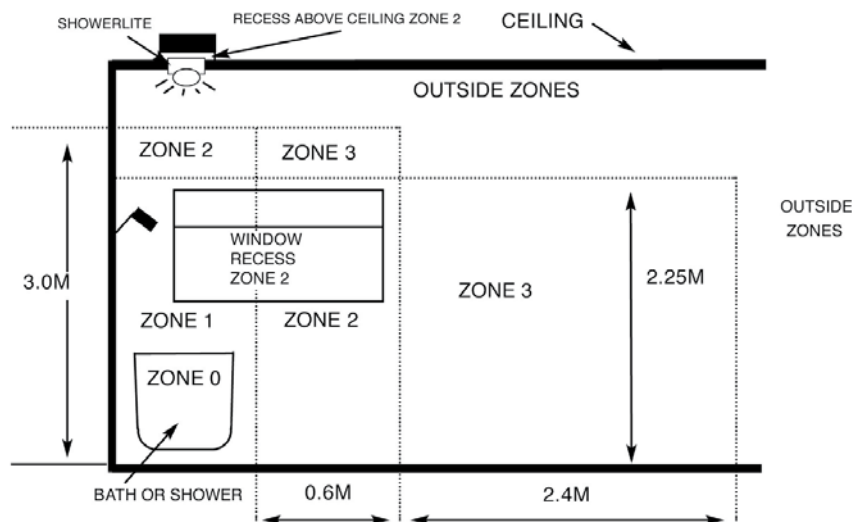


DIAGRAM 3 – Bath and Shower room zones



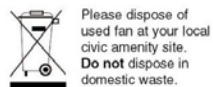
# MANROSE®

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# INSTALLATION INSTRUCTIONS

## THE LOWATT RANGE OF FANS

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

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

**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. 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.). Please refer to zone diagram in this instruction.
4. 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

## 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.

## Fan installation

1. When a fan is mounted on a wall it must be installed with the pcb and connection terminals at the top. See diagram 2.
2. This product should be fitted by a competent person who is aware of part p building regulations.
3. For best result the extractor fan should be fitted as high on the wall as possible, or if preferred on the ceiling.  
Bathrooms and shower rooms: the lowatt fans must be fitted outside any zones. If in any doubt consult a qualified electrician. See diagram 3 for zones.
4. Cut a 112mm / 4" hole in the wall.
5. Fix ducting flush to plaster or ceiling
6. Remove the front cover. This should lift off the screws and holes plugs are clipped to the inside of the fan.
7. 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 make the connection.
6. Replace the front cover and secure using the front cover screws and insert the hole plugs into the screw holes.

## Lowatt fans

### Wiring of lowatt humidity model

See diagram 2

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. For the fan to operate a normal time delay unit with humidity over-ride I.E. When connected with a switch 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%. Requires neutral, switch live and perm live supply. Refer to internal wiring label and diagram 2 of this instruction for correct connection.

Note: when the humidity fan is first installed they can run continuously for several hours.

This fan requires a permanent live and permanent neutral supply. Refer to internal wiring label for correct connection. The fan will operate should the humidity in the room reach to a higher level than the sensor detects and will run continuously until the humidity level is reduced.

### Wiring of lowatt standard model

See 'wiring', front page.

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 fan should not be accessible to a person using either the shower or the bath.

### Wiring of lowatt timer model

See diagram 1 & 'wiring', front page.

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.

### 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

DIAGRAM 1 LOWATT Timer adjustment

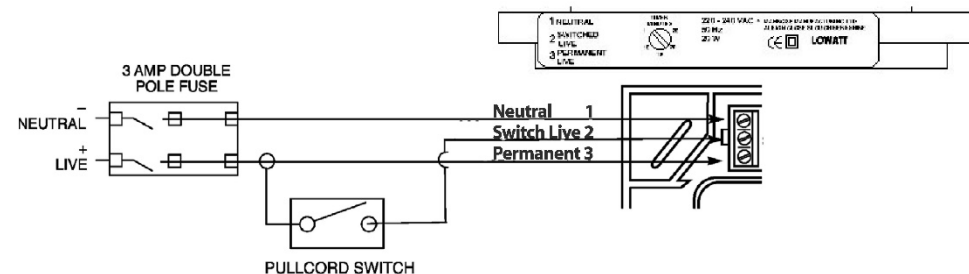


DIAGRAM 2 LOWATT Humidity adjustment

