

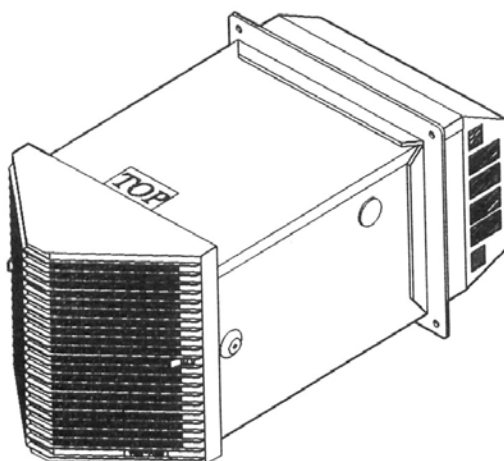
Vent-Axia®

HR200WK HEAT RECOVERY VENTILATION UNIT

INSTALLATION AND MAINTENANCE INSTRUCTIONS

Through wall mounting, three speed heat recovery extract and intake unit for kitchens and utility rooms.

Stock Ref: 141 20 020



- Single Room Heat Recovery Unit
- Easy to install
- Trickle, normal and boost ventilation modes
- Extremely quiet trickle ventilation mode

220-240V/1/50Hz 130W

Installer:
Address:

.....
.....

Telephone:

Date:



PLEASE LEAVE THESE INSTRUCTIONS WITH THE END USER

VENT-AXIA HR200WK - HEAT RECOVERY VENTILATION UNIT

INSTALLATION AND MAINTENANCE INSTRUCTIONS

Read the following instructions fully in conjunction with the illustrations before commencing installation.

PRODUCT DESCRIPTION

The HR200WK is a through the wall mounting heat recovery ventilation unit for use in kitchens and utility rooms. It is designed for installation in external walls having a thickness up to 335 mm.

The units twin impeller and heat exchanger arrangement simultaneously supplies and extracts air while transferring heat from the stale exhaust airflow to the fresh intake airflow. This provides up to 75% heat recovery from the stale extracted air.

The unit incorporates electrical connections which enable it to be operated at each or any combination of three speeds thereby providing trickle, normal and boost ventilation rates of 60m³/h, 110m³/h and 220m³/h. Separation of the supply and extract airflows is maintained throughout the unit.

The overall electrical power consumption of the unit is 20 watts at trickle speed, 60 watts at normal speed and 130 watts at boost speed.

The unit's motor is fitted with maintenance free bearings and thermal overload protection, which in the event of a fault causing the motor to overheat will cut off the electrical supply to the motor.

Quick release grilles provide access to the washable reticulated foam filters in both the extract and supply airflows.

The unit may be connected through a Vent-Axia Ambient Response Humidistat (Stock Ref. 563550), Ecotronic Humidistat (Stock Ref. 563532) or a Vent-Axia Humidiswitch (Stock Ref. 563501D) which will automatically switch the unit from trickle to boost ventilation when the relative humidity in the room exceeds a pre-set adjustable level. Alternatively for manual selection of the ventilation rate a Vent-Axia 3 Speed Controller (Stock Ref. 563532), a Vent-Axia 1.5A Variable Speed Controller (Stock Ref. 300310) or a proprietary Single Pole Two way Rocker or Pullcord switch may be used (see Fig. 5)

IMPORTANT POINTS TO NOTE

1. THIS APPLIANCE IS INTENDED FOR PERMANENT CONNECTION TO THE MAINS ELECTRICAL SUPPLY FIXED WIRING AND MUST BE INSTALLED BY A SUITABLY QUALIFIED PERSON.
2. THIS APPLIANCE MUST BE SITED AND CONNECTED IN ACCORDANCE WITH CURRENT UK BUILDING REGULATIONS AND IEE WIRING REGULATIONS (BS7671) OR THE APPROPRIATE NATIONAL REGULATIONS AND STANDARDS IN YOUR COUNTRY.

3. WIRING TO THE APPLIANCE IN THE UK MUST BE VIA A FUSED AND SWITCHED CONNECTION UNIT INCORPORATING A DOUBLE POLE SWITCH WITH 3MM CONTACT SEPARATION AND CONFORMING TO BS5733 OR BS1363 PART 4. A 3 AMP BS1362 FUSE SHOULD BE FITTED TO THE UNIT.
4. WARNING: THIS APPLIANCE IS CLASS 1 AND IT MUST THEREFORE BE EARTHED.
5. CHECK THE RATING LABEL ON THE APPLIANCE TO ENSURE THE ELECTRICAL SUPPLY IS COMPATIBLE WITH THE APPLIANCE WHICH IS RATED AT 220-240V 50Hz.
6. THE APPLIANCE MUST BE SITED AWAY FROM DIRECT SOURCES OF HEAT IN EXCESS OF 40°C.
7. DO NOT SITE THE APPLIANCE IN THE VICINITY OF EXCESSIVE LEVELS OF AIRBORNE OIL OR GREASE.
8. IF THE APPLIANCE IS INSTALLED IN A ROOM CONTAINING A FUEL BURNING APPLIANCE THE INSTALLER MUST ENSURE THAT AIR REPLACEMENT IS ADEQUATE FOR BOTH APPLIANCES.
9. THE EXTERNAL COWL OF THE APPLIANCE MUST BE SITED AT LEAST 600mm AWAY FROM THE FLUE OF A FUEL BURNING APPLIANCE.
10. ALL SAFETY REGULATIONS AND REQUIREMENTS MUST BE STRICTLY FOLLOWED TO PREVENT HAZARDS TO LIFE AND PROPERTY BOTH DURING AND AFTER INSTALLATION AND DURING ANY SUBSEQUENT MAINTENANCE OR SERVICING.
11. ENSURE THE MAINS ELECTRICAL SUPPLY IS SWITCHED OFF BEFORE COMMENCING INSTALLATION, MAINTENANCE OR SERVICING.

CABLE RUNS AND SITE PREPARATION (See Fig 1 and Fig 5)

1. Select a suitable electrical control arrangement, decide where to site the unit and work out the cable runs.
2. Mark out and cut a 250mm x 250mm hole through the wall selected.
3. Install the cable runs and appropriate controllers in conjunction with a fused and switched connection unit. Ensure the cable to the appliance extends sufficiently from the mounting hole in the wall to enable the appropriate electrical connections to be made within the terminal enclosure inside the appliance.

FITTING INSTRUCTIONS (See Fig. 1 and Fig. 5)

1. Remove the unit, frame and fixing pack from the carton.

2. Unscrew the captive grille surround retaining screws and remove the grille surround complete with the removable grilles.
3. Withdraw the heat exchanger from the housing.
4. **NOTE:** It is not necessary to remove the fan assembly from the housing to carry out the installation.
5. Locate the housing assembly in the mounting hole, and check that the flange around its internal open end is not held off the mounting surface by the threaded bushes located in the flange. Remove the housing assembly and if necessary clear the wall to suit these bushes and the screws which will project through them.
6. Offer the housing to the mounting hole and as the housing is being located in the mounting hole, feed the electrical supply cable through the cable entry hole, which is located in the top right hand side of the housing. Note that for the purpose of condensation drainage a prop is fitted to the underside of the housing to cause it to adopt a downwards tilt to the outside of the wall (See Fig 3).
7. Fix the housing assembly in the wall using suitable gap filler between it and the mounting hole. The housing can also be fixed to the wall through the holes in the housing side walls using suitable wood screws and wallplugs. Ensure the housing is not distorted and there are no internally protruding fixings.
8. Make good, if necessary, the internal and external wall faces.
9. Offer the frame to the housing and mark its' fixing hole positions on the external wall face. Remove the frame and drill the wall to accept suitable wall fixing plugs.
10. Slide the frame over the housing and seal it against the external wall face using silicone sealant or mastic. Fix it in position with suitable screws.

WIRING INSTRUCTIONS (See Fig. 5)

1. Ensure the mains electrical supply is switched off.
2. Remove the terminal enclosure cover after unscrewing the retaining screw.
3.  Remove the appropriate amount of sheath and insulation from the supply cable and leads. Slacken the cable clamp and pass the cable through the clamp. * Connect the conductors of the cable to the appropriate terminals of the terminal block in accordance with the appropriate wiring arrangement shown in Fig. 5.
4. Position the cable in the clamp such that the sheath is held and tighten the cable clamp nuts to secure the cable in position.
5. Replace the terminal enclosure cover and tighten the retaining screw.
6. Replace the heat exchanger.

7. Replace the grille surround complete with the removable grilles. and tighten the retaining screws.
8. Switch on the mains electrical supply and check the operation of the unit. (See Fig. 4).

SERVICING AND MAINTENANCE

Apart from removing odours, providing fresh air and recovering heat, this appliance extracts airborne impurities such as dust, dirt and grease. These gradually build up and detract from the efficiency and appearance of the appliance. Therefore, to ensure peak performance, the appliance should be cleaned regularly at periods determined by the level of contamination experienced, and according to the following procedure.

1. Switch off the mains electrical supply.
2. Release the catches on either side of the grille surround and remove the two filter holders.
3. Remove the filters from the filter holders.
4. Remove the grille surround after unscrewing its retaining screws.
5. Slide out the heat exchanger.
6. Wash the grille surrounds, filter holders, filters and Heat Exchanger in warm soapy water, using a mild detergent and subsequently dry them thoroughly. **KEEP WATER AWAY FROM ALL ELECTRICAL COMPONENTS AND WIRING INSIDE AND OUTSIDE THE APPLIANCE.**
7. Replace the heat exchanger.
8. Replace the grille surround and tighten its retaining screws.
9. Replace the filters in the filter holders.
10. Locate and snap the filter holders in the grille surround.
11. Switch on the mains electrical supply.
12. Check the operation of the unit (See Fig. 4).

Fig.1 GENERAL CONSTRUCTIONAL DETAILS

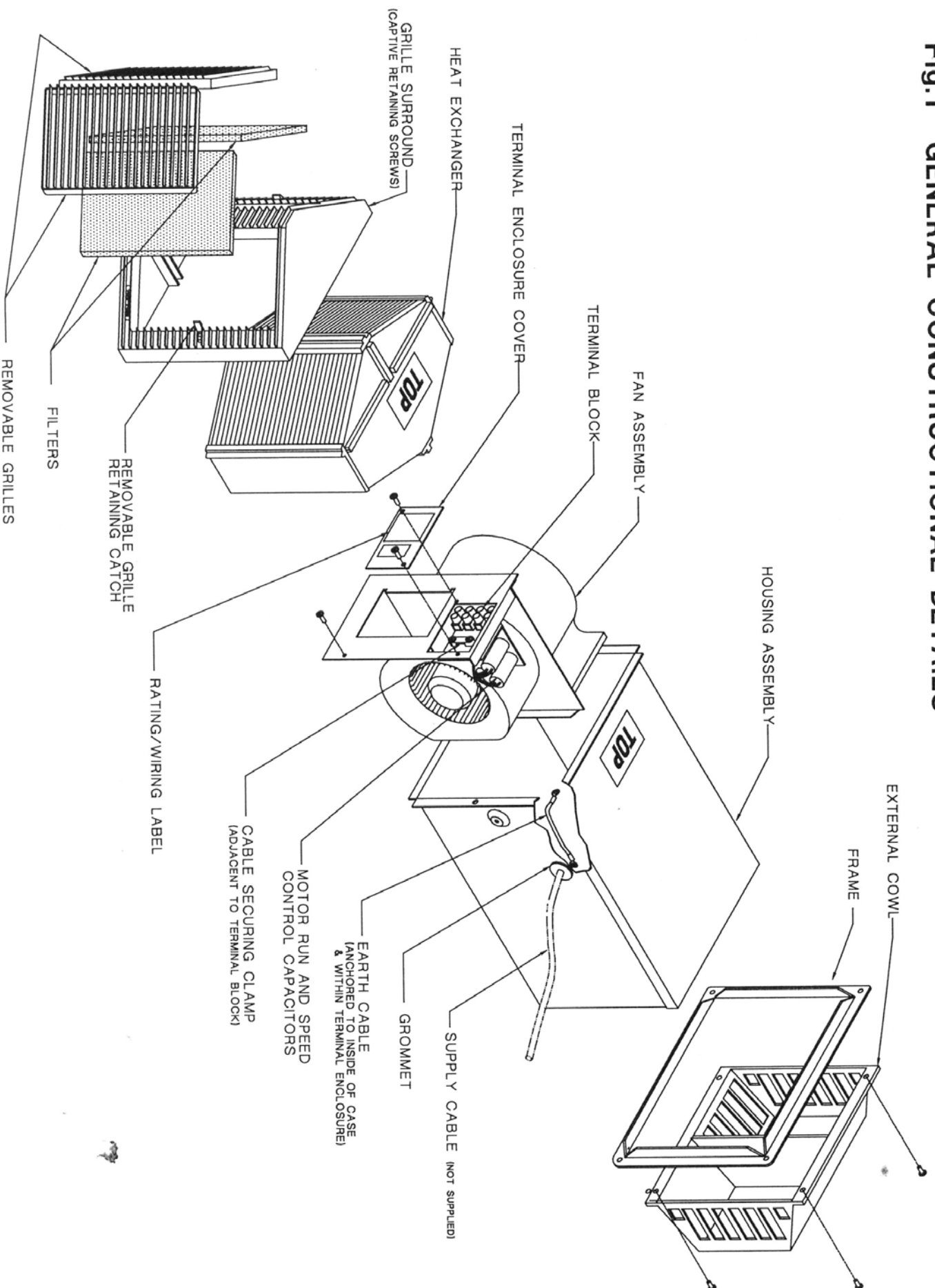


Fig. 2 DIMENSIONS

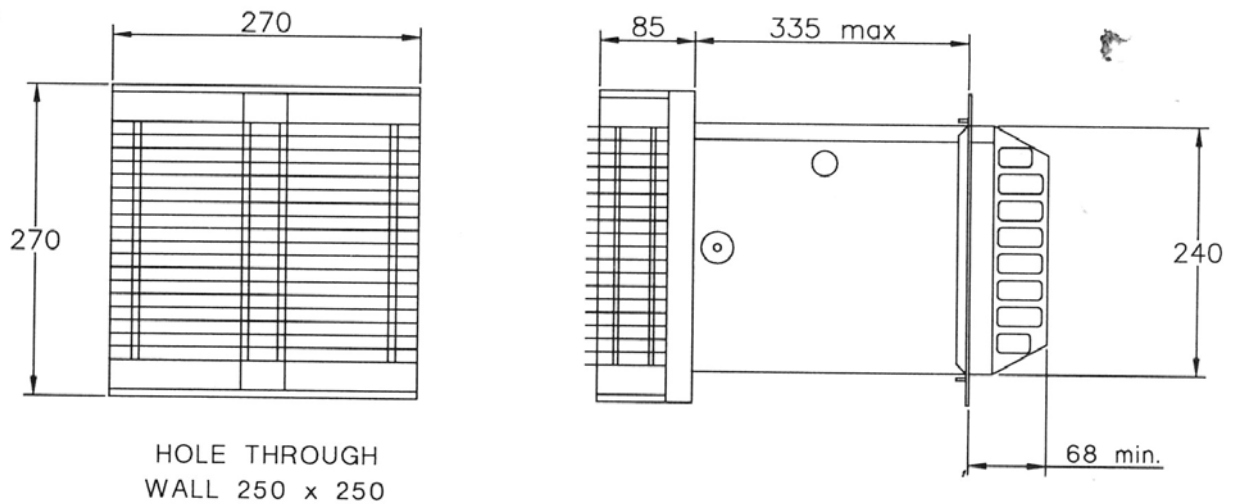


Fig. 3 SECTION THROUGH WALL

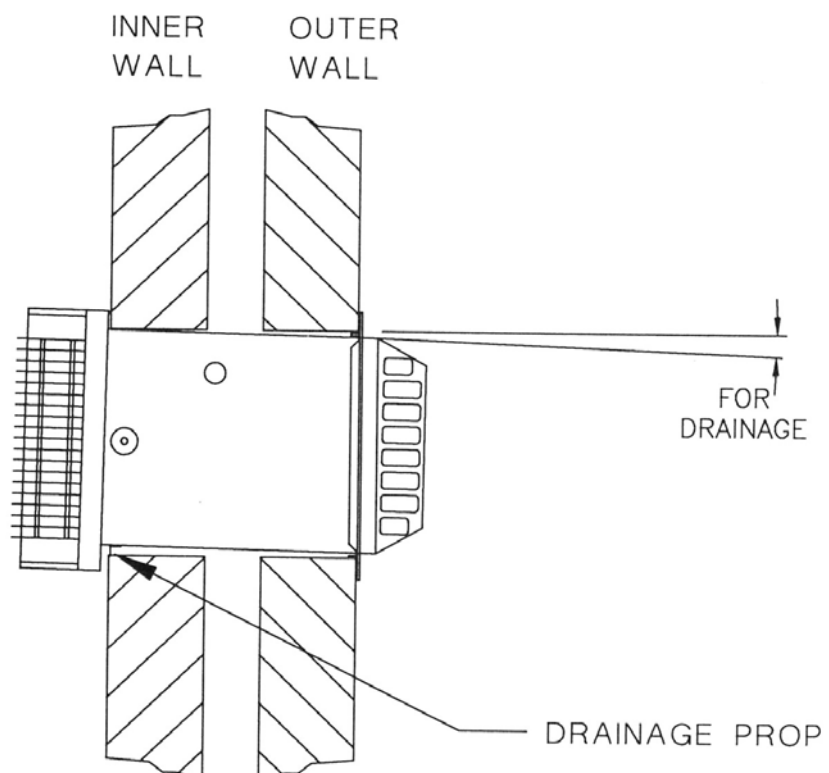


Fig. 4 AIRFLOW ARRANGEMENT

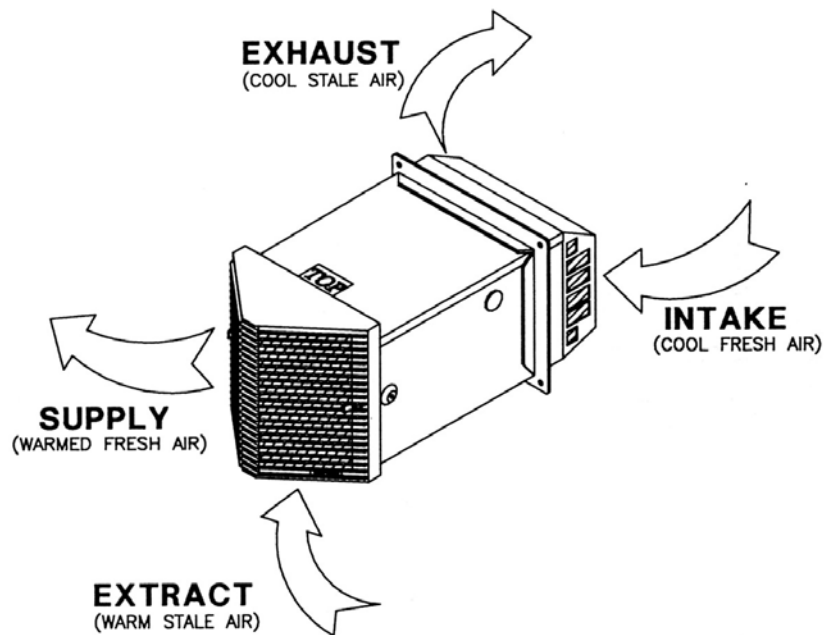
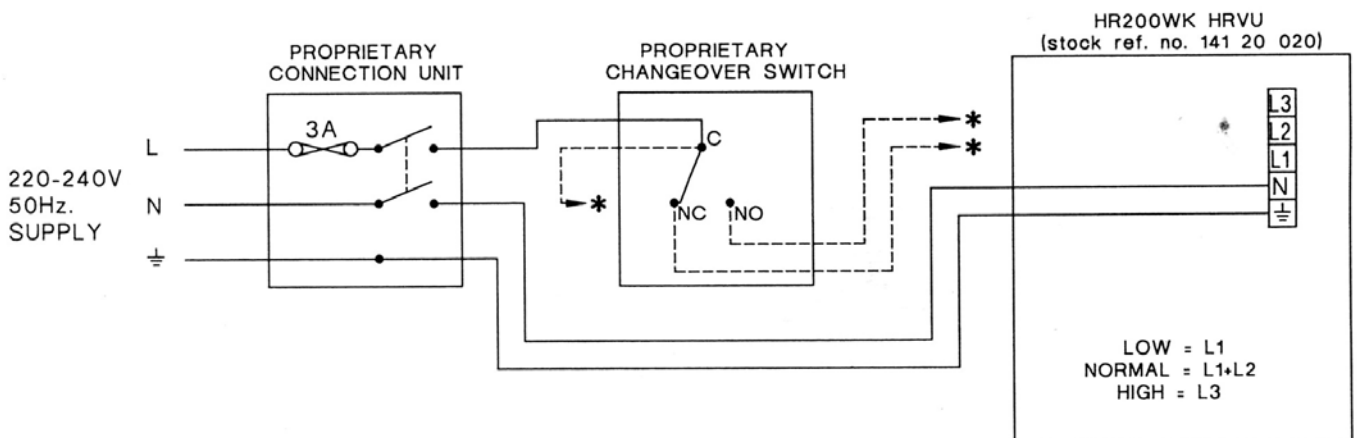


Fig. 5 INSTALLATION WIRING DIAGRAMS

Fig. 5.1 FIXED CONTINUOUS TRICKLE VENTILATION WITH MANUALLY ACTIVATED BOOST VENTILATION (3 SPEED COMBINATIONS)



* NOTE: TRICKLE LOW/BOOST NORMAL - CONNECT C TO NC, NC TO L1 AND NO TO L2
 TRICKLE LOW/BOOST HIGH - CONNECT NC TO L1 AND NO TO L3
 TRICKLE NORMAL/BOOST HIGH - CONNECT NC TO L1, L1 TO L2 AND NO TO L3

Fig. 5.2 3 SPEED MANUALLY ACTIVATED CONTINUOUS VENTILATION.

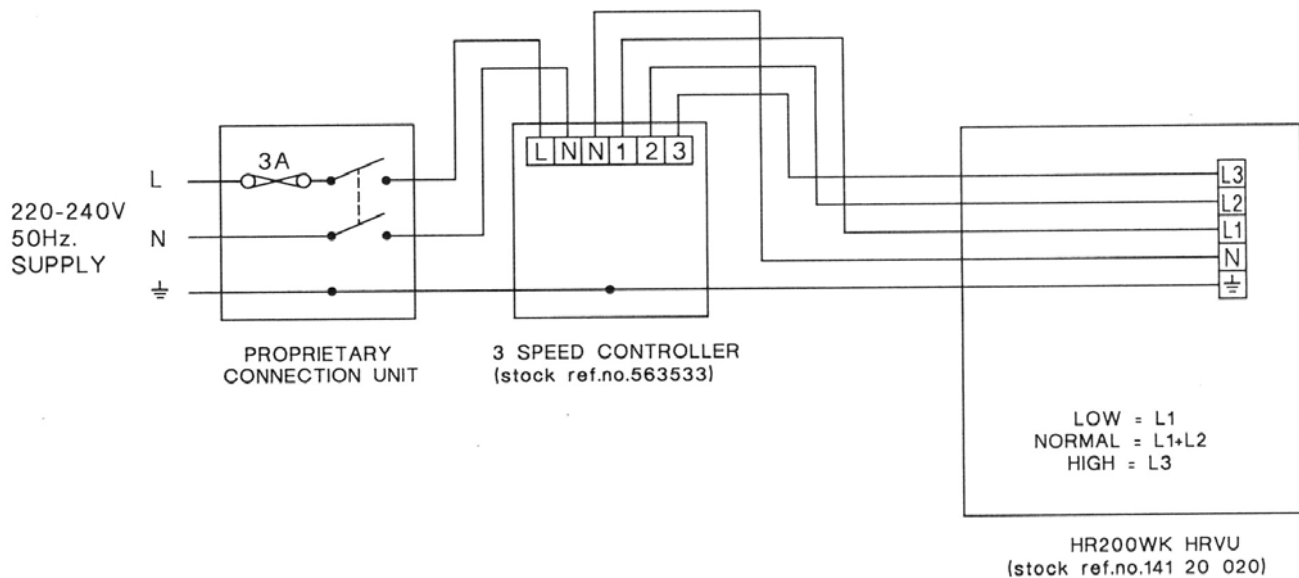
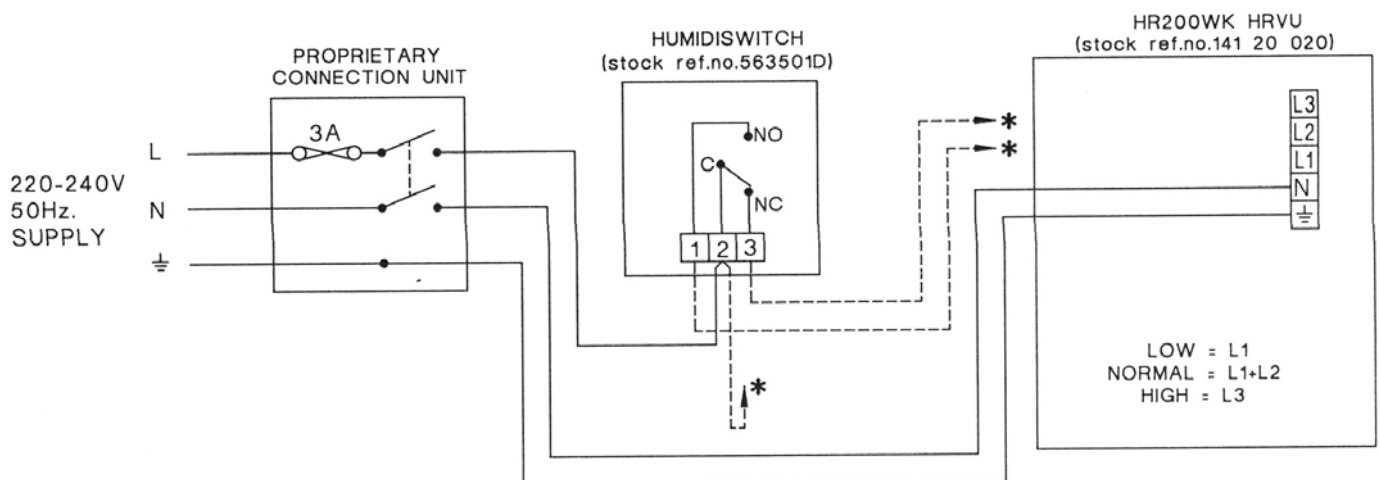


Fig. 5.3 FIXED CONTINUOUS TRICKLE VENTILATION WITH HUMIDITY ACTIVATED BOOST VENTILATION. (ELECTRO-MECHANICAL SENSOR AND 3 SPEED COMBINATIONS)



* NOTE: TRICKLE LOW/BOOST NORMAL - CONNECT 2 TO 3, 3 TO L1 AND 1 TO L2
 TRICKLE LOW/BOOST HIGH - CONNECT 3 TO L1 AND 1 TO L3
 TRICKLE NORMAL/BOOST HIGH - CONNECT 3 TO L1, L1 TO L2 AND 1 TO L3

**Fig. 5.4 FIXED CONTINUOUS TRICKLE VENTILATION WITH HUMIDITY ACTIVATED BOOST VENTILATION.
(ELECTRONIC SENSOR AND 3 SPEED COMBINATIONS)**

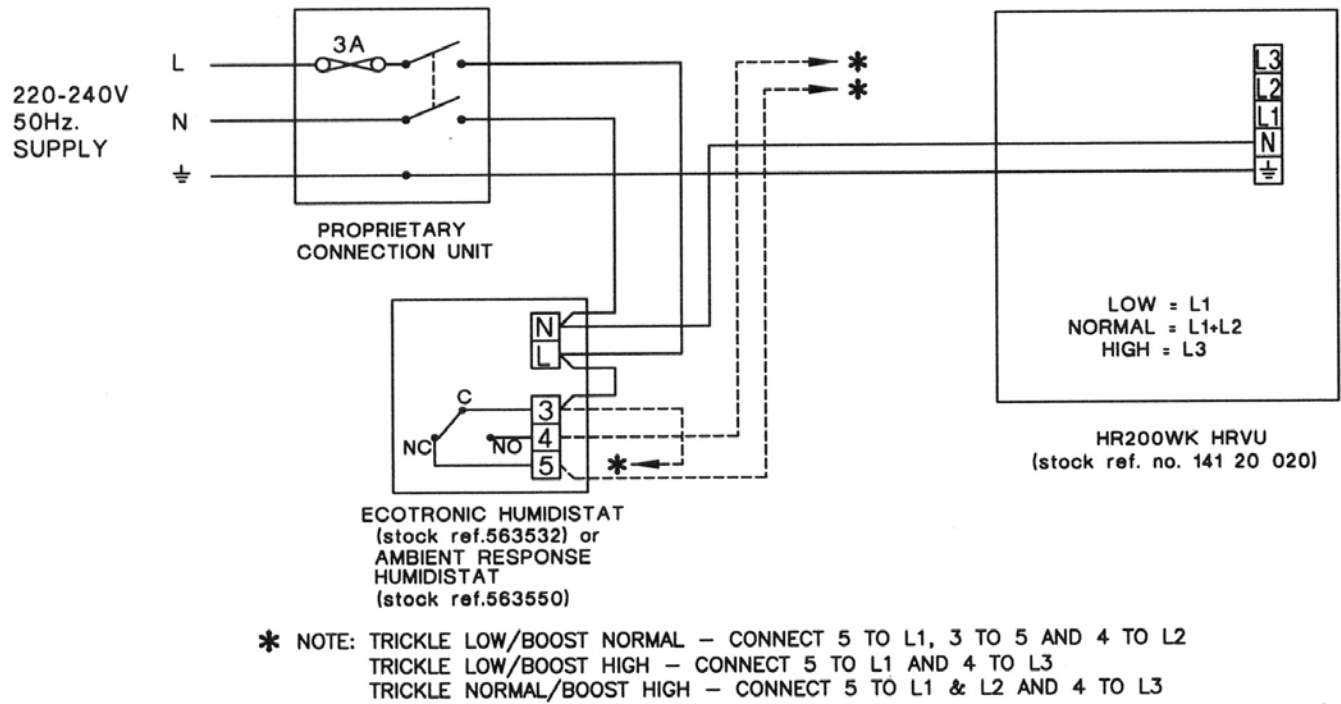


Fig. 5.5 VARIABLE CONTINUOUS VENTILATION

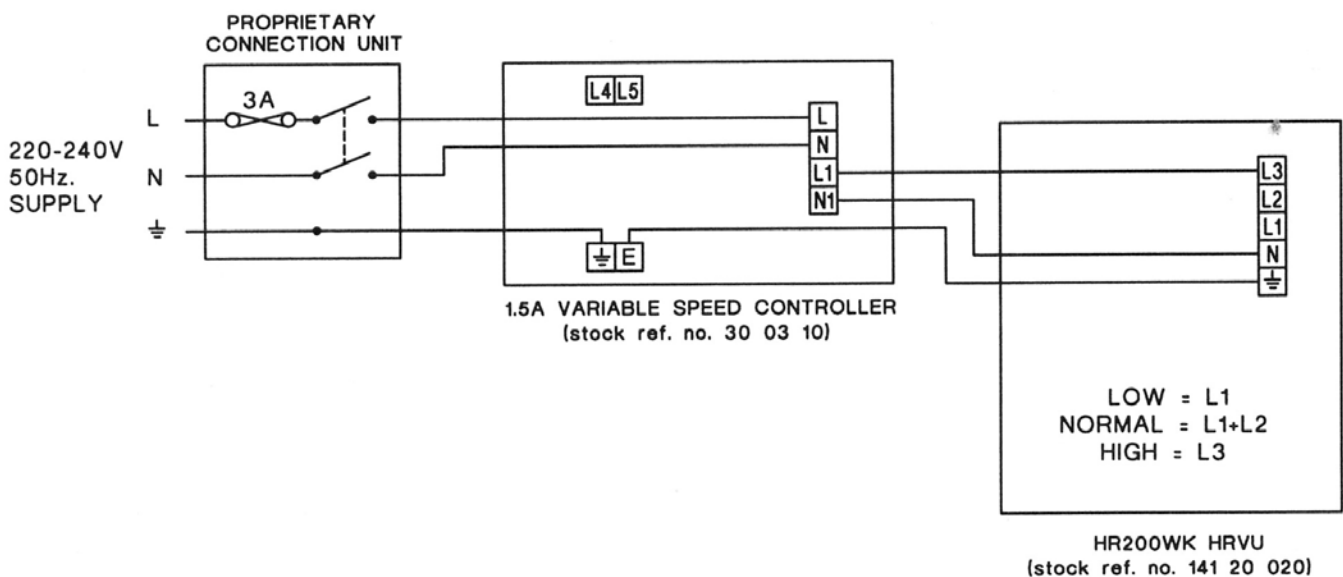


**Fig. 5.6 VARIABLE HUMIDITY ACTIVATED VENTILATION
(ELECTRO-MECHANICAL SENSOR)**

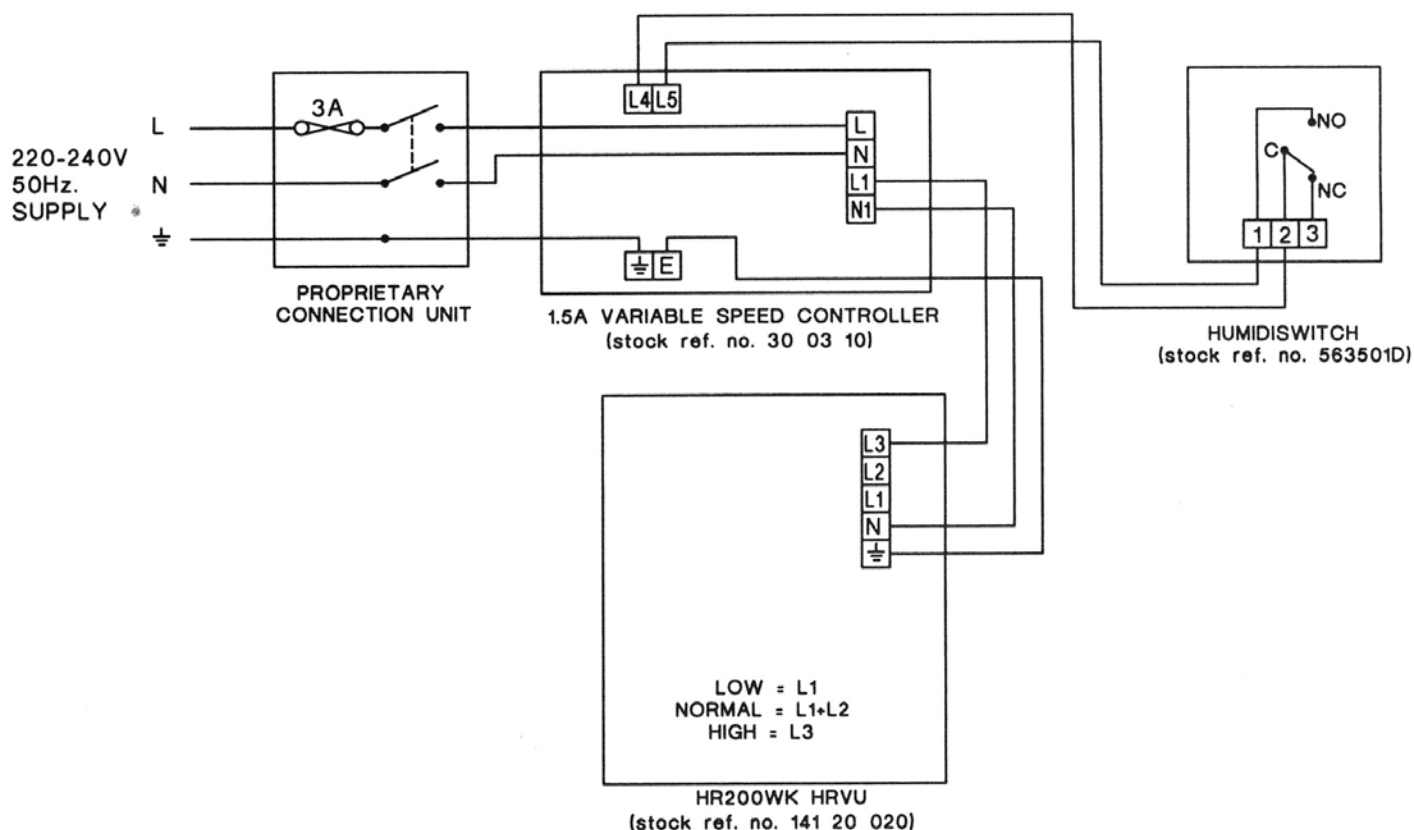
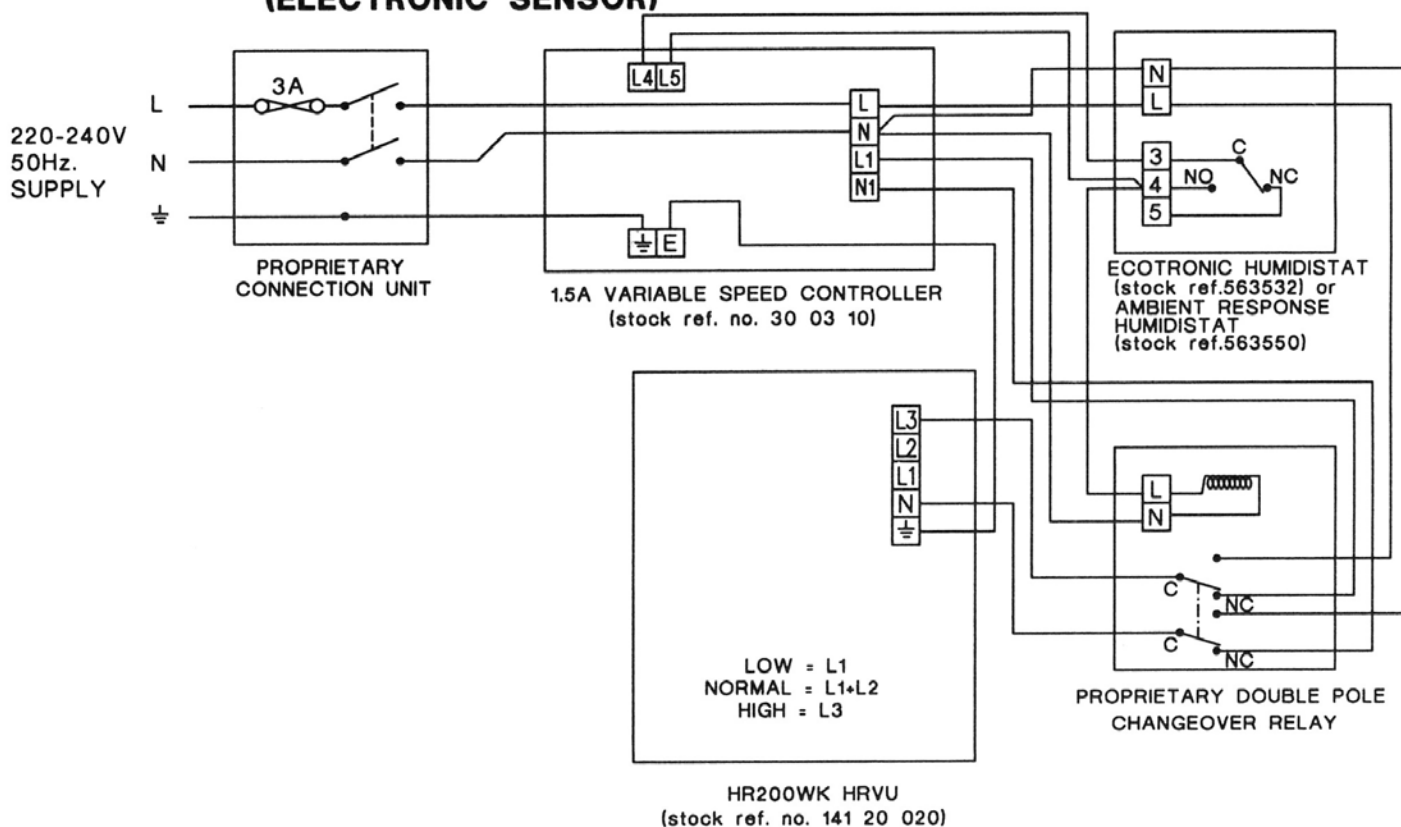


**Fig. 5.7 VARIABLE CONTINUOUS TRICKLE VENTILATION WITH
HUMIDITY ACTIVATED BOOST VENTILATION.
(ELECTRONIC SENSOR)**



VENT-AXIA SALES CENTRES

ENGLAND & WALES NATIONAL CALL CENTER

Newton Road, Crawley
West Sussex
RH10 9JA

Telephone: 01293 530202
Fax: 01293 565169

NORTHERN IRELAND

Telephone: 02890 402220
Fax: 01293 565169

SCOTLAND

Telephone: 0141 429 1166
Fax: 01293 565169

REPUBLIC OF IRELAND

Vent-Axia Ventilation Ltd.
921 Western Road Industrial Estate
Naas Road, Dublin 12.

Telephone: (01) 450 4133
Fax: (01) 450 4570

Did you find these instructions easy to use?

We value your comments, contact us via :

Email: info@vent-axia.com

• • • • • 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 one year from the 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:
 - 1) has been installed and used in accordance with the instructions given with each unit.
 - 2) 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.)
 - 3) has not been subjected to misuse, neglect or damage.
 - 4) 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 affect your legal rights.

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

Vent-Axia®

Head Office: Fleming Way, Crawley, West Sussex RH10 9YX
Tel: 01293 526062 Fax: 01293 551188

Printed by Jet Printing, Crawley



Recycled
paper