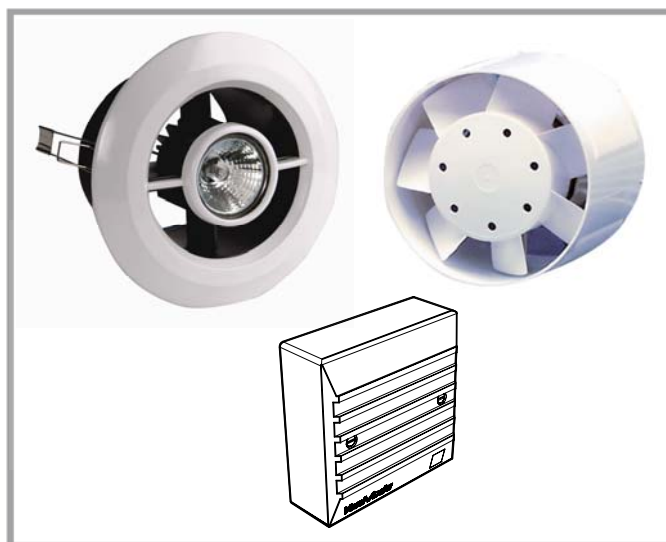


Vent-A-Light

Lo-Carbon RANGE

In-Line Fan and light Kit

Installation and Wiring Instructions



Stock Ref. N°

Lo-Carbon Vent-A-Light (Standard)
441423

Lo-Carbon Vent-A-Light (Timer)
441424

FAN UNITS 12V DC SELV (CLASS III)
CONTROLLERS 220-240V 50Hz MAINS SUPPLY (CLASS II)
WITH 12V DC SELV OUTPUT (For both fan & light assembly)

Vent-Axia®

PLEASE READ INSTRUCTIONS IN CONJUNCTION WITH THE ILLUSTRATIONS.
PLEASE SAVE THESE INSTRUCTIONS

IP44



Installation and Wiring Instructions for the Lo-Carbon Vent-a-Light Kit.



IMPORTANT: READ THESE INSTRUCTIONS BEFORE COMMENCING THE INSTALLATION

DO NOT install this product in areas where the following may be present or occur:

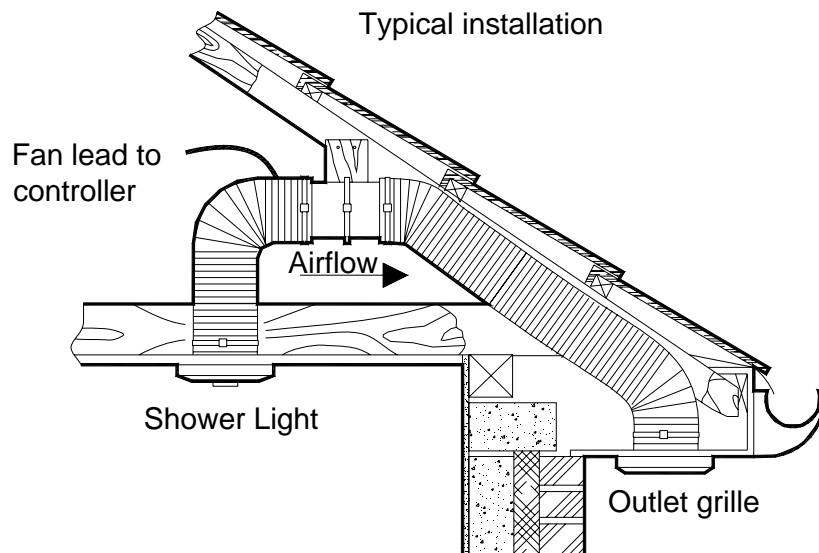
- Excessive oil or a grease laden atmosphere.
- Corrosive or flammable gases, liquids or vapours.
- Ambient temperatures higher than 40°C or less than -5°C.
- Possible obstructions which would hinder the access or removal of the Fan.
- Sudden ductwork bends or transformations close to the Fan.

SAFETY AND GUIDANCE NOTES

- A.** All wiring to be in accordance with the current I.E.E. Regulations, or the appropriate standards of your country and **MUST** be installed by a suitably qualified person.
- B.** The Fan should be provided with a local double pole isolator switch having a contact separation of at least 3mm.
- C.** The control unit is intended for permanent connection to the fixed electrical supply.
- D.** The controller is only suitable for use with one fan unit.
- E.** The fan is only suitable for use with the safety extra low voltage DC transformer controller supplied. The unit **MUST NOT** be connected directly to the mains voltage electrical supply.
- F.** Ensure that the mains supply (Voltage, Frequency, and Phase) complies with the rating label.
- G.** The transformer controller requires free air circulation and must not be recessed into the mounting surface or covered with any insulating material that might be in a ceiling or roof void.
- H.** The Fan should only be used in conjunction with the appropriate Vent-Axia products.
- I.** It is recommended that the connection to the fan connector terminals is made with flexible cable.
- J.** When the Fan is used to remove air from a room containing a fuel-burning appliance, ensure that the air replacement is adequate for both the fan and the fuel-burning appliance.
- K.** The Fan should not be used where it is liable to be subject to direct water spray for prolonged periods of time.
- L.** Where ducted Fans are used to handle moisture-laden air, a condensation trap should be fitted. Horizontal ducts should be arranged to slope slightly downwards away from the Fan.
- M.** This appliance is not intended for use by young children or infirm persons without supervision.
- N.** Young children should be supervised to ensure that they do not play with the appliance.
- O.** The luminaire shall, under no circumstance, be covered by insulating matting or similar material.

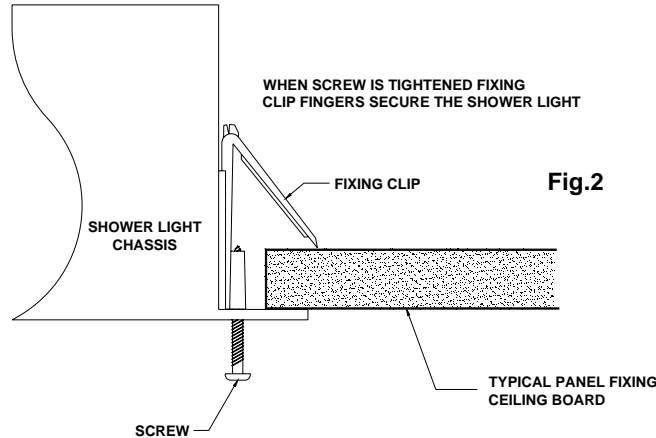
A INSTALLATION.

The unit is designed to be installed in 100mm ducting. The ducting run should not exceed 3m. The flexible ducting should be fully extended to obtain the best results. Position the fan at the highest point on the system with both ducting runs sloping downwards from this point. In circumstances where an excessive amount of moisture is present in the air then a condensation trap should be installed. Before fitting the duct to the inlet side of the fan pierce a hole in the TOP of the duct approx. 40mm from the fan. The cable supplying power to the fan will pass through this. Secure the duct to the fan once wiring is complete. Seal around this "wiring hole" as necessary.



INSTALLATION OF THE SHOWER LIGHT

Cut a 102mm hole in the ceiling between the joists, once the shower Light position has been determined. Hold the body of the shower light against the ceiling and mark the four screw holes (alternatively use the fixing clips to secure the fan in the ceiling). See Fig 2 below.



LIGHTING TRANSFORMER - WIRING DETAIL

Connect the transformer to the shower light and to a suitable power supply, ideally the switched live of the extractor fan or bathroom lighting circuit. (see Fig.4 for timer model, or for standard model see Fig.3)

IMPORTANT:-The shower light must not work independently of the fan. Where the installation does not permit connecting the LV leads from the lamp housing directly into the remote transformer an extended lead can be used. The lead should be a minimum of 1mm sq in section connections should be made within a standard BS6220 5 amp junction box.

Once the wiring to the lamp is complete the lamp bezel white or chrome can be fitted by locating the 3 lugs, and twisting anti-clockwise.

Never connect mains supply direct to the class III shower light

Power input – 12 volts AC 50VA

B. WIRING.



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING THE INSTALLATION / OR MAINTENANCE.

NOTE: The Controller MUST be surface mounted to allow air to freely circulate around the unit. When installed in a loft void it MUST NOT be enclosed or covered with insulation.

1. Select and follow the appropriate wiring diagram (Fig. 3-4).
2. Check all connections have been made correctly and ensure all terminal connections and cable clamps are securely fastened.
3. The cable entry must be made using the cable grommet.
4. Ensure the impeller rotates and is free from obstructions.

Fig. 3.

Lo-Carbon Vent-A-Light Standard Model.

Select the wiring configuration required for the Toilet or Bathroom.

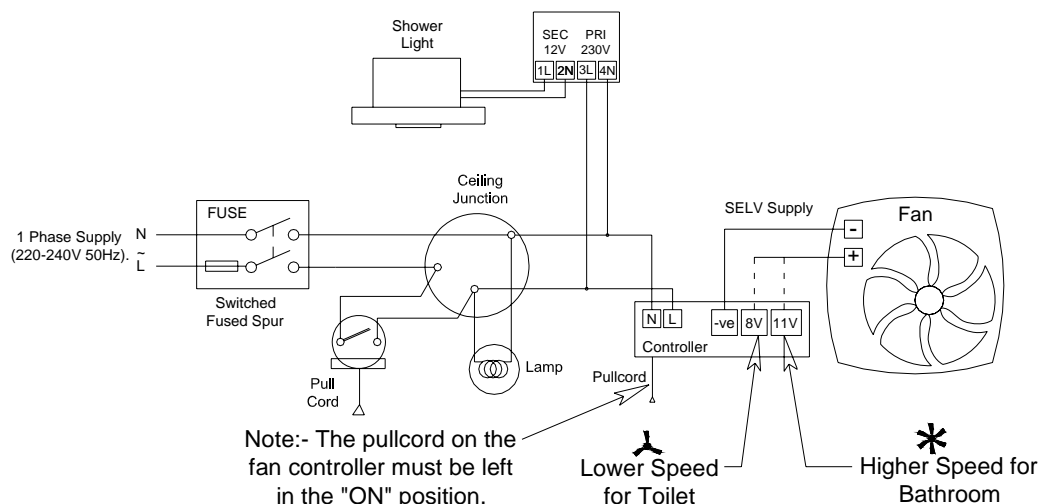
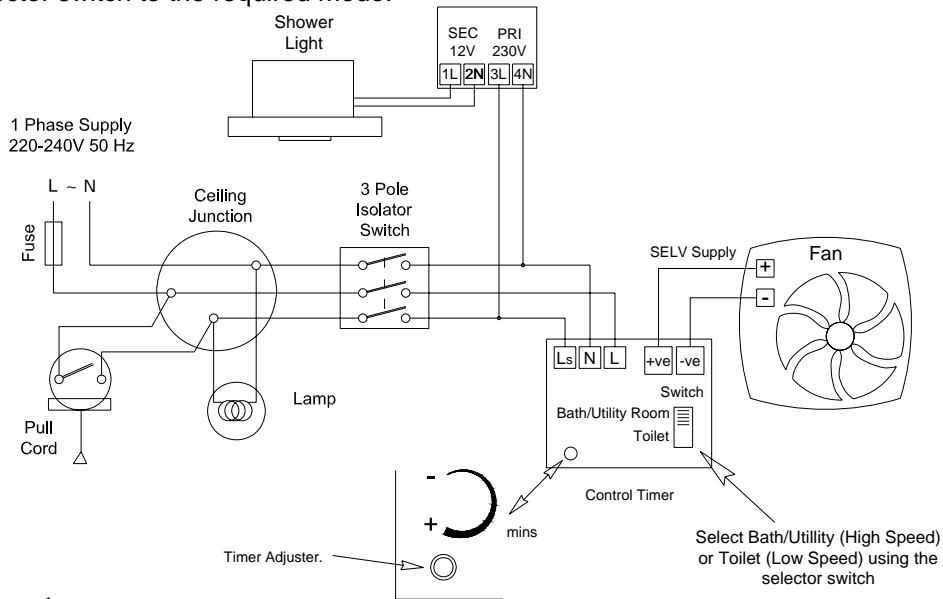


Fig. 4.
Lo-carbon Vent-A-Light T
Timer Model.

Switch the selector switch to the required mode.



Timer Adjustment.

The overrun time period is factory set to 15 minutes. The overrun time period may be adjusted from 5-25 minutes, by altering the adjuster on the back of the Control Timer.

Before adjusting the timer, switch off the Mains Supply.

1. Remove the Controller Unit.
2. To REDUCE the operating time, turn the adjuster ANTI-CLOCKWISE on the back of the Controller.
3. To INCREASE the operating time, turn the adjuster CLOCKWISE on the back of the Controller.
4. Replace the front of the Control Timer.
5. Reconnect the mains supply.

C. SERVICING AND MAINTENANCE.



WARNING: THE FAN AND ANCILLARY CONTROL EQUIPMENT MUST BE ISOLATED FROM THE POWER SUPPLY DURING MAINTENANCE.

BULB REPLACEMENT

Disconnect the power supply, and be sure that the lamp has fully cooled before removing or replacing.
 Replace any cracked or damaged lamp
 Remove the faulty lamp by pulling it out the lamp housing.
 Replace new lamp by aligning the 2 lamp pins with the lamp holder in the lamp housing and then pushing it into position.
Use only a 12V 35W Dichroic Halogen Lamp, Type MRI6

MAINTENANCE

Disconnect the power supply
 The shower light bezel can be removed and cleaned with a cloth.
 The shower light housing and inline fan can be cleaned with a cloth.
 It is recommended to check the electrical connections annually.

The Lo-Carbon fan has sealed for life bearings, which do not require lubrication.



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For details of the warranty and returns procedure please refer to www.vent-axia.com or write to Vent-Axia Ltd, Fleming Way, Crawley, RH10 9YX