

SUPERVENT FANS - MODELS SV6, SV6P, SV6H, SV6HP and SV6T

Instructions for installation, maintenance and safe use
NOTE TO INSTALLER. Please leave these instructions with the occupier of the premises.

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The Supervent range of fans may also be installed:

- in a window
- to ventilate two rooms simultaneously.

These options require accessories which are available from your Airflow stockist (see section 1.5).

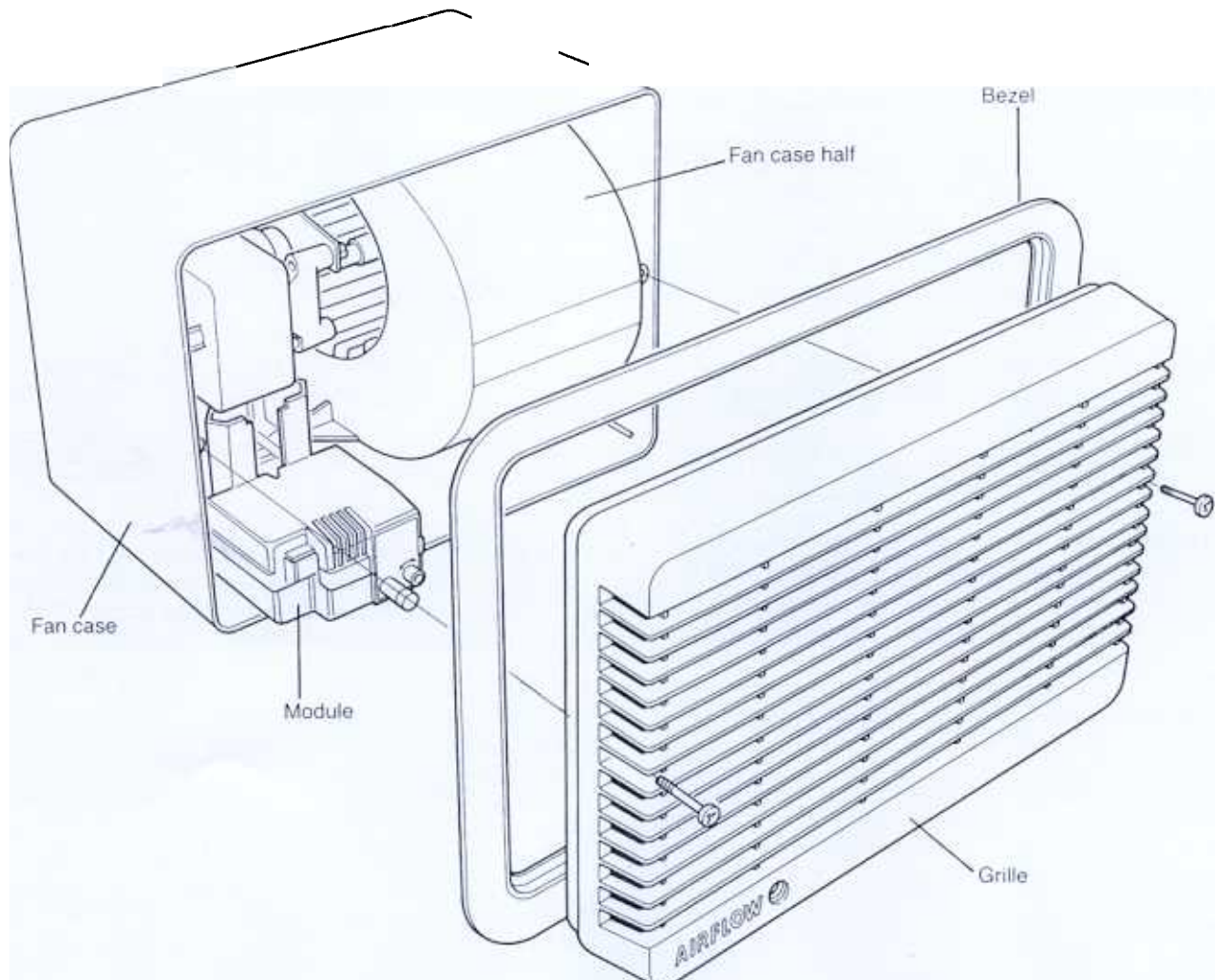


Fig. 1

1. Options

Model	Application	Features	Operation by
1.1 Supervent SV6		Low speed operation with high speed 'boost'	Twin gang wall switch available from Airflow and stockists for off/low speed/high speed 'boost' or Separate pull cord switch for high speed 'boost'. Can be wired to run continuously on low speed
1.2 Supervent SV6P			Can be wired to run continuously on low speed. Integral pull cord switch for high speed 'boost' override
1.3 Supervent SV6H	For kitchens, utility rooms etc. May be wall, ceiling or window mounted or used for two room ventilation.	Adjustable humidity setting. Humidity level exceeding setting by up to 10% activates low fan speed. Humidity level more than 10% above setting activates high fan speed. Low speed and high speed override.	Automatic with humidity level. Special twin gang wall switch to override control of either speed, available from Airflow and stockists.
1.4 Supervent SV6HP		Adjustable humidity setting. Humidity level exceeding setting by up to 10% activates low fan speed. Humidity level more than 10% above setting activates high fan High speed override.	Automatic with humidity level. Integral pull cord
1.5 Supervent SV6T		Adjustable timer overrun period variable from 5 to 30 minutes. Fan speed adjustable to set required air flow	Fan may be activated by door, light switch, remote humidity controller or remote pull cord switch

Accessories available from Airflow stockists. Call (01494) 525252 for details of your local stockist. Accessories are also available from Airflow direct.

1.5.1 External wall grille 150mm square. Airflow Part No. 71747901.	1.5.6 Roof cowl. Airflow Part No. 9004554.
1.5.2 Window kit - ESSENTIAL when window mounting Airflow Part No. 71921501.	1.5.7 Weathering slate 450mm square. Airflow Part No 9004597
1.5.3 Two room ventilation kit. Airflow Part No. 71926101.	1.5.8 Weathering slate 600mm square. Airflow Part No. 9004598.
1.5.4 Wall switch for Supervent SV6. Airflow Part No. 71926701.	1.5.9 Weathering slate 16" flat plate. Airflow Part No. 9004599.
1.5.5 Wall switch for Supervent SV6H. Airflow Part No. 71926801.	1.5.10 Cavity wall kit. Airflow Part No. 71949501.
	1.5.11 Condensation trap 100mm Airflow Part No. 51978301.

2 Positioning

- 2.1** All Supervent models may be fitted surface mounted, or recessed in a wall or ceiling, or mounted in a window. They must not be mounted where there is any possibility of direct liquid spray or where the normal air temperature may exceed 40°C. e.g. directly above a cooking appliance. They should not be used in air containing flammable gases or dust.
- 2.2** It is particularly important that an adequate supply of fresh air is provided if the fan is to be fitted in a room with a gas burning appliance which is NOT of the balanced flue type.
- 2.3** The position chosen should give the best flow of air through the whole room. Consider the position of door, windows, curtains, blinds and sources of stale air odours and condensation. As a general rule the fan should be mounted as high as possible (see fig.~. 2).

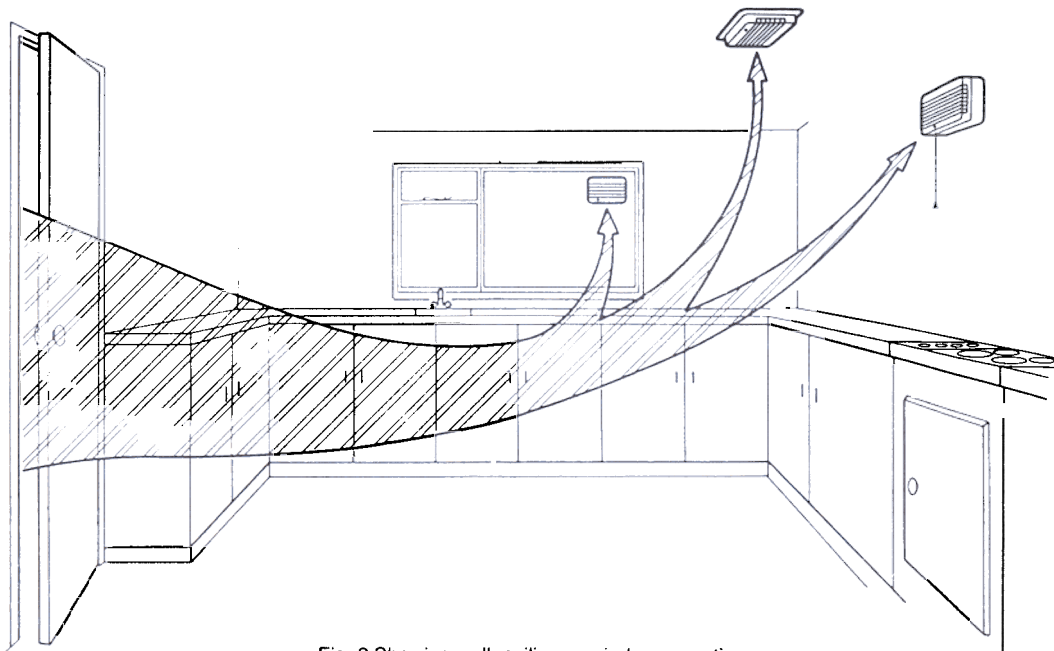


Fig. 2 Showing wall, ceiling or window mounting

3 First steps

3.1 The carton contains an assembled fan, bezel and fixing pack. Unpack these items and check that they are undamaged. If damaged, do not use. Report any damage to the supplier. Check that the impeller rotates freely.

3.2 No special tools are essential, but the use of a 114mm (4 1/2") diameter core drill will help if wall mounting.

3.3 Please read the appropriate part of these instructions before starting work.

4 Wiring arrangements

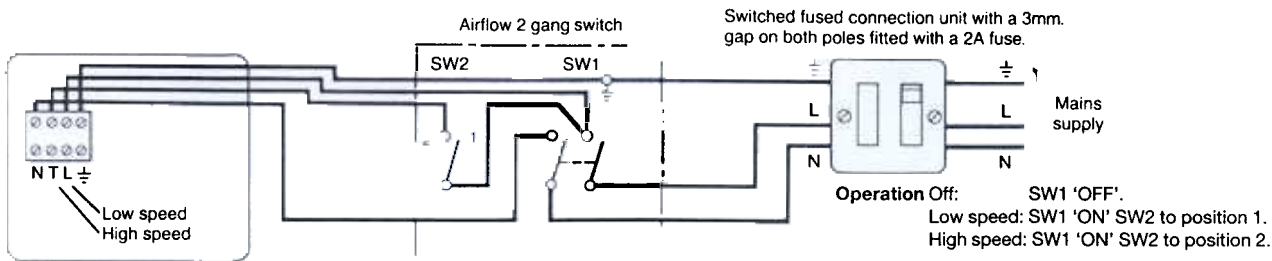
4.1 All electrical installations must comply with BS7671:1992. It is a requirement of these regulations that all appliances shall be installed via a switched, fused connection unit, with a 3mm gap on both poles. It is recommended that the installation is carried out by a qualified electrician.

4.3 Decide which type of installation is required (e.g. Supervent SV6H recessed in a wall) and work out a suitable wiring scheme taking into account the positions of existing wiring and junction boxes. It is often easiest to connect through the lighting circuit. **WARNING.** The Supervent SV6H and SV6HP must not be triggered from a **standard** lighting circuit. If they are to be operated via the lighting circuit, both live and neutral to the light must be switched.

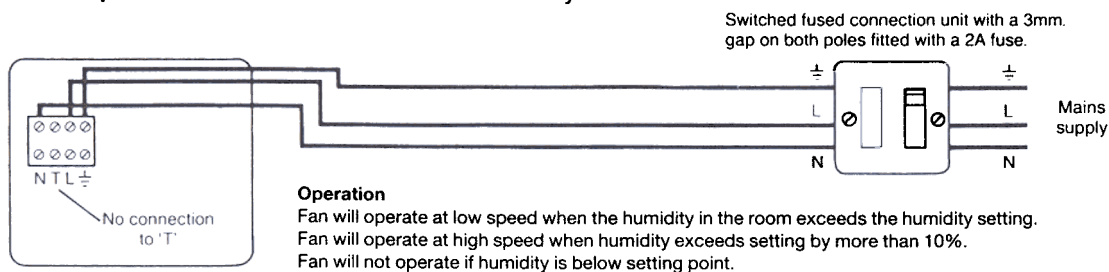
4.2 Supervent fans are designed to operate from a 220-240V, 50Hz a.c. electricity supply

4.4 Wiring diagrams.

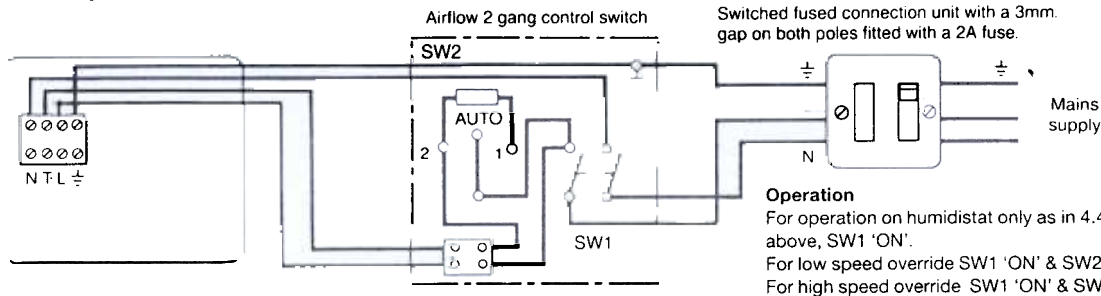
4.4.1 Supervent SV6 - 2 Speed Control



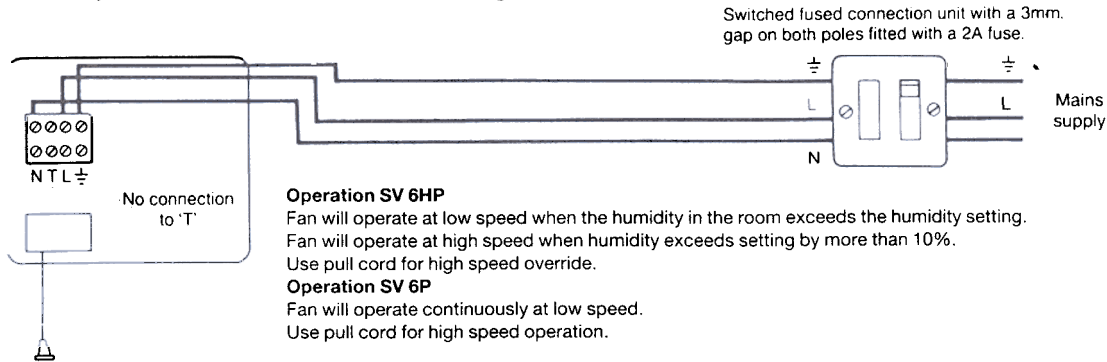
4.4.2 Supervent SV6H - Humidistat Control Only



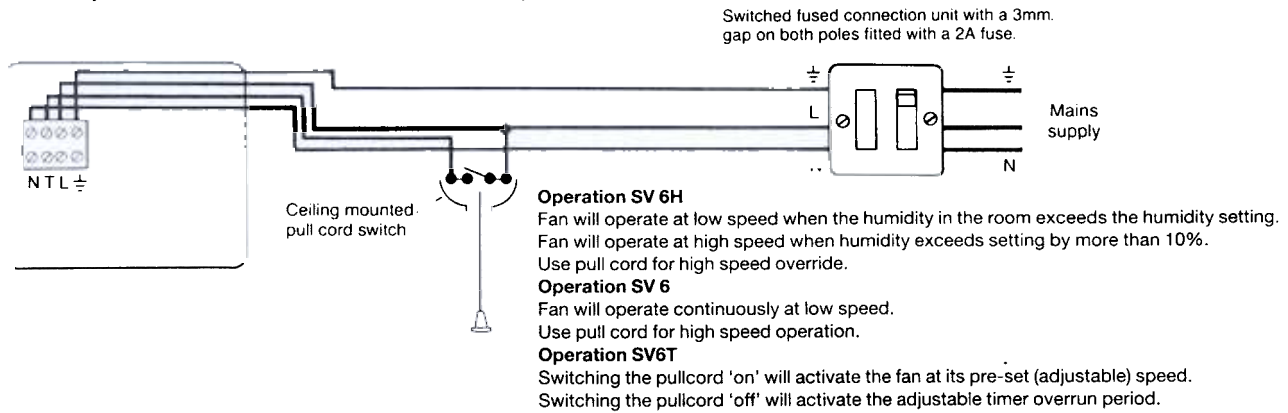
4.4.3 Supervent SV6H - Humidistat Control and override



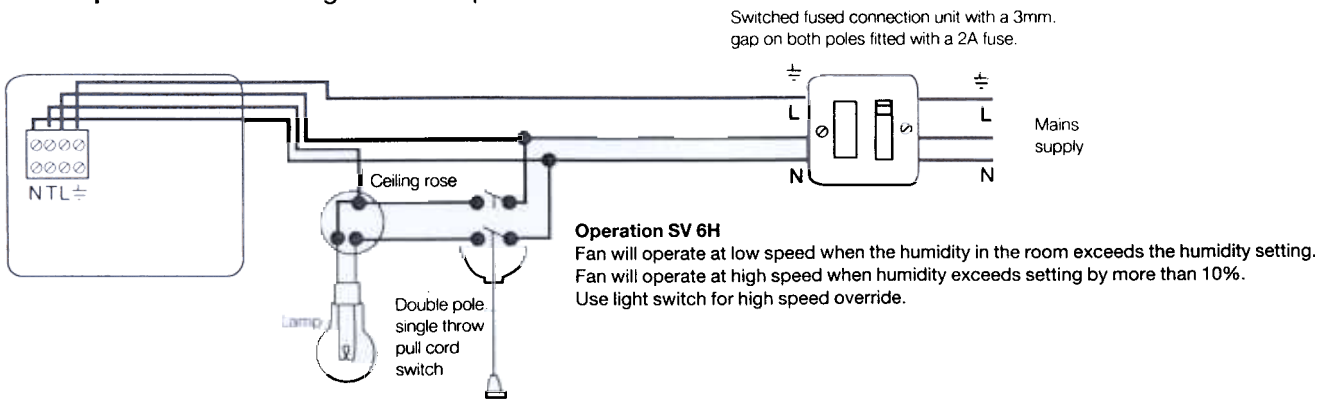
4.4.4 Supervents SV6HP and SV6P - Integral Pull Cord



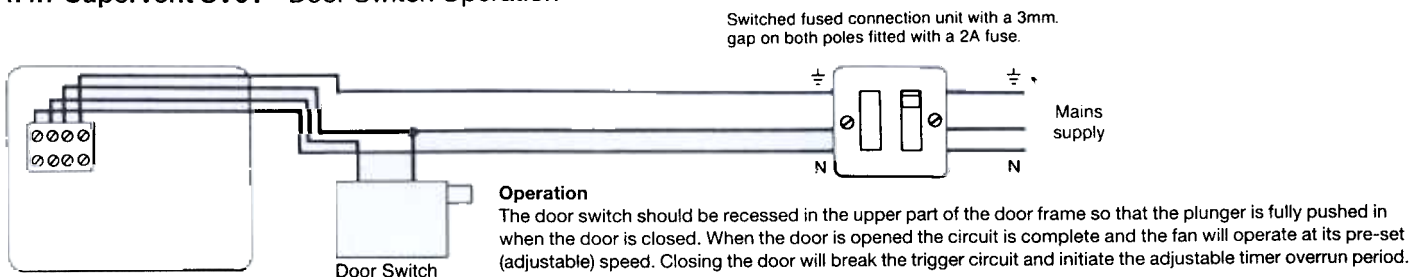
4.4.5 Supervents SV6H, SV6 and SV6T - Separate Pull Cord



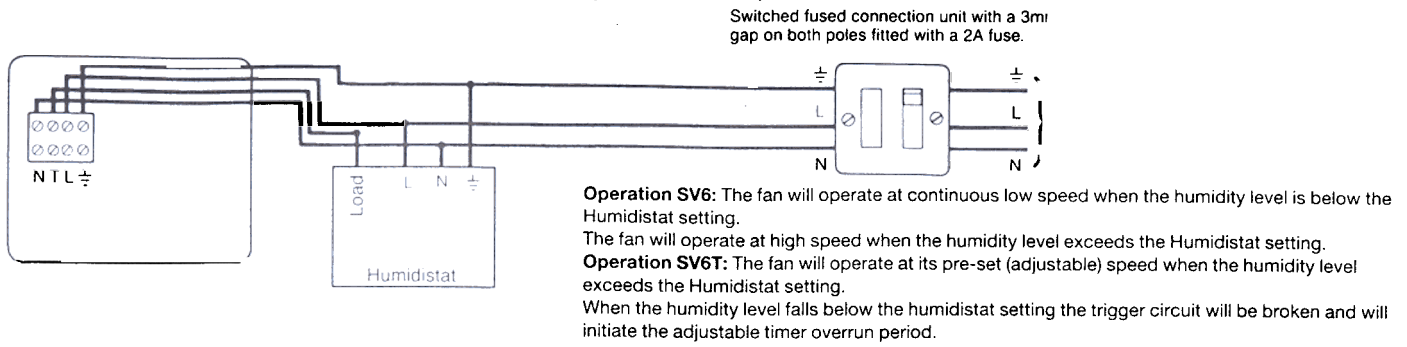
4.4.6 Supervents SV6H - Light switch Operation



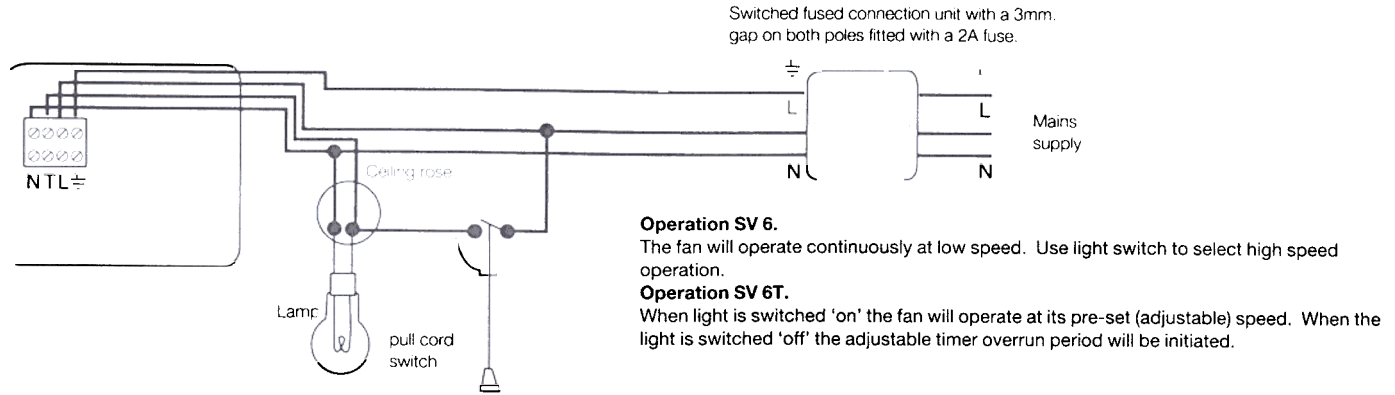
4.4.7 Supervent SV6T - Door Switch Operation



4.4.8 Supervent SV6 and SV6T - Remote Humidity Controller Operation.



4.4.9 Supervent SV6 and SV6T - Light Switch Operation.



5 Installation on a wall surface

5.1

5.1.1 Mark positions and sizes of holes for the exhaust, cable entry and the hole centres for fixing the casing to the wall using the template provided. Cut out or drill the holes required. Plug the four fixing holes for the casing to accept 38mm long No. 8 roundhead screws.

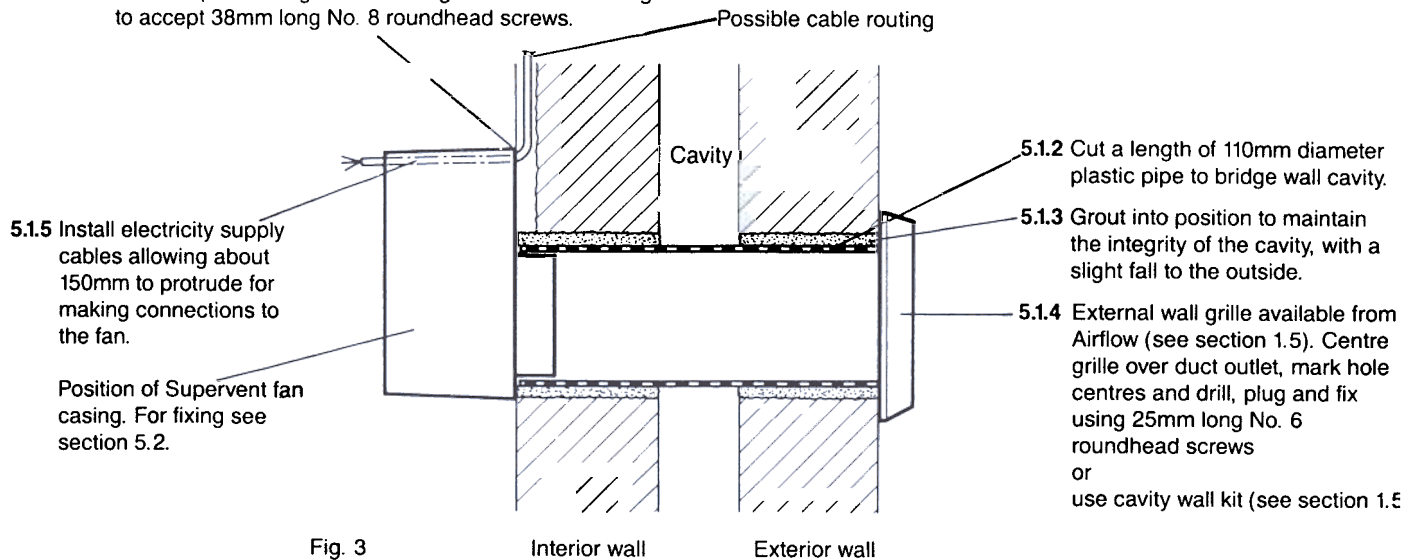
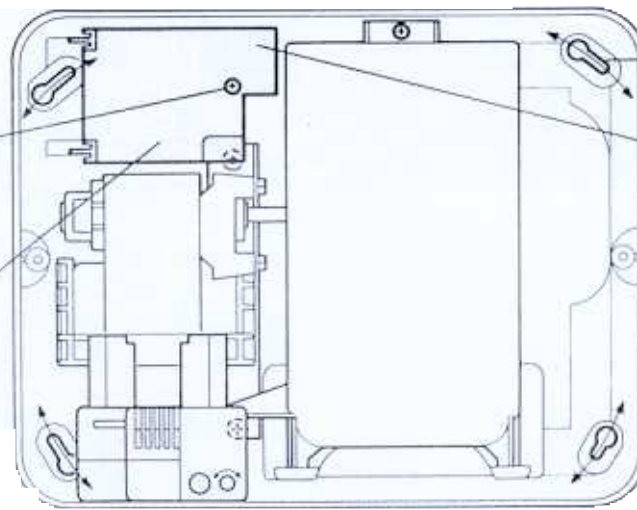


Fig. 3

5.2

5.2.4 Loosen screw, open cover and make electrical connections to the loose 4-way terminal block. This 'plug in' terminal block may be removed to ease wiring. (See section 4.4 for wiring diagrams).

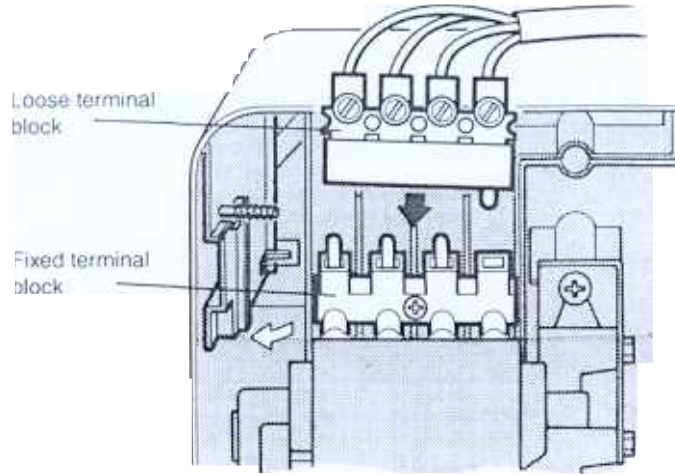
5.2.5 Snap loose terminal block back into fixed terminal block, (see fig. 4a). Close cover and tighten screw.



5.2.1 Fit four No. 8 x 38mm screw in the wall with heads about 10mm proud of the surface.

5.2.2 Feed the electricity supply cables through the entry hole in the back of the case.

5.2.3 Position the fan case over the screws using the keyhole slots. Rotate fan case until top is level and tighten screws.



5.3 Fit the grille to the fan casing using the two screws provided. If a pull cord is fitted, first route it through the slot in the grille before screwing the grille in place. Discard the bezel

6 Installation recessed in a wall

6.1

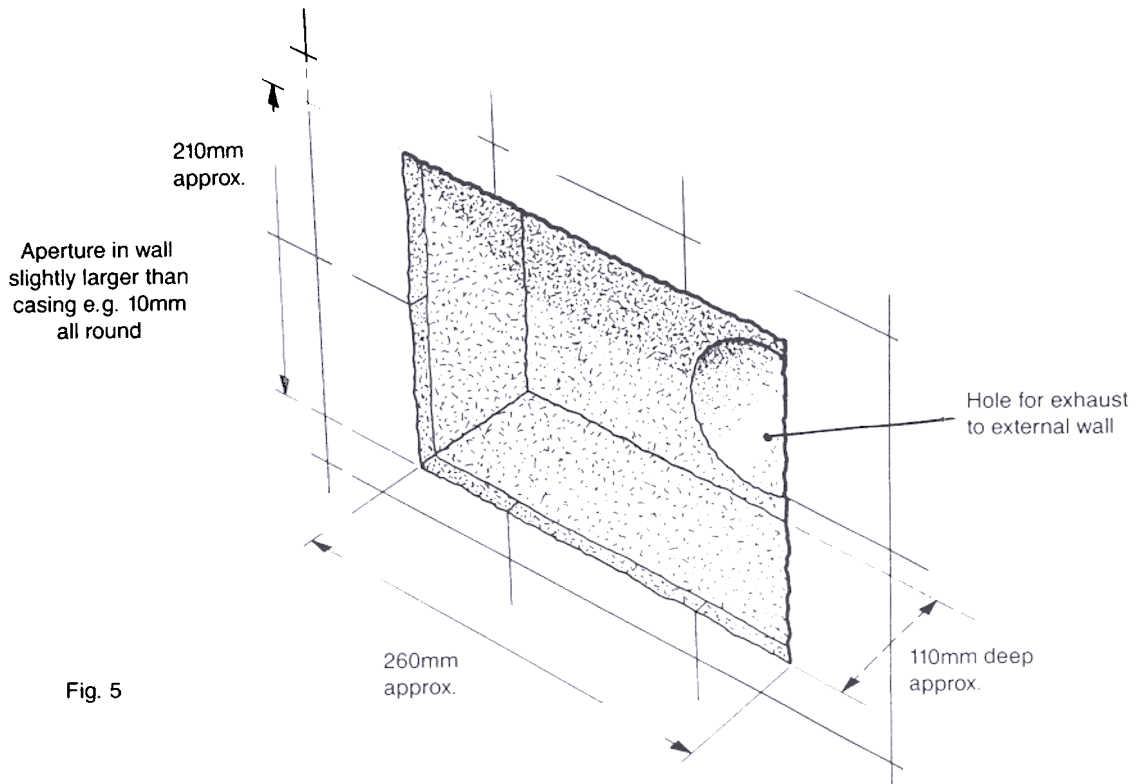


Fig. 5

6.2

6.2.4 Install electricity supply cables, allowing about 150mm to protrude for making connections to the fan.

6.2.5 Feed the electricity supply cables through the entry holes in the back of the case.

6.2.6 Grout Supervent fan in position with the front edge of the casing flush with the surface of the interior wall. Make sure that the top edge of the casing is horizontal.

IMPORTANT. Fit inlet grille (in a plastic bag) to support the casing whilst the grout is setting.

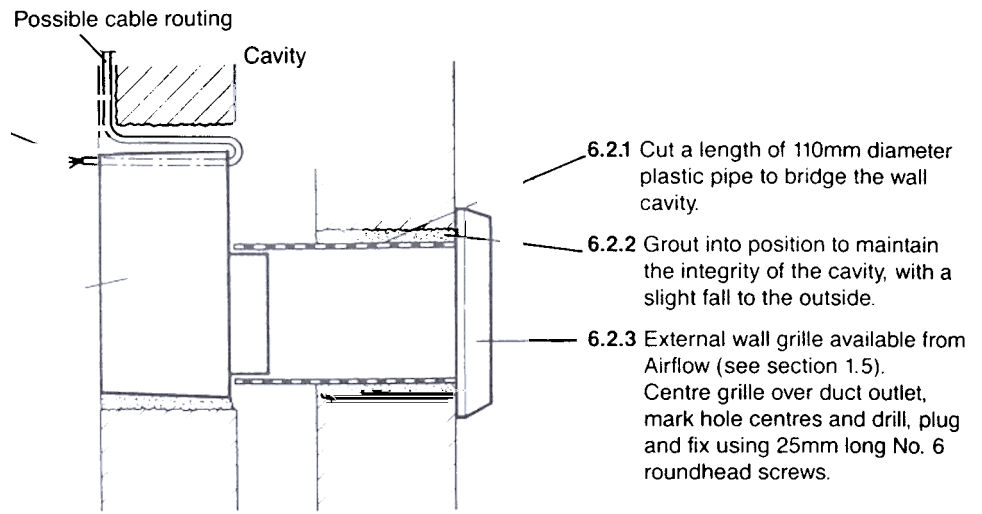


Fig. 6

6.3 When the grout has set, remove the grille and make the electrical connections. (See section 4.4 for wiring diagrams, and section 5.2).

6.4 If a pull cord is fitted to the module pass it through the bezel, hold the bezel up to the casing and fit the grille with the two screws provided, making sure that the cord passes through the slot in the grille.

7 Installation on a ceiling surface

7.1

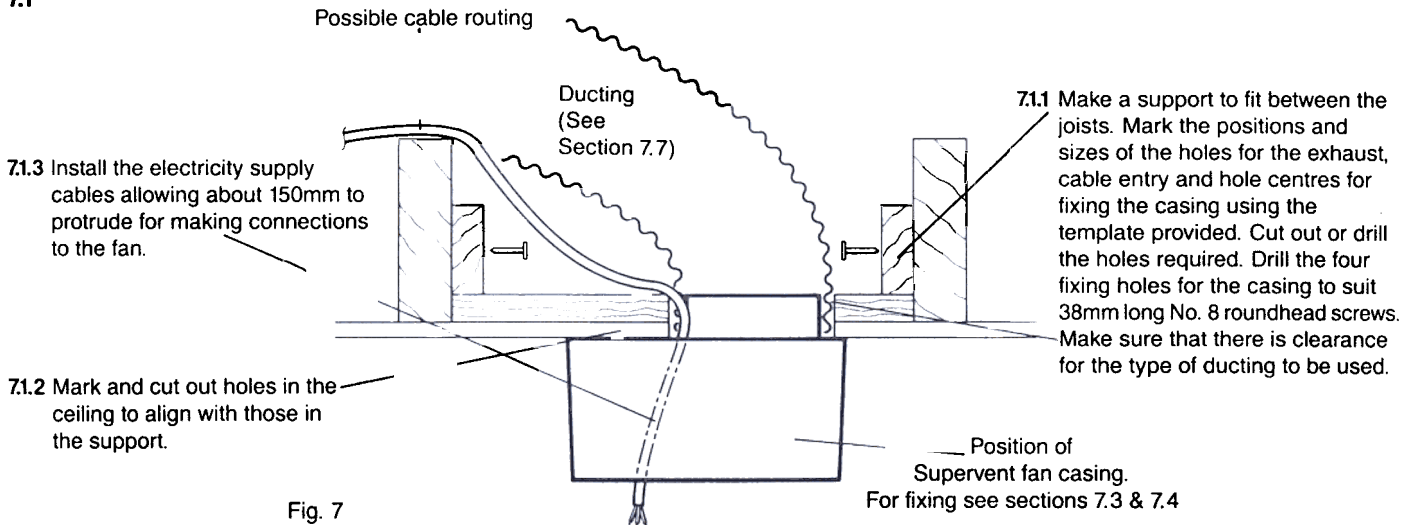


Fig. 7

7.2 Fit four No. 8 x 38mm long screws through the ceiling and into the support with heads about 10mm proud of the surface.

7.3 Feed the electricity supply cables through the entry hole in the back of the case.

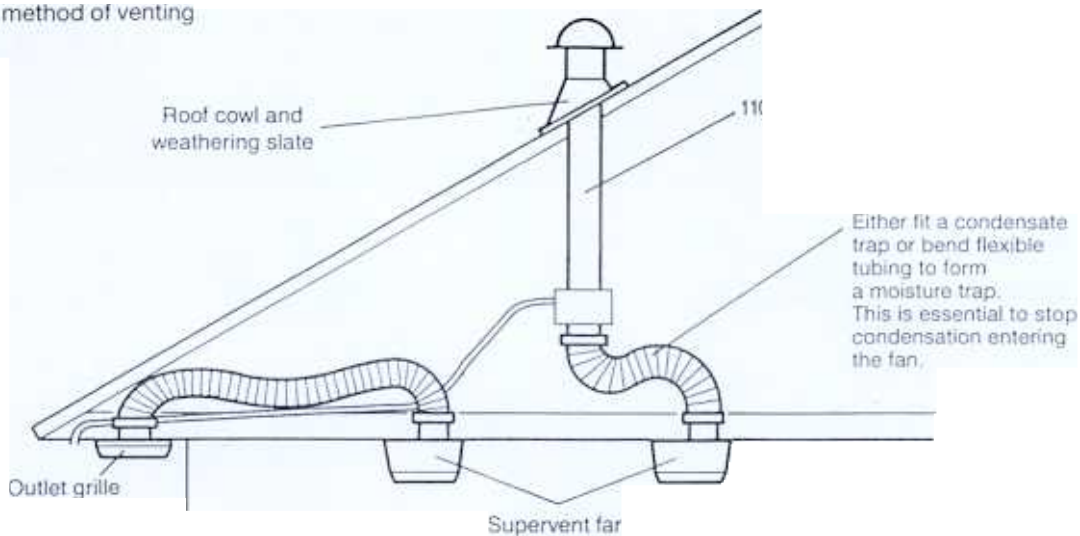
7.4 Position the fan case over the screws using the keyhole slots. Rotate fan case to position required and tighten screws.

7.5 Make electrical connections (see section 4.4. for wiring diagrams and section 5.2).

7.6 Fit the grille (see section 5.3)

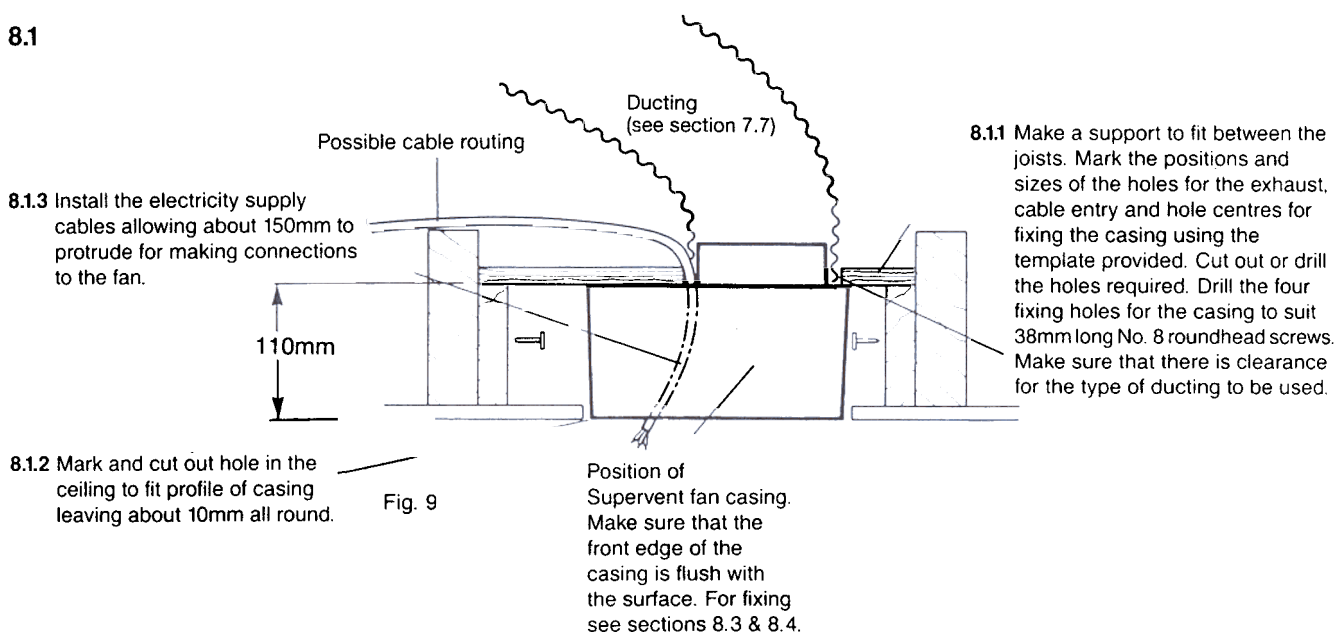
7.7 Install ducting from the exhaust either through the roof using a weathering slate, and roof cowl or under the eaves using an outlet grille (see fig. 8 and section 1.5). Either fit a condensate trap or bend the flexible tubing to form a moisture trap to prevent condensation entering the fan as shown in fig.8.

Fig. 8 Alternative method of venting through the roof



8 Installation recessed in a ceiling

8.1



8.2 Fit four No. 8 x 38mm long screws into the support with heads about 10mm proud of the surface.

8.5 Make electrical connections (see section 4.4 for wiring diagrams and section 5.2).

8.3 Feed the electricity supply cables through the entry holes in the back of the case.

8.6 Fit the grille and bezel (see section 6.4).

8.4 Position the fan case over the screws using the keyhole slots. Rotate fan case to position required and tighten screws.

8.7 Install the ducting as detailed in section 7.7.

9 Testing

9.1 When the installation is complete, switch on the electricity supply.
Note: On all Supervent models, the red indicator will light whenever the fan is running.

operate on high speed 'boost-'. For low speed adjustment see section 9.2.

9.1.1 **Model Supervent SV6 9.1.1.1**
Wired for two speed control (see diagram, section 4.4.1). Switch 'on' SW1 & SW2 to position 1. The fan will operate at low speed. Switch 'on' SW1 & SW2 to position 2. The fan will

9.1.1.2 Wired for separate pull cord operation (see diagram, section 4.4.5). The fan will operate continuously on low speed. Pull the separate pull cord for high speed operation. For low speed adjustment see section 9.2.

Model Supervent SV6P - Wired for integral pull cord switch control (see diagram, section 4.4.4.). The fan will operate continuously on low speed. Pull the integral pull cord for high speed 'boost' operation. For low speed adjustment see section 9.2.

Model Supervent SV6H

Wired for humidistat control only. (See diagram section 4.4.2). The humidistat is factory set to switch at approximately 70% relative humidity. The fan will operate at low speed when humidity exceeds this setting and will continue to do so unless the humidity level falls below the setting or exceeds it by about 10% . The fan will operate at high speed when humidity level exceeds the setting by more than about 10%. The fan will not operate if the humidity level is below the setting point.

Note: that the fan will continue to run for about 6 minutes after the humidity level in the room falls below the humidity setting, to ensure satisfactory ventilation. For humidity setting adjustment see section 9.3.

9.1.3.2 Wired for humidistat control and override. (See diagram, section 4.4.3). Switch SW1 'on', SW2 to 'AUTO'. The fan will operate under humidistat control exactly as in section 9.1.3.1. Switch SW1 'on' and SW2 to position 1, for low speed override. Switch SW1 'on' and SW2 to position 2, for high speed override. Note: that if the humidity level exceeds the high setting switching SW2 will not affect the operation of the fan.

9.1.3.3 Wired for separate pull cord switch control. (See diagram, section 4.4.5). With separate pull cord switch 'off', the fan will operate on humidistat control only, exactly as in section 9.1.3.1. Pull the separate pull cord for high speed override.

Model Supervent SV6HP

Wired for integral pull cord switch control. (See diagram, section 4.4.4.). With integral pull cord switch off the fan will operate on humidistat control only, exactly as in 9.1.3.1 above. Pull the integral pull cord for high speed override.

Model Supervent SV6T.

9.1.5.1 Wired for Door Switch operation (see diagram, section 4.4.7).
Open the door to activate the fan. The fan speed may be adjusted to give the required air flow as detailed in section 9.4. Close the door to activate the timer overrun period. The timer overrun period may be adjusted as detailed in section 9.5.

9.1.5.2 Wired for Remote Humidity Controller operation (see diagram, section 4.4.8).
Adjust the setting of the Remote Humidistat until the Humidistat turns 'on' and operates the fan. The fan speed may be adjusted to give the required air flow as detailed in section 9.4. Adjust the setting of the Remote Humidistat until

the Humidistat turns 'off' which will initiate the timer overrun period. The overrun time may be adjusted as detailed in section 9.5.

9.1.5.3 Wired for Light Switch operation (see diagram, section 4.4.9).
Pull the light switch 'on' to operate the fan. The fan speed may be adjusted to give the required air flow as detailed in section 9.4. Pull the light switch 'off' to initiate the timer overrun period. The overrun time may be adjusted as detailed in section 9.5.

9.2 Low speed adjustment .Models Supervent SV6 and SV6P. The low speed of the fan may be adjusted to suit the user.
Note: that lower fan speed reduces noise levels, but also reduces the volume of air moved by the fan. To adjust low speed: Isolate the fan from the electricity supply. Remove the front grille, turn the adjuster knob on the module clockwise to increase speed, anti-clockwise to decrease speed. Re-assemble the fan, switch on the electricity supply, and check for correct operation.

9.3 Humidity setting adjustment Models Supervent SV6H and SV6HP only. The humidistat has a range of 40% to 95% relative humidity (%RH), but is factory set to approximately 70%. It can be adjusted to switch at a lower or higher %RH to suit the user. To adjust %RH setting: Disconnect the fan from the electricity supply. Remove the front grille. Turn the adjuster knob clockwise to decrease and anti-clockwise to increase the %RH setting. Re-assemble the fan, switch on the electricity supply and check for correct operation.

9.4 Fan speed adjustment - model Supervent SV6T.
The speed of the fan may be adjusted to give the required air flow to suit the user. Isolate the fan from the electricity supply and remove the front grille. Turn the adjuster knob on the module, marked 'speed', clockwise to increase the speed of the fan, and anti-clockwise to decrease the speed. Re-assemble the fan, switch on the electricity supply, and check for correct operation.

9.5 Overrun Timer period setting adjustment - model Supervent SV6T.
The overrun time period may be set within 5 and 30 minutes to suit the user. Isolate the fan from the electricity supply and remove the front grille. Turn the adjuster knob on the module, marked 'run-on time', clockwise to increase the overrun time period, and anti-clockwise to decrease the time. Re-assemble the fan, switch on the electricity supply, and check for correct operation.

9.6 If any Supervent fan fails to operate correctly, isolate it from the electricity supply, and check that all electrical connections have been properly made. Check the fuse. Switch on the electricity supply and test again. If the fan still fails to operate correctly do not tamper with it. Contact your installer or Airflow service Department on (01494) 525252.

10 User Information

- 10.1 Guarantee.** Airflow products are built to the highest quality standards and should provide you with years of reliable service. In addition to all your legal rights as a purchaser, your Airflow fan is covered by a two year 'no quibble' guarantee from the date of manufacture. If a fault occurs after installation and providing that the fan has been installed according to our recommendations it will be exchanged. To obtain a replacement fan contact your installer or supplier. PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE, AND PASS THEM ON THE NEW OWNER IF THE PROPERTY CHANGES HANDS.
- 10.2 Operation.** If your Airflow fan fails to operate correctly, contact the installer, or failing that, the Airflow Service Department on (~1494) 525252.
- 10.3 Safety.** When installed and used according to these instructions the Supervent range of fans is completely safe. The materials used do not constitute a hazard.
- 10.4 Cleaning.** The exterior of the fan may be cleaned with a dry cloth. The interior of the fan should also be cleaned occasionally. First isolate the fan from the electricity supply and then remove the grille and the fan case half. (see fig 1). The grille may be washed but the interior of the fan and impeller must not come into contact with water. Clean with a soft brush.
- 10.5** The statements and opinions contained in this document are made and expressed in good faith. Whilst every effort has been made to provide reliable information, Airflow Developments Limited do not hold themselves responsible for errors of an editorial or other nature, however caused. Should you require a more detailed specification for a product described herein, please contact our Sales Department. In view of our continuous programme of improvement, we reserve the right to change the specification for any model or item described in this publication.

Fixing holes in
four positions

Cable
entry

Auxiliary inlet
Only required for
two room ventilation

Outlet
Make hole large enough for
pipe or ducting to be fitted
over fan outlet spigot