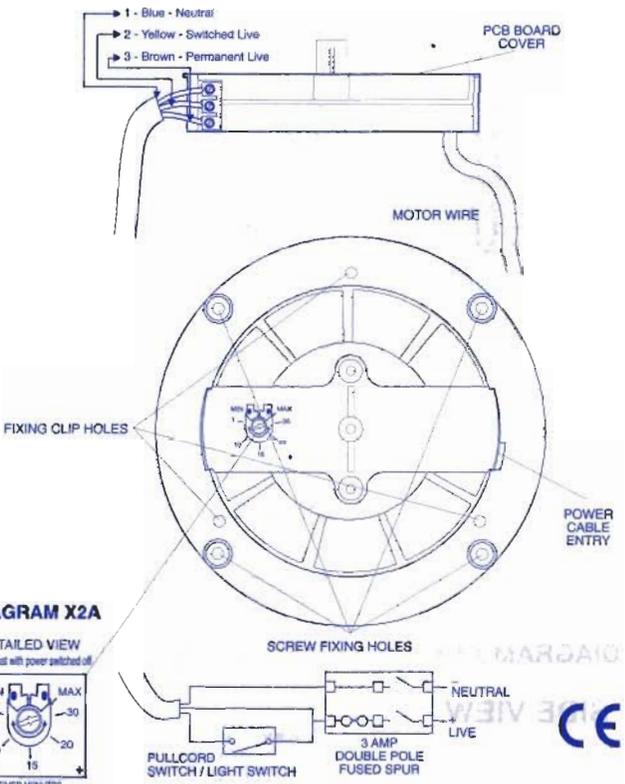


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INSTALLATION INSTRUCTIONS FOR THE LO PROFILE EXTRACTOR FAN SERIES. (LP100/4", LP120/5", LP150/6")

DIAGRAM X2 TIMER MODEL TOP VIEW



- 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.
2. Hole recommended sizes for wall & ceiling fixing:- LP100 = 115mm LP120 = 140mm, LP150 = 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 X1.**

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 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 1mm² in section. All wiring must comply with current I.E.E. Regulations. If in any doubt contact a qualified electrician.

7. **Wiring of Timer Model. See Diagram X2.**

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 1mm² in section. All wiring must comply with current I.E.E. 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 X2A. Insert a small screwdriver into the slot, marked  in Diagram X2A, 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.**

LP100, LP120, T. Max 40°C Rated 220-240V ~50Hz 20W  IP24

LP150, T. Max 40°C Rated 220-240V ~50Hz 25W  IP24

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 X1
STANDARD MODEL**

TOP VIEW

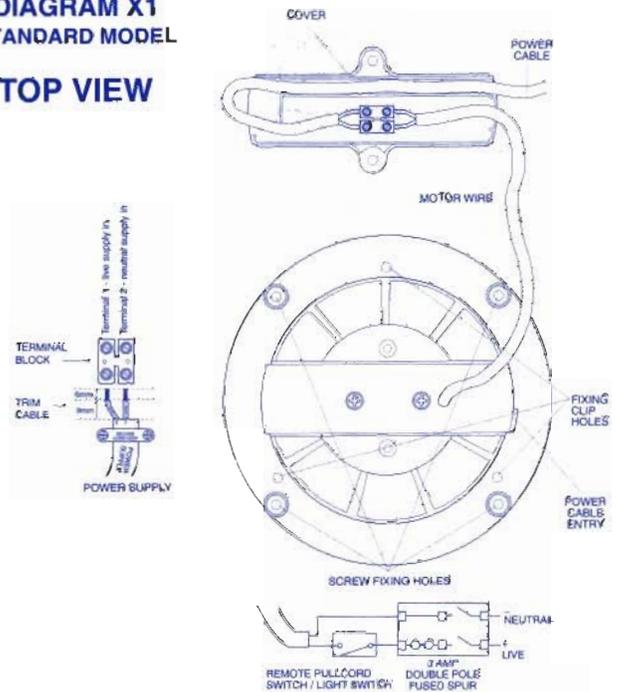
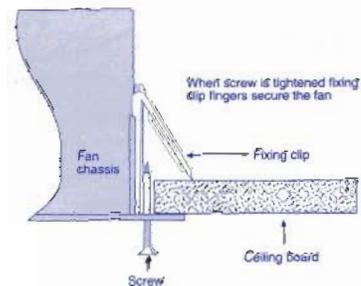


DIAGRAM X1A

SIDE VIEW



After checking that all wiring is secure, fit the transformer on the pattress.

Special features

T12 T As the transformer has a timer fitted the time delay can be adjusted by turning the adjuster on the front cover to the required time delay, as indicated.

T12 H As the transformer is fitted with an internal electronic humidity sensor and time delay, these can be adjusted on the front cover to the required settings.

Ideal settings are:-

Timer set to about 10mins

Humidity set to about 75% to 80% R.H.

In new buildings the fan will probably run for prolonged periods or even several days. It may be necessary to increase humidity setting to about 90% until the building has dried out.

NOTE:

All wiring must be fixed securely and the cable to the fan should be a minimum of 1.5mm² in section. All wiring must comply with current I.E.E. Regulations.

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.

ELECTRICAL

Input 220 - 240V ~ 50 Hz.  IP20. Output 12 Volt AC 50 Hz 35VA S.E.L.V. Must be mounted out of reach of the person using the bath or shower. These appliances are double insulated and do not require an earth, and must be connected to the supply through a suitable double pole isolating switch with a minimum contact gap of 3mm on fixed wiring circuits. The protective fuse must not exceed 3A. Installation must be supervised by a qualified electrician.

**INSTALLATION INSTRUCTIONS
FOR THE 12 VOLT RANGE OF FANS**

Fans can be window, wall or ceiling mounted and are available in three diameters 100mm (4") 120mm (5") 150mm (6").

All fans are of the standard type but are manufactured with 12V ~ 50 Hz shaded pole motors. The unique feature of this product is that the control gear and switching mechanism is mounted remotely either in the roof space or high on the wall next to the pullcord light switch. Obviously Pullcord, Humidstat, PIR and Photoelectric versions have to be mounted inside the room where the fan is installed but must be mounted out of reach of the person using the bath or shower. **N.B. Pullcord models not suitable for ceiling mounting.**

CAUTION These fans must **NOT** be connected to a mains supply. Only use the Manrose Type T12 range of 12V ~ 50Hz 35VA. Safety isolating transformers.

For best results the extractor fan should be fitted as high on the wall as possible or if preferred on the ceiling.

- 1.A. Cut a 112mm (4 1/2") min 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. 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 wall or ceiling.
5. Bring power cable into position, as marked. Allow an extra 230mm (9") protruding to facilitate connection.
6. Connect the cable from the fan to the transformer which must be fitted at least 2m away from a fixed bath or shower outside.

SLV 120mm (5")

1.B. As above but cut a 140mm (5 1/2") diameter hole.

SLV 150mm (6")

1.C. As above but cut a 173mm (6 3/4") diameter hole.

NOTE: All wiring must be fixed securely and the cable to the fan must be a minimum of 1.5mm² in section. All wiring must comply with current IEE Regulations. If in any doubt contact a qualified electrician.

Electrical

12 Volts AC ~ 50 Hz. 20W  IP57.

Supplied by a remote safety isolating transformer.



INSTALLATION INSTRUCTIONS FOR THE RANGE OF 12 VOLT FANS (S.E.L.V.) SAFETY ISOLATING TRANSFORMERS

The T12 Series, Safety Extra Low Voltage Transformers can be mounted in the loft area (not Pullcord, Humidistat, PIR or Photoelectric Models) or high on the wall or ceiling next to the pullcord light switch away from the bath or shower and designed to power 12V Low Voltage fans installed in the splash area of the bath or shower.

N.B. Pullcord models not suitable for ceiling mounting.

Eight models in the range.

Comes complete with pattress but can be flush wall mounted. (Protrusion 25mm).

All models fitted with neon light.

TYPE	WIRING DIAGRAM	INSTALLATION
T12S	T1	Standard model for remote switching.
T12P	T1	As above supplied with pullcord switch. Not suitable for ceiling mounting.
T12T	T2	Timer model incorporating integral adjustable electronic timer (adjustable 1-20 mins). For remote switching.
T12TP	T1	As above but with pullcord override switch. Requires no switched live. Not suitable for ceiling mounting.
T12H	T1	Humidity control with built-in humidity sensor which will switch on when the humidity rises over 75% RH and will switch off as the humidity drops below 75% RH. This level can be adjusted between 50% - 90% RH.
T12HP	T1	As above but with Pullcord override switch. Not suitable for ceiling mounting.
T12PIR	T1	PIR activated model with adjustable timer which switches on as a person enters the room and runs on after the room is vacated. There is no need to connect to a separate switch. Timer adjustable between 1-20 mins. Requires no switched live.
T12PE	T1	Photoelectric operated for bathrooms or toilets without a window. Does not require a switch live supply, only needs a permanent live and permanent neutral direct from double pole fused spur. Will switch on when it senses light from the light bulb which also operates the time delay switch and runs on after the light is switched off. Timer adjustable 1 - 20 mins.

Input 240V ~ 50HZ Output 12V ~ AC 50Hz 35VA S.E.L.V.

CAUTION While a 12V fan may be fitted anywhere in the splash area of a bath or shower the transformer **MUST** be mounted at least 2m from a bath or shower and as high on the wall as possible as in diagram L1.

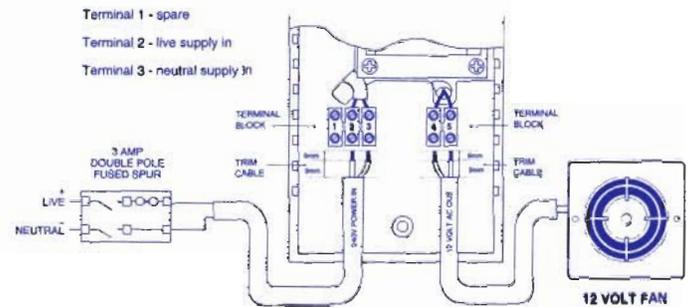


Diagram L1

WIRING INSTRUCTIONS No. T1

- T1 i) Fit the pattress to the wall and connect the 240V ~ 50 Hz supply to terminals No.2 and No. 3 as shown in diagram T1 below.
- ii) The cable to the fan must be at least 1.5mm² in section and is connected to terminals No. 4 and No. 5, as shown in diagram T1 below.

Diagram T1. Rear of Transformer with Pattress removed.



WIRING INSTRUCTIONS No. T2

Timer unit which is operated by a remote pullcord switch or light switch.

Transformer Type T12T

Diagram T2.

