GET PLC

INSTALLATION INSTRUCTIONS

100mm - 4 inch EXTRACTOR FANS

IMPORTANT INFORMATION

1. All fans must be fitted in accordance with BS7671 1992 the 16th Edition of the IEE Wiring Regulations.
   If there is any doubt, the services of a qualified electrician should be sought.

2. Switch off the mains supply before making electrical connections.

3. These fans are double insulated and do not require an earth connection.

4. The fan must be connected to a double pole, fused, switched connection unit (FCU) having contact separation of a least 3 mm in all poles and fitted with a 3 amp fuse. This must be sited outside a room containing a fixed bath or shower.

5. NOTE: Other than the inline model variants, these fans are not suitable for installation within a shower cubicle and must be sited out of reach of a person using a fixed bath or shower.

6. Humidistat models are fitted with a delay timer and manual pull cord over-ride switch.

   If the humidity level in the room rises above the pre-set level the fan will switch itself on and continue to run until the humidity falls below this level.

   The manual pull cord over-ride switch is to be used when the fan is required to be used for continuous operation.

7. Apart from the inline model, all standard fan models can also be window mounted using the GET window conversion kit for 100mm (4 inch) extractor fans.

INSTALLATION - STANDARD MODELS

1. Select a suitable location and make a hole in the wall (or ceiling) approximately 100mm (4 inches) in diameter, allowing sufficient clearance for the ducting. Ensure that there is no obstruction on the outside wall or above the ceiling. NOTE - For wall installations a fall is recommended i.e. a slight slope running from the fan to the outside wall, see diagram 1a. For installations extracting through cool air spaces, i.e. a loft, a condensation trap must be fitted, see diagram 1b and 1c.

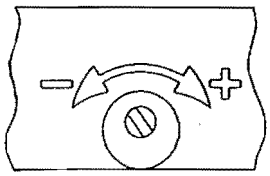
2. With the fan cover removed, hold the body of the fan to the wall or ceiling and mark and drill the fixing holes and appropriate cable entry point. There are four cable entry points, two of which have selective knockout sized to suit 16mm or 20mm cable glands. Mark and drill the fixing hole on the outside wall for the wall grille.

3. Connect the flexible ducting to the fan and secure the end with a cable tie. Place the other end of the ducting into the hole in the wall and feed it in as the fan is offered up to the wall Use wall plugs and screws to fix the body of the fan to the wall.

4. From the outside, pull the ducting through the hole and out by approximately 75mm (3 inches). Connect the ducting to the wall grille, securing it with a cable tie. Feed the ducting back into the hole as the grille is offered up to the wall. Use wall plugs and screws to fix the wall grille to the wall.

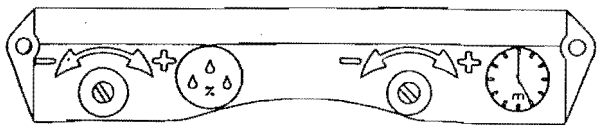
5. Connect the electrical supply to the fan as shown in diagram 2a or 2b

6. For models fitted with a timer, adjust to the required overrun period by turning the control with a small screwdriver, a hole in the pcb cover is provided to guide the screwdriver. Turn the control clockwise to increase the time and anti-clockwise to decrease it. The approximate time variation is 3 to 25 minutes.



TIMER

7. For models fitted with humidistat/delay timer, adjust to the required humidity setting by turning the control with a small screwdriver. A hole in the PCB cover is provided to guide the screwdriver. Turn the control clockwise to increase the humidity setting and anti-clockwise to decrease it. The approximate variation is 50% to 90% RH. and timer variation is approximately 3 - 50 minutes.



HUMIDITY TIMER

8. Refit the front cover.

INSTALLATION - INLINE MODELS

1. Select a suitable location in the ceiling of the shower cubicle, see diagram1d, and make a hole approximately 100mm (4 inches) in diameter, allowing sufficient clearance for the ducting. Ensure that there is no obstruction above the ceiling.

2. Using a suitable ceiling grille, mark and drill the position of the fixing holes. Use wall plugs and screws to fix the grille to the ceiling.

3. Fix the fan to the side or top of a wooden joist or to a board spanning two joists in the correct direction of air-flow as indicated on the cover of the fan. Cut a length of flexible ducting to a suitable length and connect the grille in the shower cubicle to the fan. Secure each end of the ducting with cable ties.

4. Select a suitable location in either the soffit or outside wall and make a hole approximately 100mm (4 inches) in diameter, allowing sufficient clearance for the ducting. Ensure that there is no obstruction on the outside wall or soffit. Cut a length of flexible ducting and fix it to a suitable external grille using a cable tie. Pass the ducting through the hole from the outside and fix the grille as before. Secure the end of the ducting to the fan using a cable tie.

5. With the fan cover removed, connect the electrical supply to the fan as shown in diagram 2a or 2b.

6. For models fitted with a timer, adjust to the required overrun period as for the standard model.

7 Refit fan cover

SPECIFICATION - ALL MODELS

230 volts - 50 Hz
Power: 20 watts maximum
Extract capacity: 93m^3 per hour maximum
Noise level: 45 dB (A)
IP rating: IPX4 ⚠
Maximum room temperature 40°C
Double insulated ⧈
Fused thermal protection
Complies with BS3456 part 102.342:1988

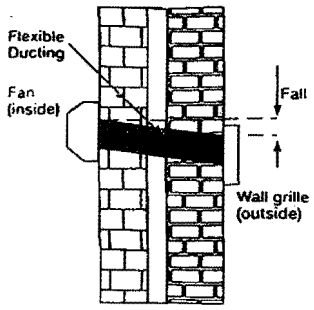


Diagram 1a

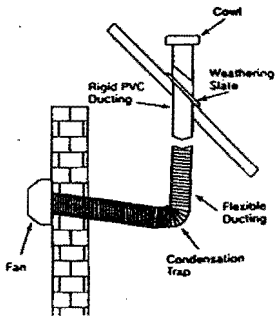


Diagram 1b

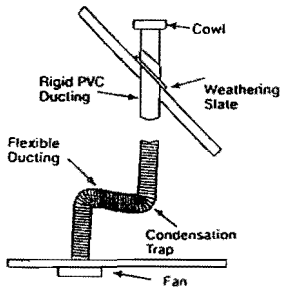


Diagram 1c

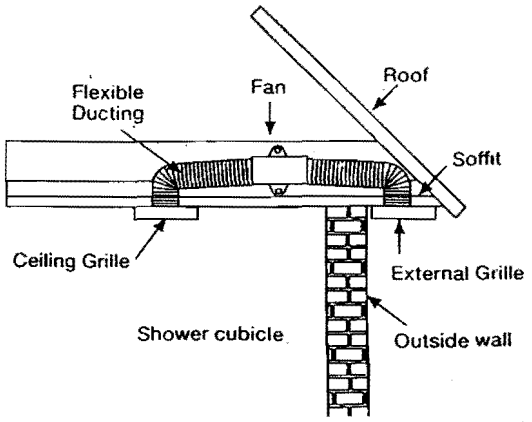
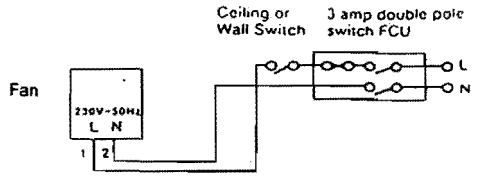


Diagram 1d

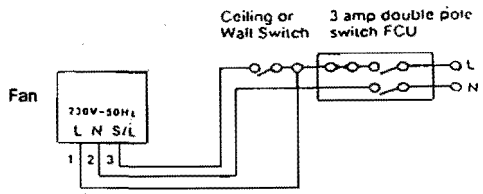
ELECTRICAL CONNECTIONS



Fan without timer

Fan with humidistat/pull cord overide

Diagram 2a



Fan With Timer

Diagram 2b

Diagram 2a

FAN WITHOUT TIMER

Terminal 1 –	Live Supply	(L)	1
Terminal 2 –	Neutral Supply	(N)	2
Terminal 3 –	Spare		3

FAN WITH TIMER

Terminal 1 –	Permanently Live Supply	(L)	1
Terminal 2 –	Neutral Supply	(N)	2
Terminal 3 –	Switched Live Supply	(S/L)	3

Diagram 2b

Diagram X3

TOP VIEW

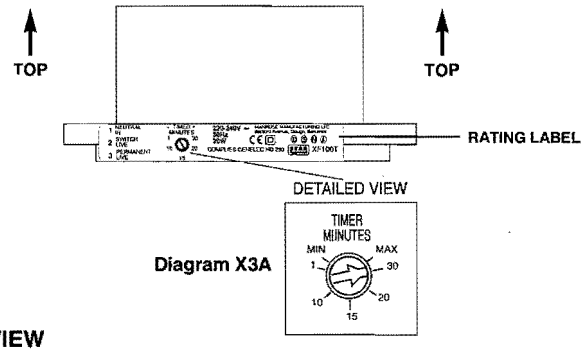
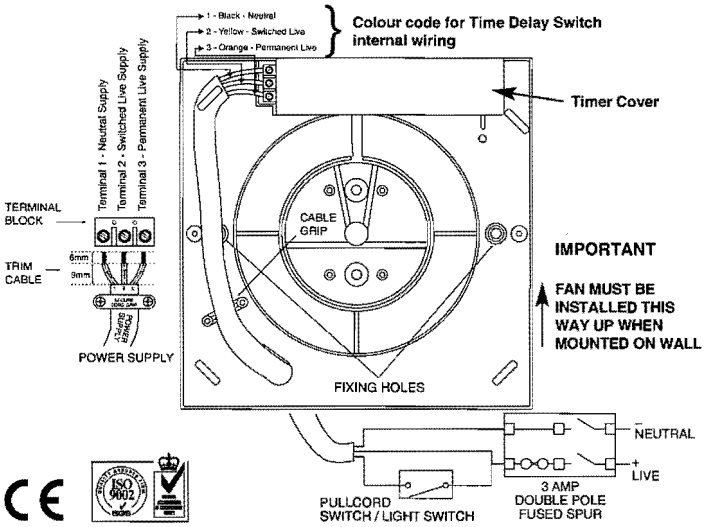


Diagram X3A

FRONT VIEW



MANROSE
MANUFACTURING LIMITED
8G Slough Trading Estate, Slough, Berkshire United Kingdom
Telephone (01753) 691399 Facsimile: (01753) 692294
MANUFACTURERS OF DOMESTIC VENTILATION FANS AND EQUIPMENT

077001 0900

INSTALLATION INSTRUCTIONS FOR THE XF/XP100 RANGE OF BATHROOM/TOILET EXTRACTOR FANS.

(XF100P MODEL IS NOT SUITABLE FOR CEILING FIXING)

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 112mm (4 ½") 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. **Wiring of Standard Model XF100S/XP100S. See Diagram X1.**

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

7. **Wiring of Pullcord Models XF100P/XP100P. See Diagram X2**
(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.
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.

8. **Wiring of Timer Model XF100T/XP100T. See Diagram X3.**

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 XF100T & XP100T only

An XF100T/XP100T 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 X3A. Insert a small screwdriver into the slot, marked ⏱ in **Diagram X3A,** 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.**

T. Max 40°C
Rated 220-240V ~50Hz 20W ⧈ 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

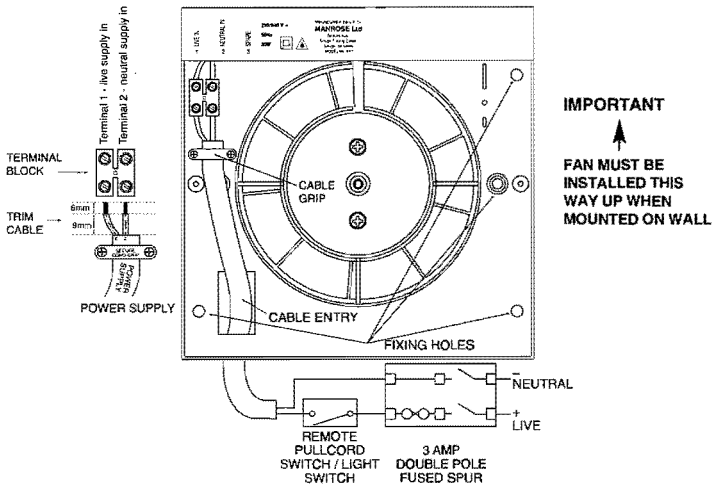
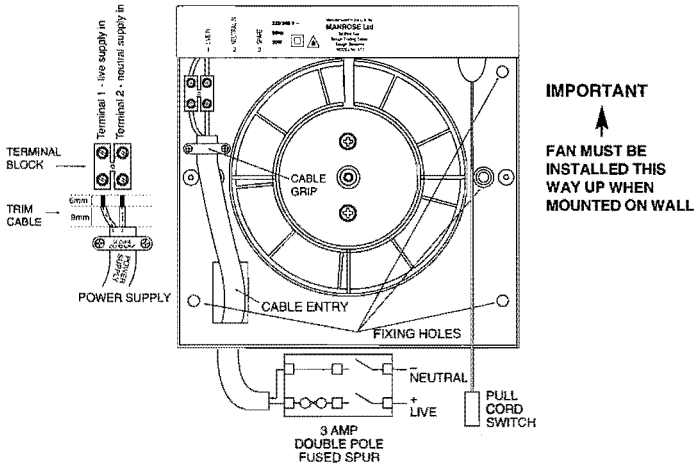


DIAGRAM X2
(UNSUITABLE FOR CEILING MOUNTING)



2489

IN CASO DI REC
RESTITUIR
IL TAGLIAN

IN CASE
OF COMPLAI
RETURN TA

EN CAS
DE RECLAMA
RETOURNE
CE BULLET

Motivo:
Cause: **Motif:**

GARANZIA/GUARANTEE/GARANTIE 1

11630 M 10/4 T 220V./240V. K9H

Questo tagliando è stato spedito il Date of installation Garantie postée le **A**	Timbro rivenditore Name and address of supplier Cachet du revendeur **B**
Apparecchio acquistato il Date of purchase Date de l'achat **C**	

Nome/Name/Nom .....

Cognome/Surname/Prenom .....

Via/Street/Rue .....

Cap/Postal code/Code Postal .....

Città/Town/Ville .....

.....

Dichiaro di aver preso atto delle condizioni di garanzia specificate sul certificato in mio possesso.
I have read and understood the terms and conditions of this guarantee.
Suivant conditions de garantie définies par le certificat en ma possession.

Firma/Signed/Signature .....

Per favore scrivere in stampatello/Please use block letters/Prière d'écrire en lettres majuscules

SPEDIRE ENTRO 8 GIORNI DALL'ACQUISTO
TO BE FORWARDED WITHIN 8 DAYS FROM DATE OF PURCHASE
A RETOURNER DANS LES 8 JOURS SUIVANT L'ACHAT

Vortice Sp.

2489 / 005257

GARANZIA/GUARANTEE/GARANTIE 2

DA CONSERVARE
TO BE RETAINED
A CONSERVER

11630 M 10/4 T 220V./240V. K9H

Questo certificato deve essere esibito al tecnico per le riparazioni a domicilio, oppure accompagnare l'apparecchio se consegnato al centro assistenza di zona **(vedi elenco telefonico alfabetico).**

IMPORTANTE: La garanzia è operante solo se il presente tagliando sarà compilato in tutte le sue parti (riquadri A, B, C).

This guarantee must be attached to the appliance should it need to be returned for servicing.

N.B. Garantee is only valid if all details are completed correctly.

ATTENTION: Pour bénéficier de la garantie, le présent certificat doit obligatoirement accompagner l'appareil présumé défectueux.

Le certificat doit porter le cachet du revendeur et la date d'achat.
A defaut, la garantie sera comptée à partir de la date de sortie d'usine.

Timbro rivenditore
Name and address of supplier
Cachet du revendeur
A

Data/Date/Date C

VORTICE

I CENTRI DI ASSISTENZA TECNICA SONO RIPORTATI SULL'ELENCO TELEFONICO ALFABETICO.

Il tagliando di garanzia è stato spedito il
Date of installation
Date d'achat

B

FRATELLI POZZONI S.P.A. CISANO BERGAMASCO

2489

Modello:
Model:
Modèle:

11630

Acquistato
Date of pu
Date d'ach

TAGLIAN
CONTR

TALL

BULLETI
CONTR

CONF

– Dir/Produzione

! PPK

MAX 250W - MIN 40W
PER GANG
2 GANG 1 OR 2-WAY

SUPERSWITCH

replacing a normal double lightswitch (1 or 2 way) with a Superswitch Double Dimmer
:urn the lights up or down to suit the occasion or your mood. Ideal for lounges,
ıg areas or in the hall or children's room as a low cost night-time or safety light.

Made from high grade long lasting materials and electronic components, this dimmer
nce complying with the applicable British Standards (BS 5518 and BS 800) and
Electrical Equipment Safety Regulations.

TABLE
WITH
SCENT
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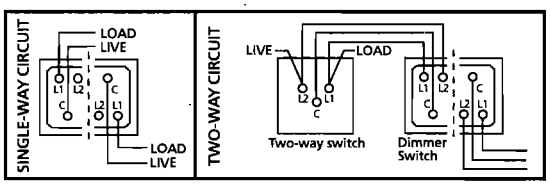


26020

Guaranteed for twelve months from date of purchase.
Your statutory rights remain unaffected.

Superswitch Electric Appliances Ltd.
Houldsworth Street, Reddish, Stockport, Cheshire SK5 6BZ.

a **Pillar electrical** company

ENSURE ELECTRICITY IS TURNED OFF BEFORE INSTALLING DIMMER

Made in Great Britain

***250* WATT**
1 OR 2 WAY

SIMPLY REPLACES EXISTING LIGHTSWITCH.

2602 PPK

SUPERSWITCH

PUSH ON/OFF DIMMER SWITCH

SET THE SWITCH TO CHANGE THE MOOD

ENGLISH

CAUTION

General warnings

Recommended by the ANIE (National Association of Electrotechnical and Electronic Industries) member manufacturers.
Read the instructions in this booklet carefully as they give important information on the correct installation, use and maintenance of the appliance.
Keep this booklet in a safe place so that it will be available for future reference.

- After removing the packaging check that the appliance has not been damaged in transit.
  In case of doubt do not attempt to rectify or use the appliance.Seek advice from a suitably qualified person or Vortice Ltd.
- Before connecting the appliance to the mains supply ensure that the rating label specifications correspond to your electrical supply (the rating label is to be found on the top part of the extractor housing).
- This appliance must only be used for the purpose for which it was designed, i.e. ventilation of rooms.
  All other uses must be considered to be potentially dangerous. Vortice Ltd cannot be held responsible for any damage caused by improper, incorrect or unreasonable use.
- The safe use of any electrical appliance involves the observing of certain basic rules, in particular:

– do not touch the appliance with wet or moist hands or feet;
– do not touch the appliance with bare feet;
– do not pull the plug from the power socket by the mains lead of the appliance itself;
– do not leave the appliance where it is exposed to adverse elements such as rain, salt, etc;
– do not let young children, aged or infirm persons use the device without supervision.

- Before beginning any cleaning or maintenance operations disconnect the appliance from the electrical supply by taking out the plug or switching off the appliance isolation switch.
- In the case of a fault and/or malfunction of the appliance, switch it off but do not attempt to rectify. Seek advice from a suitably qualified person or Vortice Ltd.
  If repair is necessary contact Vortice Ltd. or your local Service Agent. If any other Service Agency is employed insist that only Vortice spare parts must be used.If the above action is not carried out the safety of the appliance could be affected.
- Should it be decided not to use this appliance any longer, it should be removed from the electrical supply and rendered inoperative, then disposed of in the normal manner.
  It is also recommended to make harmless those parts of the apliance which could be harmful, especially to children who might play with the disused appliance.
- The installation must conform to the requirements of the latest issue of the I.E.E. wiring regulations.
- Do not install the fan where it will be exposed to a temperature in excess of 40°C (104°F).

N.B.: This device was carefully manufactured. Its mechanical and electrical dependability and durability will be more efficient if it is used correctly and if maintenance is regularly carried out.

Special general warnings

- CAUTION. This is a helical extract fan to extract air directly to the outside. It is not effective, if it is installed in ducting (with strong back pressure) (fig. 1). In this case, use Vortice "centrifugal" exhaust fans (Vort Micro, Vort Medio, Vort Super, Vort Max).
- Installation must be carried out as detailed in these instructions of Vortice Ltd by a qualified person.
  The user is warned that incorrect installation could cause harm to persons

or animals or damage to property. Vortice Ltd cannot be held responsible in such cases.

- Check that the current carrying capacity of the main wiring and socket are adequate for the maximum rating of the device shown on the rating label.In case of doubt, consult a suitably qualified person.
- The fan is supplied for connection to fixed wiring, and must be protected by a 3 amp fuse (for G.B).
- When installing, it is necessary to use a double pole switch with a contact separation of 3 mm or more.
- Do not leave the appliance plugged in unnecessarily. Switch off the main switch of the appliance when the appliance is not in use.
- Do not obstruct the air inlet or outlet grilles or cooling vents.
- It is not necessary to plug the apparatus into a socket equipped with an earth wire as it has built-in double insulation.
- The output air must not be sent back into hot air ducts (e.g. combustion exhausts of gas-fired water-heaters). The system must discharge into a single output flue (dedicated pipe for the expulsion of the air output from the system) or directly through an outside wall.
- The system must be installed in such a way that the impeller is not accessible, on the delivery side, to the test finger contact, as shown below in conformity with current accident-prevention regulations.
  If this is not possible, mount the special grille.
- The system is for wall-mounting.
- If there is already a combustion appliance in the room where the fan is to be installed (e.g. a water heater or a gas fire) which is not fitted with a balanced flue, it is essential to ensure that the air supply to the room is adequate for the correct functioning of both the combustion appliance and the fan.
- Alternatively it may be extracted directly to the outside of the building provided that the outlet is guarded by a special Vortice fixed vane external grille mounted using four screws, and the wall thickness is not less than 8 cm.
- For non-timer versions in rooms other than bathrooms it is permissible to use a BS.1363 8-5 amp plug.
  In addition the isolation switch must be out of the reach of a person using a fixed bath or shower.
- M 15/6 aspirators can be installed in pipes (minimum ø 150 mm. or equivalent square/rectangular section), length 3 ÷ 4 meters with loss of capacity of about 10 m^3.

Method of installation
M 10/4" - M 12/5" - M 15/6"

1) Separate the motor housing (A) from the flange (B), by removing the screws (C) (Fig. 1-2).
2) Fix the flange (B) to the wall so that it corresponds with the extract hole using wall plugs and screws (fig. 3-4).
3) Make the electrical connection fig. 5 (fig. 5-9-11 for G.B.) and replace the motor housing (A).

Method of installation
M 10/4" T - M 12/5" T - M 15/6" T

M/T uses only a small amount of power so it can normally be inserted into the light system already existing in the room.
1) Separate the motor housing (A) from the flange (B) by removing the screws (C) (Fig. 1-2).
2) Fix the flange (B) to the wall so that it corresponds with the extract hole using wall plugs and screws (fig. 3-4).
3) Carry out the electrical connection fig. 6-7 (Fig. 6-9-12 for G.B.) and replace the motor housing (A).
N.B. The timer is preset for a minimum period of 3 minutes, but it is possible to vary it between 3 and 20 minutes by carrying out the following operation:
a) Disconnect the appliance from the electrical supply.
b) Remove the motor housing to gain access to the timer circuit which includes the regulator Trimmer fig. 8 (Fig. 10 for G.B.).
c) Using a screwdriver, rotate the Trimmer very delicately (rotate clockwise to increase the time function, anticlockwise to decrease the time function).
d) Having made the adjustment, replace the motor housing (A), switch on the electrical supply and check that the time corresponds to the time required. If it does not, then the above mentioned operation should be repeated. M/T starts up automatically a few seconds after the room light is switched on and continues to function for the time fixed after the light itself has been turned off.

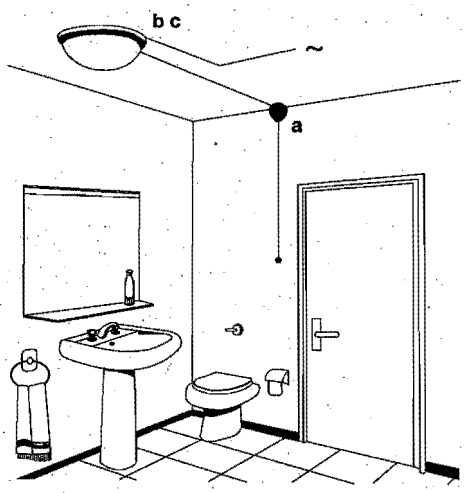
Cleaning

1) Turn off the electrical supply.
2) Separate the motor housing (A), from the flange (B).
3) Clean the housing and impellor with a paintbrush dipped in a solution of water and neutral detergent ensuring that any solution is thoroughly dry before replacing the appliance. In the model with the TIMER take great care not to damage or dampen the electronic circuit board.

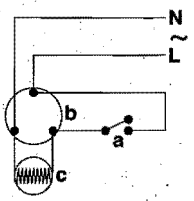
DO NOT IMMERSE THE MOTOR HOUSING IN THE WATER.

FOR G.B.

Fig. 9

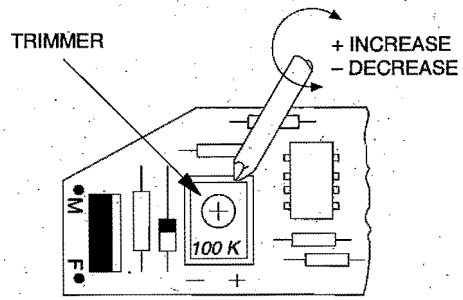


ORIGINAL WIRING



a) Light switch
b) Ceiling rose
c) Light fitting
d) Fan pull cord switch - double pole
e) Fan terminal block - without timer
f) Isolation switch - double pole
g) Fan terminal block - with timer

Fig. 10



FOR G.B.

Fig. 11 M/A

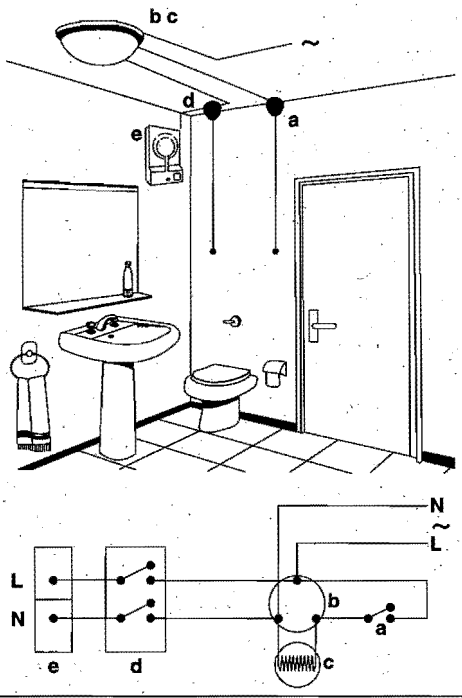
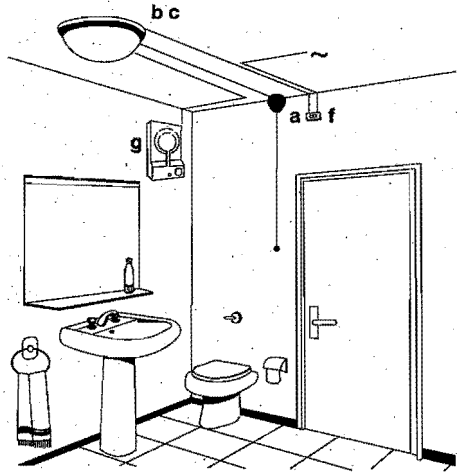
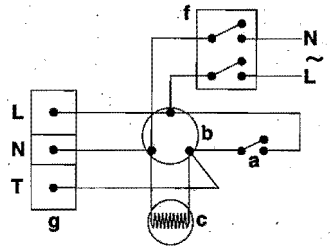


Fig. 12 M/AT

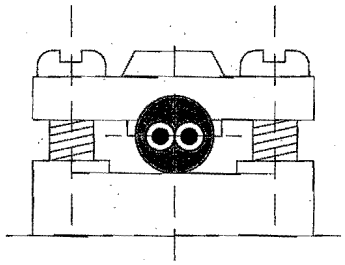




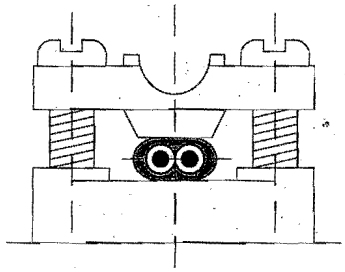
FOR G.B.

POSITION FOR CORD ANCHORAGE STRAP

For circular section cable
Type H05 VV-F

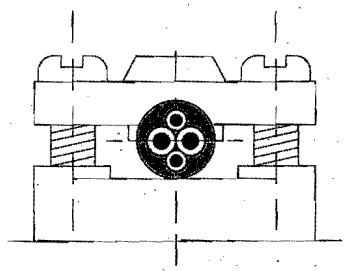


For flat section cable
Type H05 VVH2-F



POSITION FOR CORD ANCHORAGE STRAP

For circular section cable
Type H05 VV-F



N.B. GREEN OR GREEN AND YELLOW CONDUCTOR MUST NOT BE USED AS THESE COLOURS ARE RESERVED FOR EARTHING CONNECTIONS ONLY.