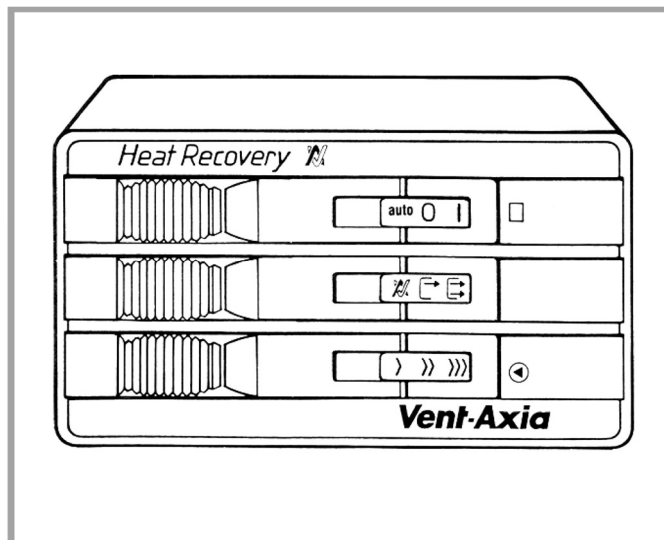


Heat Recovery Ventilation Controller

Installation and Wiring Instructions



Stock Ref. N°

W14301010

Vent-Axia®

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

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Fitting & Wiring Instructions Heat Recovery Controller

IMPORTANT

PLEASE READ ALL INSTRUCTIONS CAREFULLY **BEFORE** COMMENCING INSTALLATION

1. It is recommended that this controller is installed by a qualified electrician.
2. The installation and wiring must comply with current IEE Regulations, BS7671, or the appropriate standards in your country.
3. This controller is not suitable for use in rooms containing a fixed bath or shower.
4. When used with heat recovery ventilation unit installed in a room containing a fuel burning appliance, ensure that air replacement is adequate for both the fan(s) and the fuel burning appliance.
5. This controller has a maximum rating of 600W @ 20°C (400W @ 40°C) on a 220-240V ~ 50Hz supply. A maximum of 2 Vent-Axia heat recovery ventilation units may be connected to one controller.
6. This equipment **MUST** be earthed

Description

This controller has been designed specifically for use with Vent-Axia heat recovery ventilation units but may also be used to control other equivalent loads up to the stated rating. Facilities include on/off, heat recovery intake and extract, high and low volume extract, variable speed control and automatic control via electro-mechanical ON/OFF switched sensor, e.g thermostat, timer relay, etc

Location

The controller may be sited in any convenient position that is unaffected by direct heat sources such as radiators, boilers, etc. Do not site the controller where it may be subject to water spray, condensation, damp or wet conditions. Ensure the controller is installed in a ventilated area. Ensure that the enclosure is securely mounted using appropriate fixing screws or bolts. If the enclosure is mounted on a metal surface or partition, Ensure that the surface is earthed.

Fitting

Unscrew the two screws and remove the lid/switch from the mounting box. The mounting box may be fixed to most single or double gang recessed metal outlet boxes or alternatively fixed direct to the wall for surface cable entry. When using surface wiring that is not being contained in conduit, the supply and

output cables must be securely clipped to the mounting surface, close to the controller.

Wiring

WARNING: THIS APPLIANCE MUST BE EARTHED

Ensure that mains supply is isolated before proceeding with the wiring. The installation must be provided with a double-pole isolator switch, having a contact separation of not less than 3mm, and be protected with a 5 amp fuse (U.K).

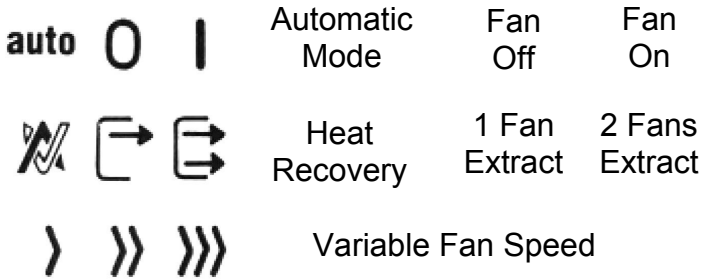
For AUTOMATIC REMOTE SWITCHING (if required) see also relevant sensor wiring instructions.

Note:

Only mechanical or electro-mechanical switched sensors should be used. Connect sensor switch leads to L4 and L5 in the connector block 2. When slide switch is in auto position marked **auto** automatic switching from sensor/switch (if fitted) will be obtained. Ensure sensor switch is adequately rated for the switched load.

Note:

Where more than one heat recovery ventilation unit is to be used, the additional unit must be wired in parallel using suitable junction boxes (not supplied). Replace the lid/switch into the mounting box. Do not over-tighten the captive screws.



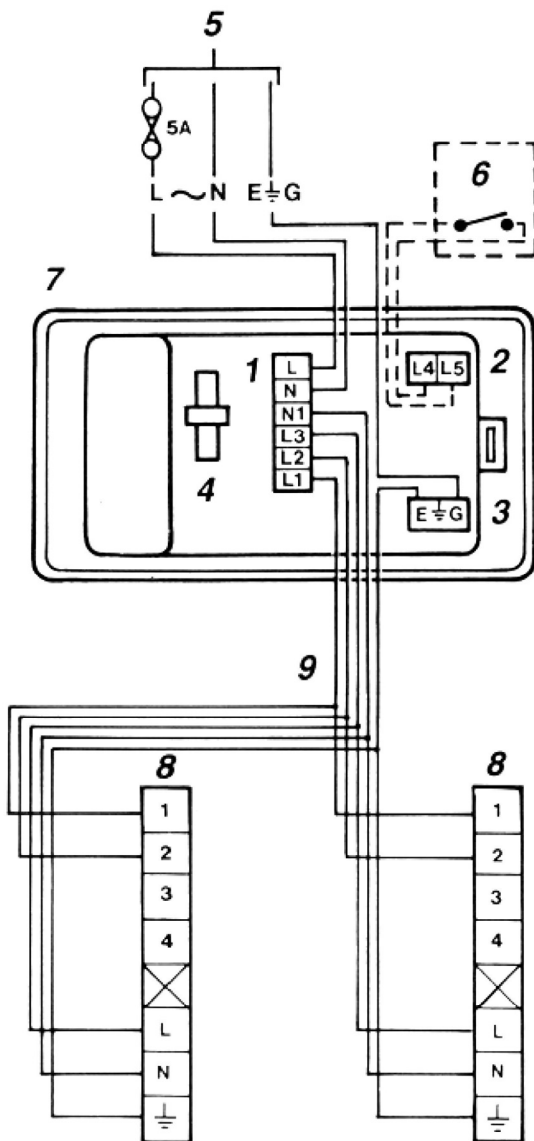
MINIMUM SPEED ADJUSTMENT

The control unit has been factory set to Vent-Axia's recommended minimum speed.

A minimum speed adjuster is located on the front of the controller and is exposed when the bottom slide bar is moved fully to the left. This adjuster is used to vary the lowest speed setting if the fans do not revolve when the controller is set to minimum speed.

Using a small screwdriver, turn the adjuster clockwise to increase the minimum speed setting.

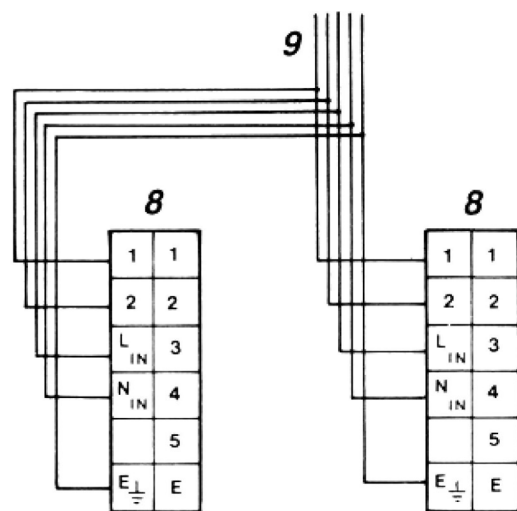
After any adjustment, make sure the fan will start from a stationary condition by using the ON/OFF switch with the variable speed slide knob set fully to the left (minimum speed).



Current heat recovery ventilation unit terminal blocks as fitted to HR500 MKIII and HR500X units
Refs 14101010B & 14101070

For on/off control by remote thermostat, humidistat, timer etc., use terminals L4 and L5. Units will operate at present speed/mode on make

1. Main connector block
2. Sensor connector block
3. Earth connector block
4. Fuse (5 AMP)
5. Mains supply
6. Sensor switch
7. Heat recovery controller
8. Heat recovery unit terminal block
9. 5-core 0.75mm² cable



Earlier heat recovery ventilation unit terminal blocks as fitted to HR500 MKI and MKII units
Refs 14101010 & 14101010A

The *Vent-Axia*® Guarantee

Applicable only to products installed and used in the United Kingdom. For details of guarantee outside the United Kingdom contact your local supplier.

Vent-Axia guarantees its products for two years from date of purchase against faulty material or workmanship. In the event of any part being found to be defective, the product will be repaired, or at the Company's option replaced, without charge, provided that the product:-

- Has been installed and used in accordance with the instructions given with each unit.
- Has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit).
- Has not been subjected to misuse, neglect or damage.
- Has not been modified or repaired by any person not authorised by the company.

IF CLAIMING UNDER TERMS OF GUARANTEE

Please return the complete product, carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit. Please ensure that it is adequately packed and accompanied by a letter clearly marked "Guarantee Claim" stating the nature of the fault and providing evidence of date and source of purchase.

The guarantee is offered to you as an extra benefit, and does not effect your legal rights

***Vent-Axia*®**

Head Office: Fleming Way, Crawley, West Sussex, RH10 9YX.

UK NATIONAL CALL CENTRE, Newton Road, Crawley, West Sussex, RH10 9JA

SALES ENQUIRIES: Tel: 0844 8560590 Fax: 01293 565169

TECHNICAL SUPPORT: Tel: 0844 8560594 Fax: 01293 539209

Web:-www.vent-axia.com Email:- info@vent-axia.com

As part of the policy of continuous product improvement Vent-Axia reserves the right to alter specifications without notice.