Installation Instructions

EL100, EL150 & EL150SCPC Axial Fans

Bathroom, Toilets, Utility Rooms and Kitchens

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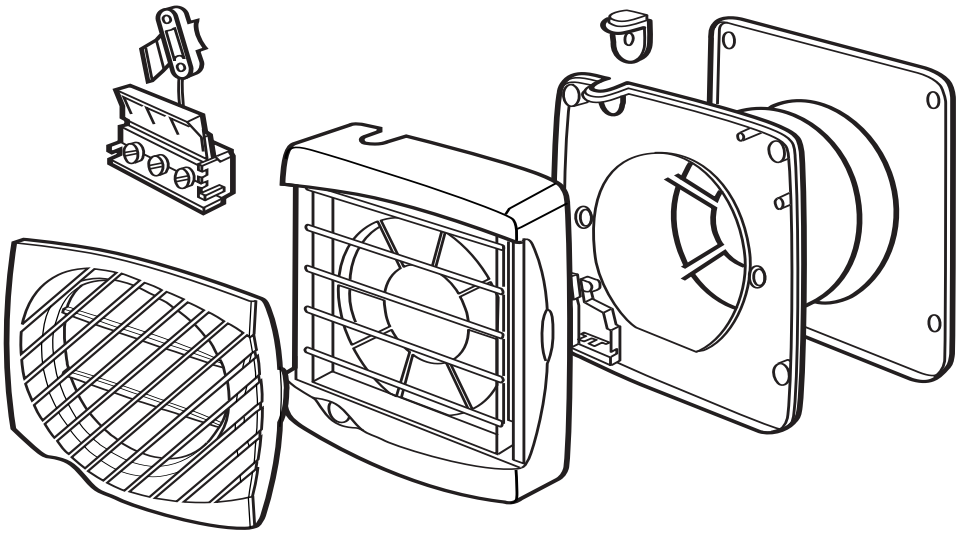


Read all instructions before commencing installations

NOTES:

- Where an open-flued oil or gas- fuelled appliance is installed in the kitchen, extract ventilation can cause the spillage of flue gases. Care must be taken to ensure ventilation is reduced as appropriate, as set out in the building regulations. The guide to the regulations suggests that the reduced provision should be an extract rate 20 l/s (72 m^3/h) maximum. Kitchens with solid-fuel appliances should not have extract fans fitted.
- The fans should not be sited where it would be subject to a direct source of heat.
- For window mounting do not install fans in opening windows. Use the correct thickness of glass for the size of window (at least 4 mm thick) if in doubt, contact a glazier.
- A clearance of 75 mm to be allowed on both sides of fan for the removal of the internal grille.

Operation

The Airvac Elite range of fans are single and dual speed axial flow extract fans designed to exceed Building Regulation requirements for bathroom, toilet, kitchen or utility room ventilation.

Types of controls and operation as follows:

TYPE EL100, EL150
Operation by light switch, remote switch or remote sensor.

TYPE 'PC'
Operation by pull cord.

TYPE 'TR'
Operation by light switch or remote switch.

When wired into room light or remote switch the fan will operate whilst the switch is on. Switching off will activate the overrun timer.

TYPE 'HTR'
Automatic operation by light switch or remote switch.

The fans integral humidity sensor will operate the fan whilst the RH exceeds the pre-set activation point, When the RH is reduced back to the activation point the linked overrun timer continues to operate the fan for the pre-set time period to ensure the RH level is further reduced within the room to prevent 'hunting'.

When wired into room light or remote switch the fan will operate whilst the switch is on. Switching off will activate the overrun timer.

TYPE 'MA'
Dual speed, automatic operation to slow speed and manual operation to normal speed.

Integral humidistat operates fan to slow speed whilst the RH (relative humidity) exceeds pre-set activation point. When RH is reduced to the pre-set level the linked timer continues fan at slow speed for the nominated overrun period, further lowering the humidity level.

Manual operation by remote switch/light switch operates the fan at normal speed.

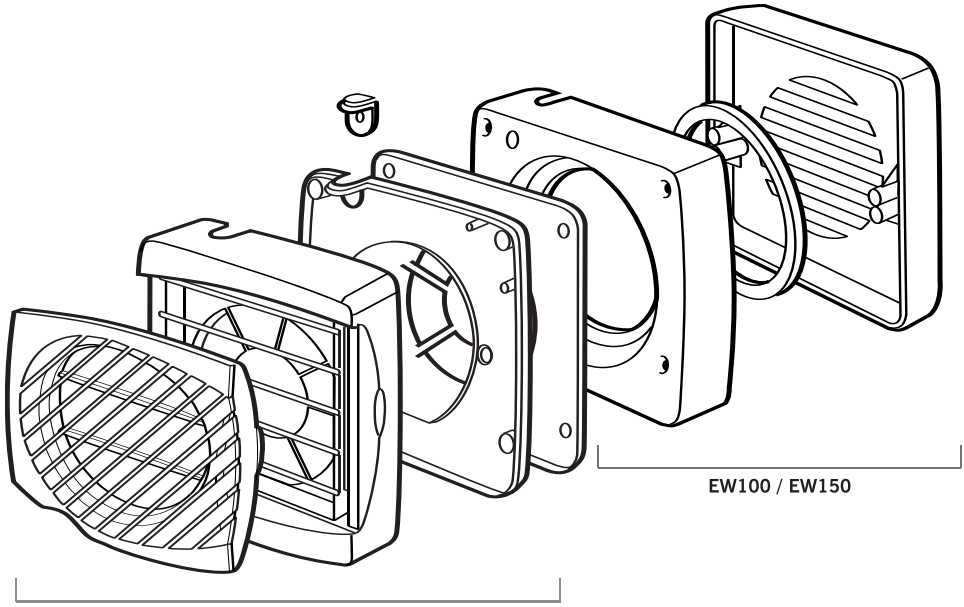
Humidistat adjustable 50 – 90% RH.
Adjustable overrun timer (up to 30mins).

TYPE 'SCPC'
Operation by pullcord or remote switch.

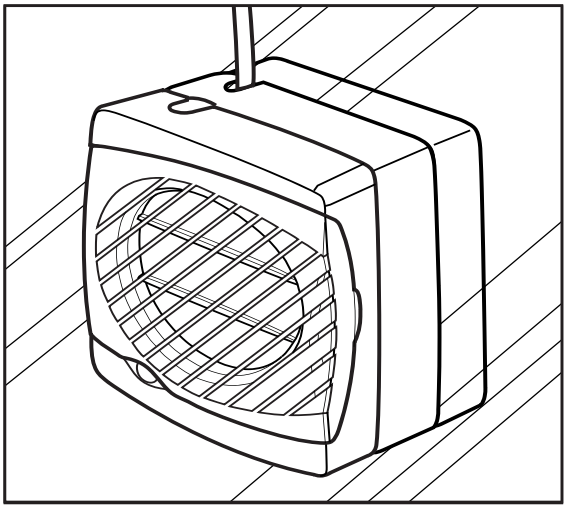
Single speed operation at pre-set rate for use where open flued gas appliances are present. At installation the variable speed control is set and sealed to prevent spillage from gas appliance.

- See Sensor / Timer Adjustments section for further details.
- **The Airvac Elite range of fans are fitted with electrical operated anti-backdraught shutters which have a time delay to open or close.**

Window Mounting



- For window mounting do not install fans in opening windows. Use the correct thickness of glass for the size of window (at least 4 mm thick) if in doubt, contact a glazier.
- The components supplied are suitable for the installation of fans in windows from 4 mm single glaze to 28 mm thick double-glazing.



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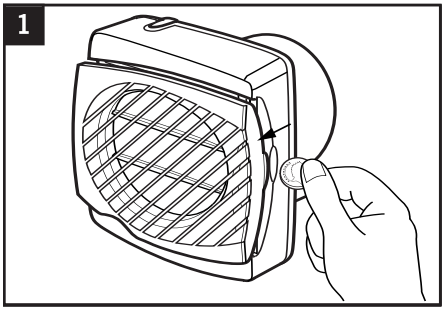

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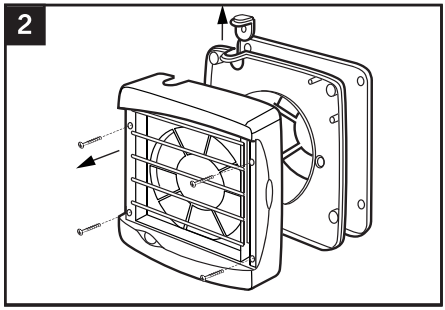

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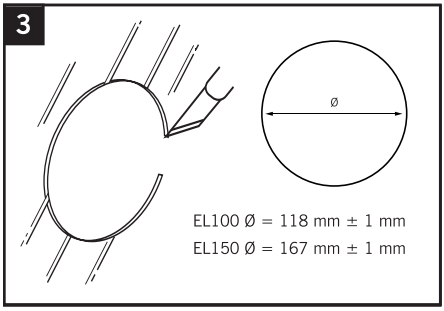

EL100 Ø = 118 mm ± 1 mm
EL150 Ø = 167 mm ± 1 mm

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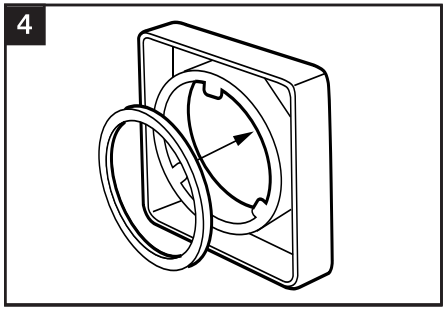

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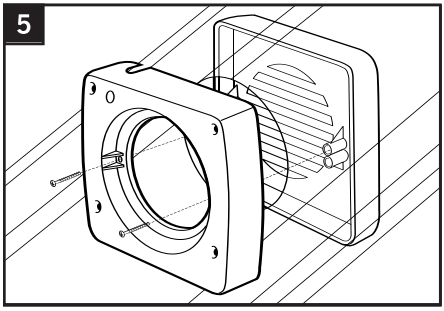

25 mm long screws – Single glazing
38 mm long screws – 20 mm & 24 mm double glazing
50 mm long screws – 28 mm double glazing

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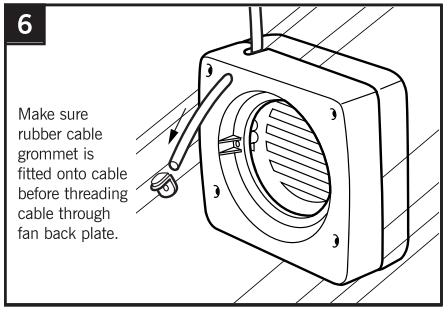
Make sure rubber cable grommet is fitted onto cable before threading cable through fan back plate.



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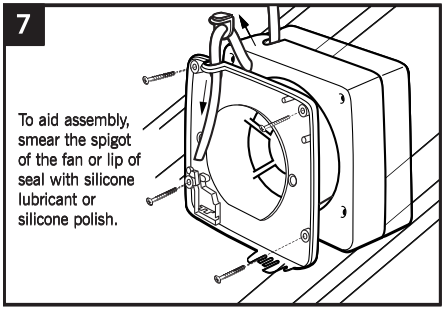
To aid assembly, smear the spigot of the fan or lip of seal with silicone lubricant or silicone polish.



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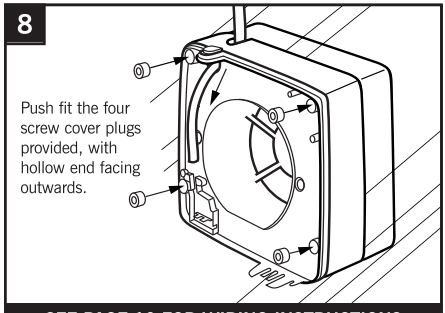
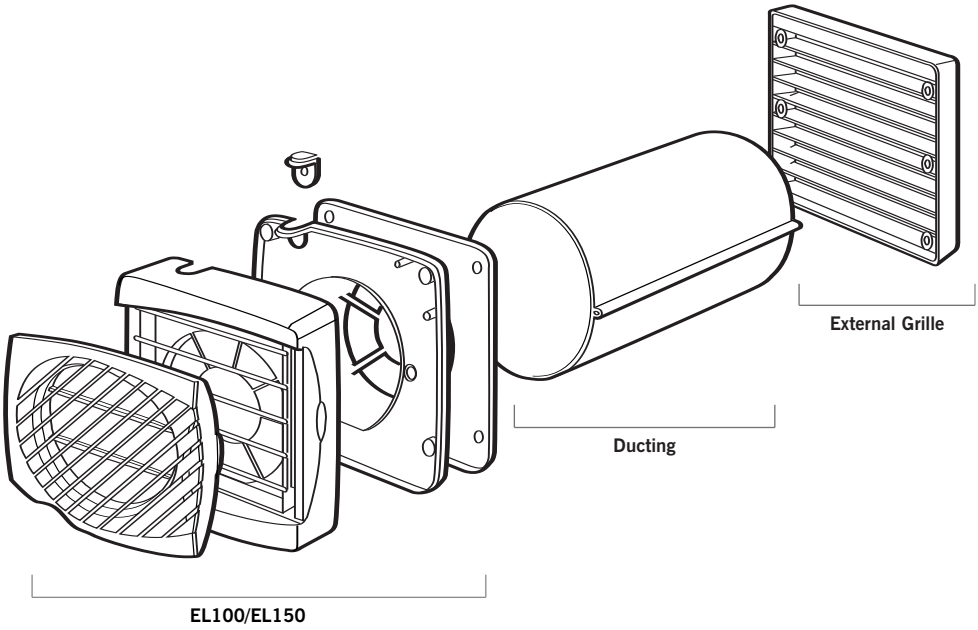
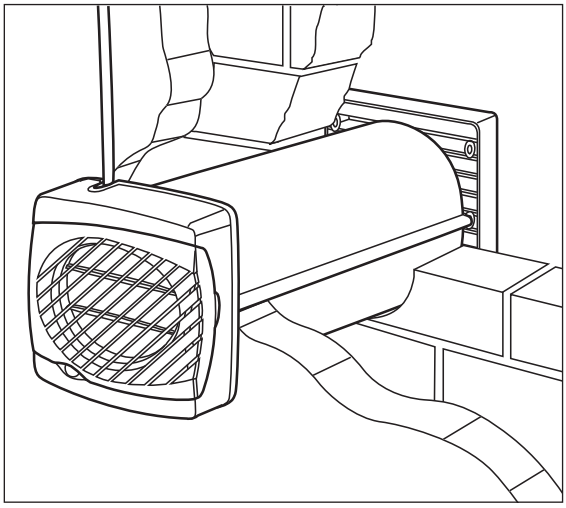
Push fit the four screw cover plugs provided, with hollow end facing outwards.



SEE PAGE 10 FOR WIRING INSTRUCTIONS

Wall Mounting





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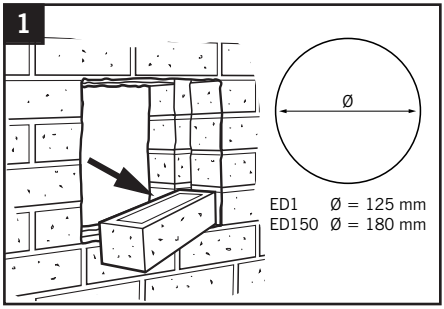

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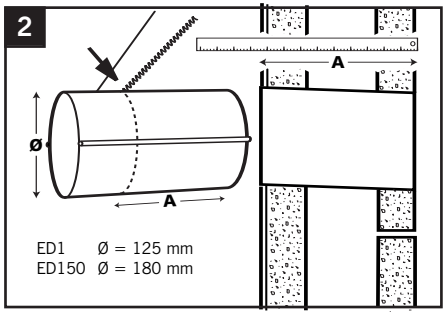

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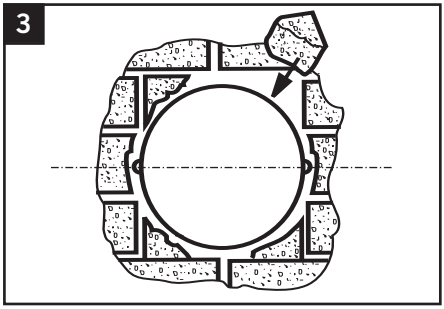

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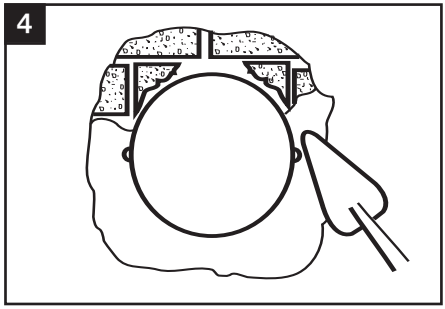

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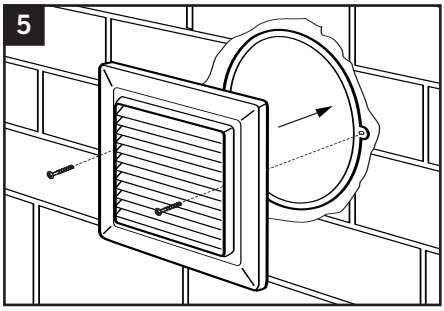

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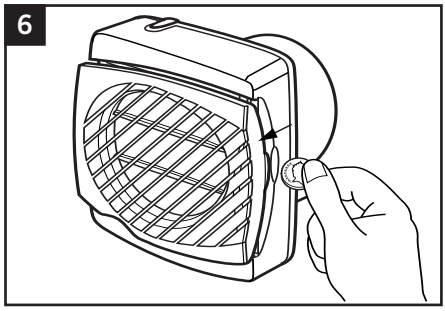

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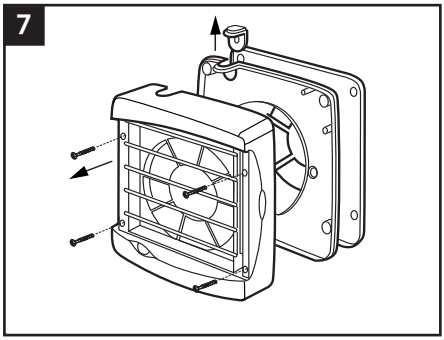

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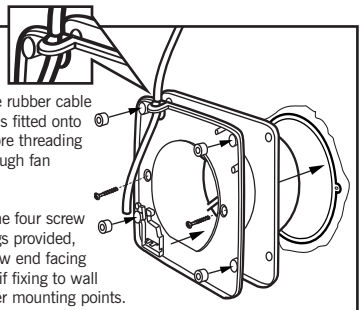
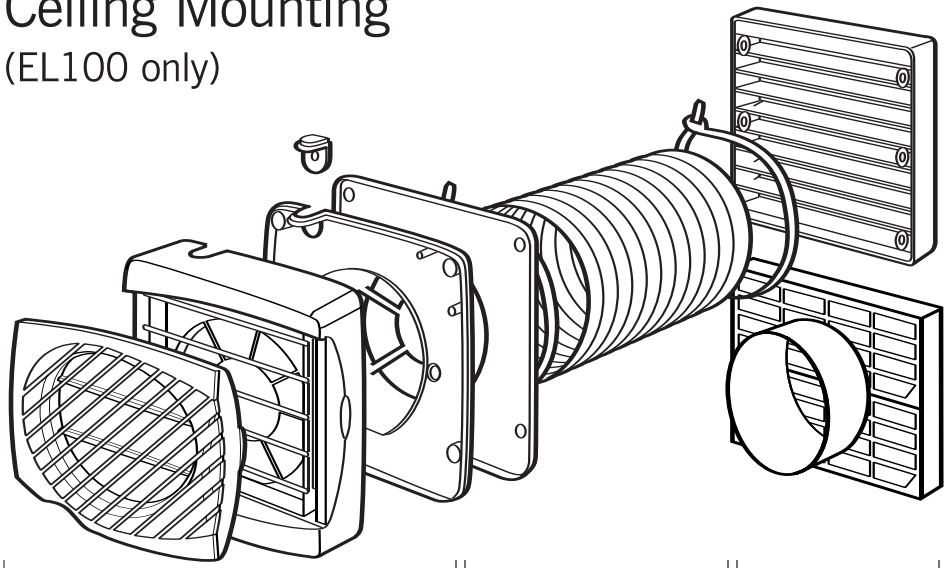


Make sure rubber cable grommet is fitted onto cable before threading cable through fan backplate.

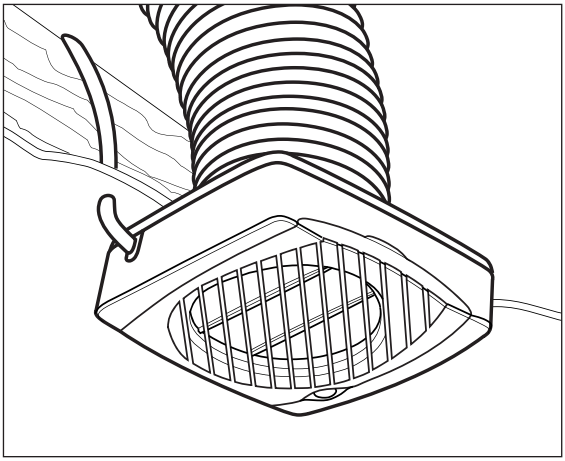
Push fit the four screw cover plugs provided, with hollow end facing outwards if fixing to wall using outer mounting points.

SEE PAGE 10 FOR WIRING INSTRUCTIONS

Ceiling Mounting
(EL100 only)



- Cut an opening through the ceiling for the fan and electrical cable.
- Feed cable through ceiling then through back face of rubber sealing grommet in fan back plate. Screw back plate to ceiling using No. 6 screws.
- Fit duct (max length 2.5m) and external grille/ baffle for soffit or wall application, making sure duct has a slight fall to exterior.



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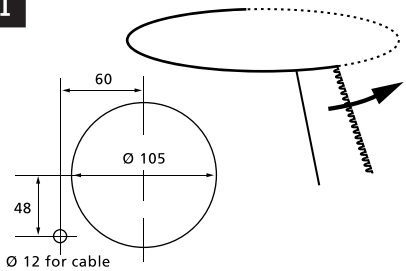

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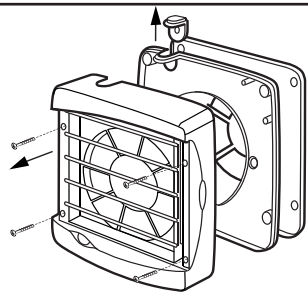

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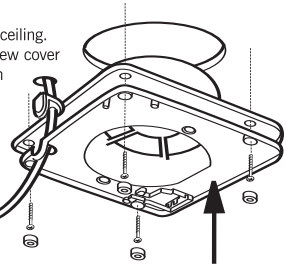
Make sure rubber cable grommet is fitted onto cable before threading cable through back plate

4

Screw backplate to ceiling. Push fit the four screw cover plugs provided, with hollow end facing outwards if fixing to wall using outer mounting points.



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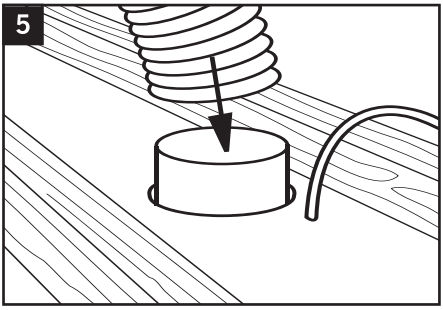

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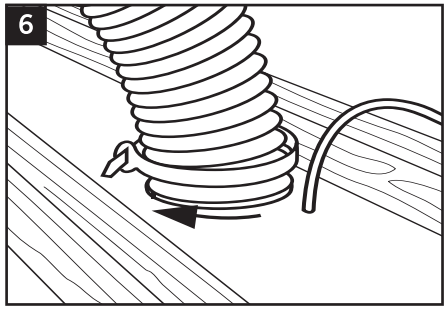

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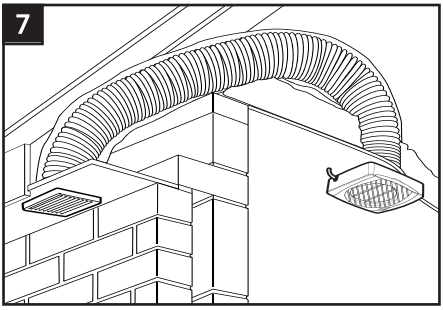

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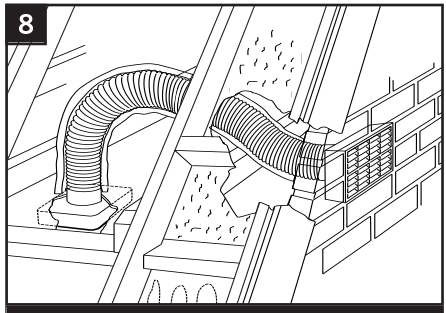
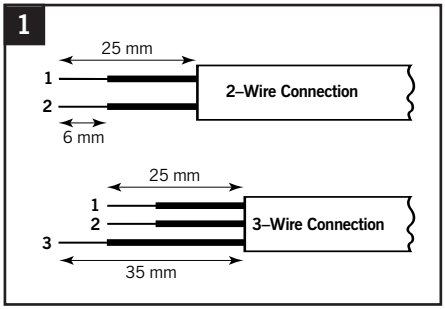
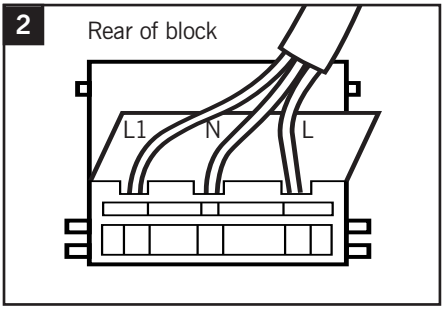
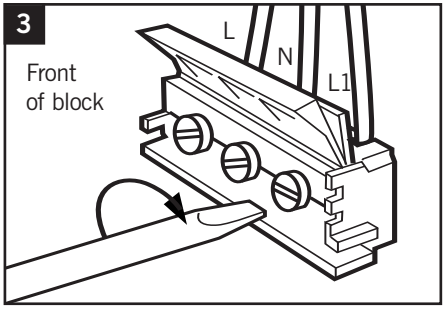


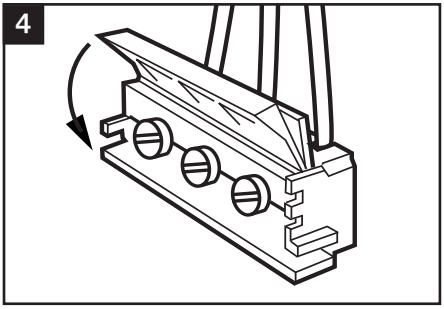
SEE PAGE 10 FOR WIRING INSTRUCTIONS

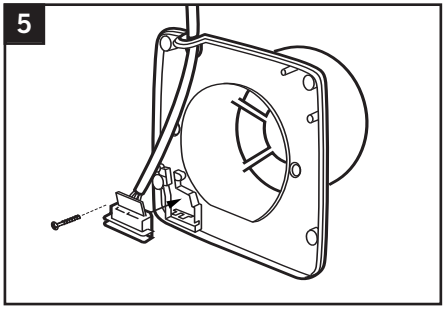
Wiring Details for Fan Isolator Only

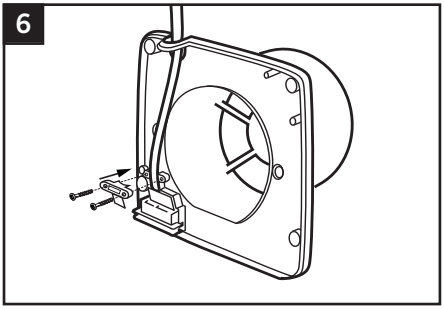


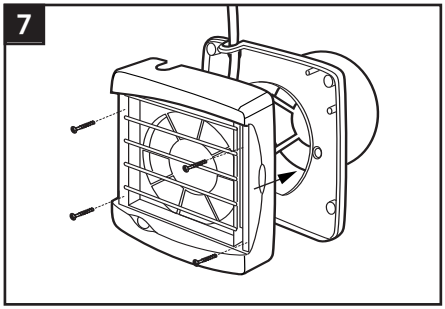


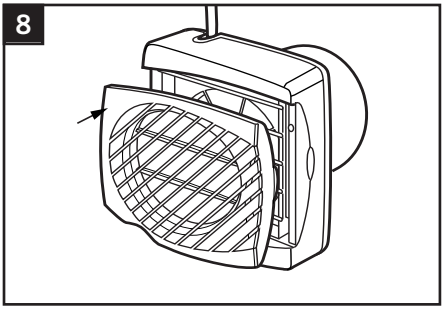












Wiring Diagrams

The electrical connections must be carried out by a qualified electrical engineer in accordance with Part P of the Building Regulations & IEE Wiring Regulations.

WARNING: Isolate electricity supply before starting work.

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

For single units use 3 amp fuse.

When supplied from a 5 amp lighting circuit no local fuse is required.

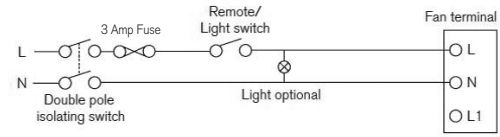
Specification: ⧈ 230 V~50 Hz.

Refer to fan rating label for watts consumption.

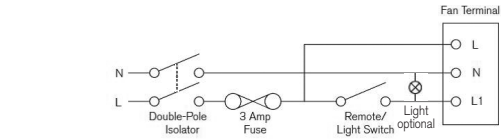
Cable Sizes: 2 or 3 core.
0.75 mm^2 and 1.00 mm^2 flexible.

INSTALLATION IN AREAS REQUIRING IPX4 PROTECTION:

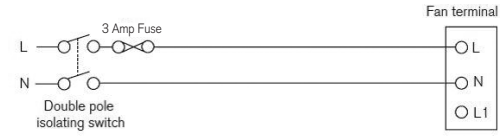
Mains cable section should be round, with an outside diameter between 5.5 mm to 8.5 mm. This will ensure sealing at the cable entry grommet.



External wiring for remote switch / light switch:
Models: EL100, EL150 & EL150SCPC

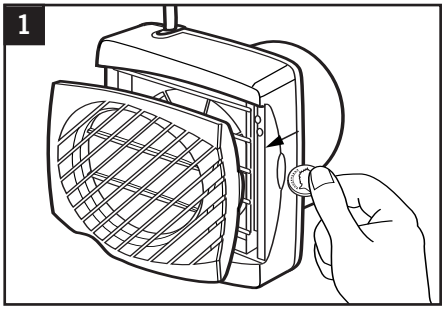


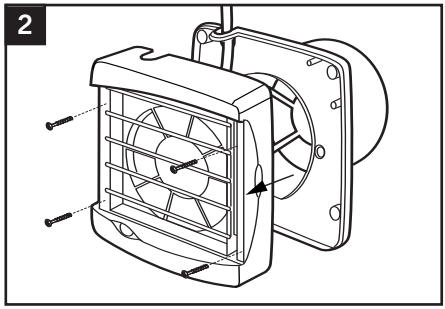
External wiring for operation with room light:
Models: TR, HTR & MA

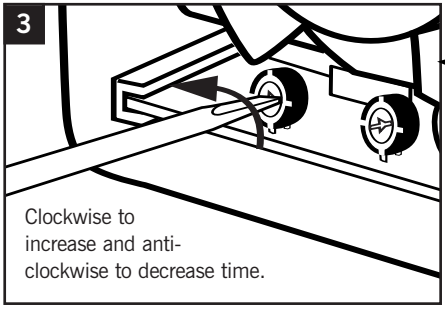


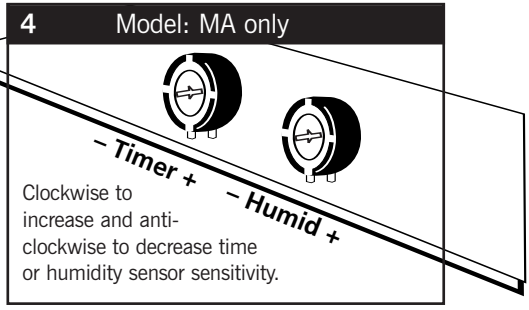
External wiring: **Models: PC & SCPC**

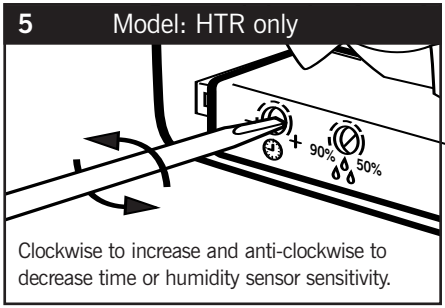
Sensor/Timer Adjustments

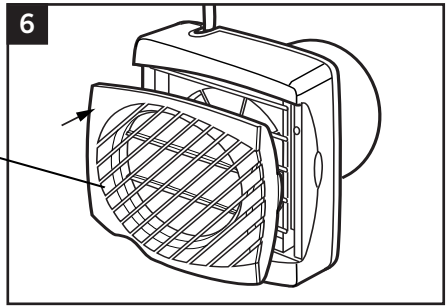












Model SCPC adjustments, see additional information supplied with fan.

To clean or service fan

- Remove grille: Lever off at side using coin or screwdriver.
- Undo screws (exposed by removal of grille), and pull the fan away from its back plate.

The fan may now be cleaned using a brush or damp cloth. DO NOT IMMERSE IN WATER.

WARNING: On no account should the interior of the fan be cleaned until the unit has been removed from its back plate or isolated from the mains.

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