

# INSTALLATION INSTRUCTIONS

100mm 4"/ 120mm 5" / 150mm 6"

Standard, Pullcord, Humidity, Humidity Pullcord and Timer Extractor Fans

**Switch off mains supply before making any electrical connections.**

**Installation must be supervised by a qualified electrician.**

**A double pole fused spur having contact separation of at least 3mm in all pole must be used and fitted with a 3A fuse.**

**This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory and mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved.**

**Children shall not play with the appliance.**

**Cleaning and user maintenance shall not be made by children without supervision.**

**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.**

**Fan must be disconnected from electrical power before any maintenance is carried out.**

## Location

1. When installing fan through an external wall, an external wall grille must be fitted at all times.
2. For best results this Extractor Fan should be fitted as high on the wall as possible, or if preferred, on the ceiling. Note: Pullcord models should not be installed in a ceiling.
3. When installing **Timer or Humidity** fans ensure the electronic circuit board is at the top of the fan.
4. Do not install the unit within a shower cubicle or anywhere else where there is a risk of being sprayed with water (Please see our range of showerfans for these installations.).
5. If the fan is installed in a room containing a fuel burning appliance, the installer must ensure that the air replacement is adequate for both the fan and the fuel burning appliance.
6. Where ducted fans are used to handle moisture-laden air, such as a bathroom, a condensation trap should be fitted in any vertical exhaust ducts.

## Wiring

1. Switch off mains supply before making electrical connections. If in any doubt contact a qualified electrician.
2. These units are for fixed wiring only. A flexible cord must not be used. 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 I.E.E. Regulations or local regulations if outside the UK.
3. A double pole fused spur having contact separation of at least 3mm in all pole must be used and fitted with a 3A fuse.
4. This fan is double insulated and does not require an earth connection.
5. The fan should not be accessible to a person using either the shower or the bath.

## Installation

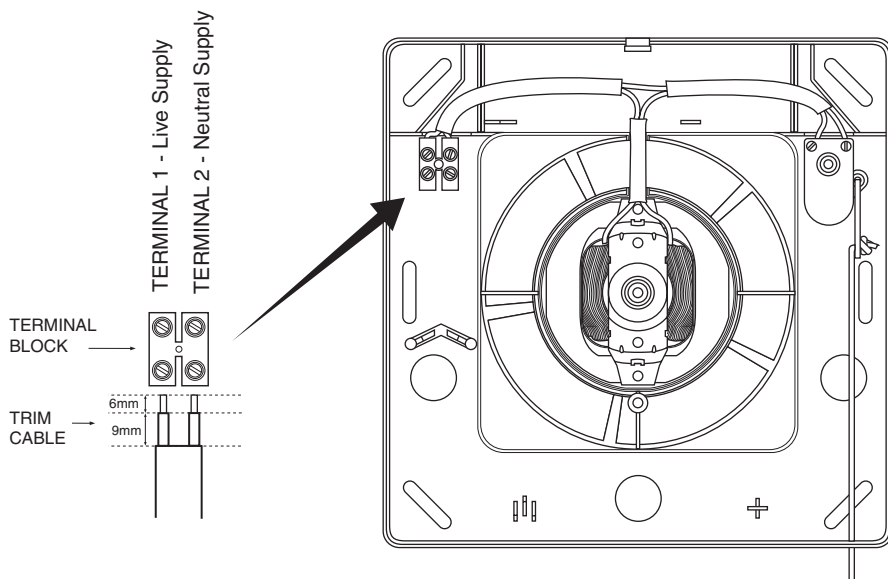
1. Cut a hole in the wall to suit the fan and ducting. If the fan is to be fixed in the ceiling ensure that the hole is between the joists.
2. Fix ducting flush to the plaster of the wall or ceiling.
3. Remove the front cover. To remove the front cover, first remove the hole plug than using screw driver to remove the self tapping screw, then cover can be remove unclip.
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.  
Connect as shown in the following diagrams.
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)

Fan Size	Hole Size
100mm / 4"	112mm / 4 <sup>1/2</sup> "
120mm / 5"	140mm / 5 <sup>1/2</sup> "
150mm / 6"	173mm / 6 <sup>3/4</sup> "

## Standard and Pullcord models

Standard fans can be wired into the lighting circuit to turn and off with the lights or into a remote pullcord switch for manual activation.

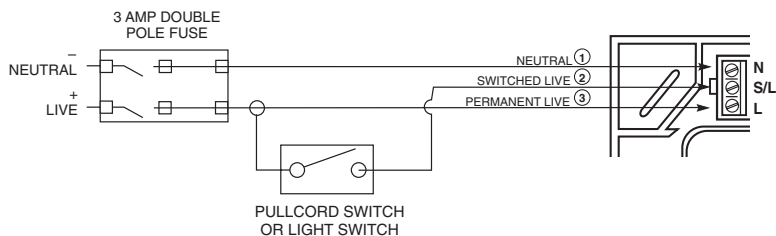
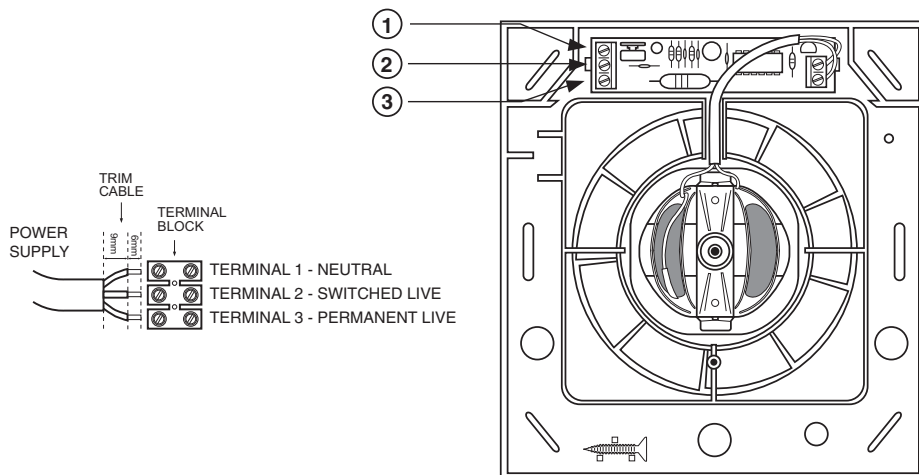
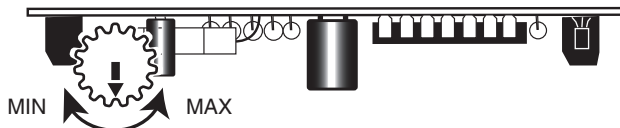
Pullcord fans have their own internal pullcord switch and should be wired into a permanent live and neutral.



Note: Pullcord not present on standard fans

## 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 outer cover and carefully turn the thumb wheel left / clockwise to reduce the time and right / anti-clockwise to increase the time. **Only adjust with power switched off.** The minimum the timer will run for is approximately 1 minute and the maximum is about 40 minutes. **NB Timer delay is adjustable as indicated on the timer strip cover.**



## Humidity Models

These fans have a built in humidity sensor to detect the level of humidity in the room they are located in, you can set the the sensor to activate the fan if they humidity rises above the level it is set to. Humidity levels will vary naturally according to the weather and time of year. If the fan runs continually then it may be the ambient level of humidity in the atmosphere is above the level the fan is set to, if this happens, turn the humidity adjuster up in small increments until the fan stops running (you may want to turn the timer to minimum to reduce the amount of time it takes for the fan to run while you are making these adjustments). To adjust the fans run on time rotate the thumb wheel anti clockwise to reduce the time or clockwise to increase the time.

These fans have two modes of operation:

**Switched Live** - The fan can be wired into the lighting circuit or a remote pullcord switch and activated when the lights are turned on or the cord pulled, it will then turn itself off when the pre-set time has elapsed. The switched live will over-ride the humidity sensing function, when the switched live is off the humidity sensing still operates, turning the fan on if the humidity level in the room rises above the level set on the circuit board.

**Humidity Sensing** - The fan has its own humidity sensor which can be set to turn the fan on when humidity reaches that level and turn itself off when humidity drops below that level and the pre-set time has elapsed.

### Adjusting the fan's humidity sensing

To make the fan switch on at lower levels of humidity rotate the thumb wheel anti clockwise, for instance if the fan does not activate when there is condensation in the room. To raise the humidity level at which the fan activates rotate the thumb wheel clockwise, for instance if the fan is running continually even when the timing is reduced.

