5.0 Electrical Connection

IMPORTANT

For good EMC engineering practice, any sensor cables or switched live cables should not be placed within 50mm of other cables or on the same metal cable tray as other cables.

Please note: the electrical connection of the unit must be be carried out by a qualified electrician.

The unit is supplied with a flexible cord for connection to the mains supply.

Electrical details:-

Voltage: 240V 1ph 50Hz

Consumption: 1.3 Amp

Fuse rating: 3 Amp

NOTE This unit must be earthed.

The cable from the mains power supply should be connected to a fixed wiring installation, via a fused isolator, in accordance with current IEE wiring regulations.

Figure 11a.

Note: Wiring is for reference purposes only as the connections in fig. 11a are factory fitted. The unit is pre-wired with a 2 metre fly lead.

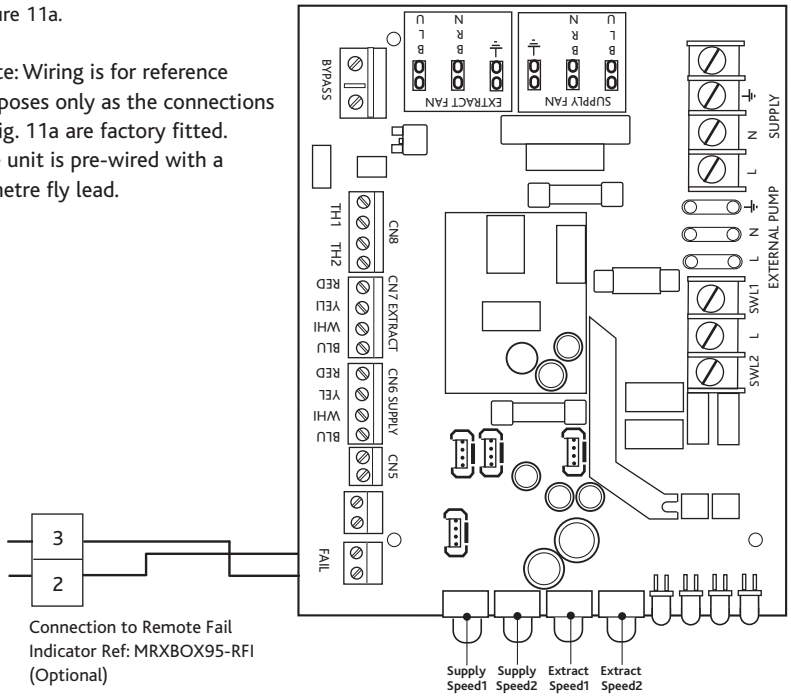
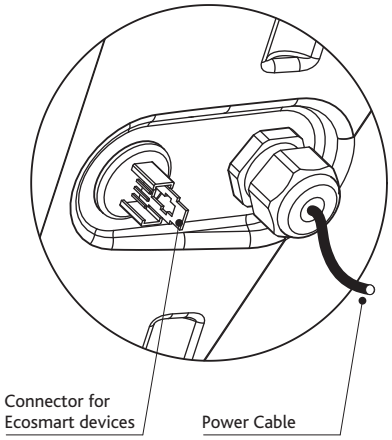


Figure 11b. If an Ecosmart device is to be connected the removable cover found next to the power cable exit on the base panel of the enclosure should be removed by loosening the two screws, the Ecosmart cable can then be connected to the underside of the MVHR unit within (fig 11b). The cable should be fed through rubber blanking plug to provide a seal when the cover is re-fitted.

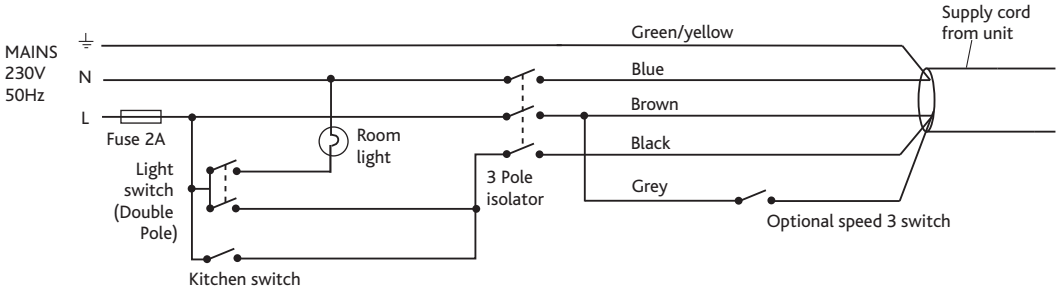


If more than one Ecosmart sensor is required please use MRXBOX-JB and refer to leaflet No. 671700 for installation instructions.

Unit serving kitchen and bathroom

Figure 12.

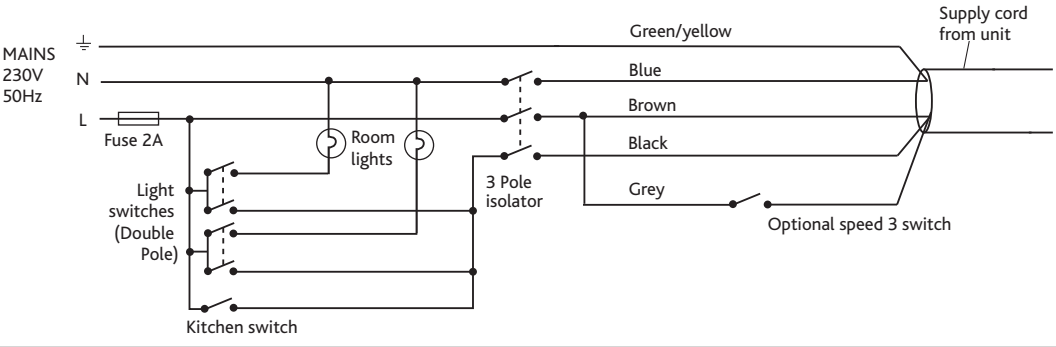
Disconnection from the supply mains must be incorporated within the fixed wiring in accordance with the wiring regulations and shall have a minimum contact separation of 3mm.



Unit serving kitchen and two bathrooms

Figure 13.

Disconnection from the supply mains must be incorporated within the fixed wiring in accordance with the wiring regulations and shall have a minimum contact separation of 3mm.



5.1 Optional Controls **For further information contact Nuaire on 029 2085 8400.**

6.0 Commissioning

All infomation on this page is specific to the MVHR unit fitted inside the enclosure, the front panel of the enclosure must be removed to gain access.

IMPORTANT

The filters fitted inside the unit are protected with a plastic film. Prior to commissioning remove the covers (fig 15), take off the film and replace.

2/ For the required air flow rates please refer to the design specification for the property, follow 2.4, or refer to building regulations ADF 2010.

3/ The unit is supplied with independent control for both normal and boost airflows. (see fig. 14).

4/ Correct commissioning is essential to ensure the ventilation air flowrates are met. It also ensures the unit is not over ventilating and causing excessive power consumption.

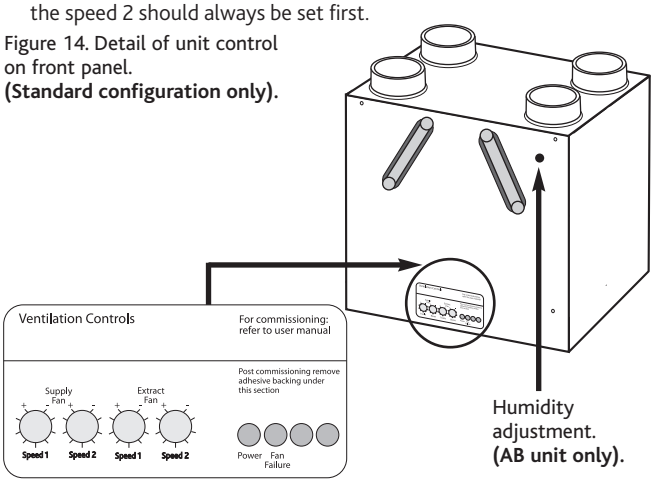
5/ Commissioning should be carried out in accordance with building regulations document "Domestic ventilation compliance guide". **www.planningportal.gov.uk/building regulations/approved documents/partf/associated.** A calibrated moving vane anemometer and hood will be required to carry out commissioning.

6/ Adjustment valves should be locked in place to prevent further adjustment.

7/ Once commissioned the home owner / tenant should be informed that the unit should not be adjusted as it will have a detrimental effect on the indoor air quality and could result in condensation and mould growth. The label covering the control has an adhesive panel which should be removed post commissioning to prevent tampering.

8/ Speed 1 is limited to never exceed the speed 2, when commissioning the speed 2 should always be set first.

Figure 14. Detail of unit control on front panel. **(Standard configuration only).**



6.1 Speed 3

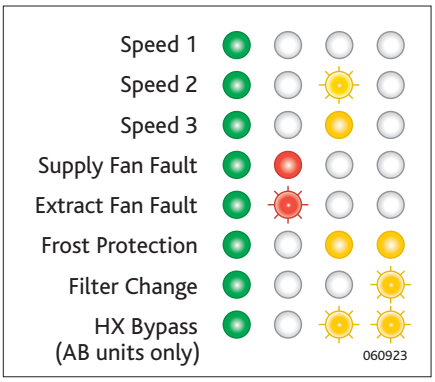
The unit has to ability to override both speed 1 and speed 2 to operate the fan to maximum airflow. See wiring diagram for details of operating this facility.

6.2 Humidity adjustment (AB unit only).

This product contains an internal humidity sensor fitted into the airflow extracting from the wet rooms. When the unit senses that the humidity exceeds the set point the unit will boost to that set by the commissioned boost speed. The set point can be found on the front of the unit (see Fig. 14) and is at its least sensitive when turned fully clockwise. Note that the sensor is measuring humidity from all the wet rooms at the same time and should not be relied on to solely boost the unit. Additional switch should be used local to the wet rooms (see wiring diagrams).

7.0 Status Indication

The status of the unit is indicated by a series of LED's on the front cover. The varients are listed below.



8.0 Thermal Bypass (Non AB models)

In the event of excessive outside temperatures, and to help prevent over-heating, the supply fan will automatically reduce to a trickle speed. Under these circumstances additional ventilation measures may be required e.g. open windows or trickle vents (if fitted).

9.0 Maintenance/Cleaning

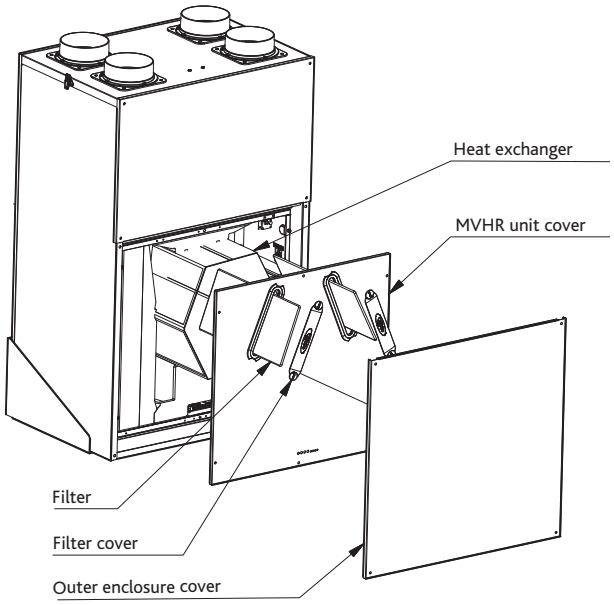
IMPORTANT

Isolation - Before commencing work make sure that the unit, switched live and Nuaire control are electrically isolated from the mains supply and switched live supply.

We recommend that the two G3 fiters are inspected after 6 months, and replaced every 12 to 18 months. The filters can be removed from the unit by removing the two filter covers on the front panel of the unit. Take hold of the two circular tabs either end of the filter covers and pull out.

The filter can now be extracted by pulling the removal loop on the front edge of the filter. Once the filters have been inspected return or replace them as necessary. Inspect the heat exchanger every 5 years. Generally check for damage and security of components. Refit cover.

Figure 15. Removing the two filter covers on the front panel of the unit. The filters can be removed by pulling on the black tab on the visible end of the filters.



10.0 Replacement of Parts

Should any component need replacing Nuaire keep extensive stocks for quick delivery. Ensure that the unit is electrically isolated, before carrying out any work.
Note: The supply cable must be replaced by an electrically competent person.
When ordering spare parts, please quote the serial number of the unit and the ARC number of the purchase if possible.
(This information will be available on the fan label).

11.0 Warranty

The 5 year warranty starts from the day of delivery and includes parts and labour for the first year and parts only for the remaining 4 years.

This warranty is void if the equipment is modified without authorisation, is incorrectly applied, misused, disassembled, or not installed, commissioned and maintained in accordance with the details contained in this manual and general good practice.

The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

12.0 After Sales Enquiries

For technical assistance or further product information, including spare parts and replacement components, please contact the After Sales Department.

Telephone 02920 858 400