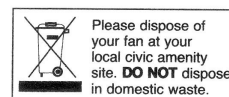
Thumb Wheel Timer Adjuster



OPERATOR INSTRUCTIONS HUMIDITY OPERATED TIME DELAY CONTROL



The timer and humidity adjustments are as the normal instructions



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